**ATD ONLINE SYSTEMS**

By

TAN YUNG ANN

A REPORT

SUBMITTED TO

UNIVERSITI TUNKU ABDUL RAHMAN

IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

FOR THE DEGREE OF

BACHELOR OF INFORMATION SYSTEMS (HONS)

INFORMATION SYSTEM ENGINEERING

FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY

(PERAK CAMPUS)

MAY 2018

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# DECLARATION OF ORIGINALITY

I declare that this report entitled "**ATD ONLINE SYSTEMS**" is my own work except as cited in the references. The report has not been accepted for any degree and is not being submitted concurrently in candidature for any degree or other award.

Signature      :      _____

Name           :      \_\_\_\_**TAN YUNG ANN**\_\_\_\_\_

Date            :      _____

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Not to forget, the company directors of ATD SALES & SERVICES which supported me to develop a system for their company. They provided me necessary information with an open minded during the process of system development with transparency. I would like to thanks all of my friends and the people who directly or indirectly helped me in developing this ATD ONLINE SYSTEM. Thank you very much once again.

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# ABSTRACT

Nowadays, a lot of corporations and companies with convenience of fast expanding internet facility, provide better service to customer and improve productivity greatly. Internet based online shopping computerized system can improve organization management and arrange online commerce system for more effectively and accurately. This project aims to design an online shopping system namely "ATD ONLINE SYSTEMS". This system is developed to replace the manual system which is used manual trading to purchase, record and store the data. Furthermore, this system was developed mainly using HTML 5, Adobe CS6 Dreamweaver. CSS 3 Cascading Style Sheets and PHP Hypertext Preprocessor for server-side scripting language. Meanwhile, phpMyAdmin of XAMMP is used for the database development and allow testing the website at local computer without access server from internet. Database should be designed and stored permanently in a more secure way to prevent the data from lost. This ATD ONLINE SYSTEMS should improve the booking process in a more accurate and efficient way. At the same time, customers booking status and customers profile must be recorded in a more secure and systematically.

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# LIST OF ABBREVIATIONS

GST      Goods Service Tax

CC Camera    Closed Circuit Camera

B2B      Business-to-Business

HTML     Hypertext Makeup Language

CSS      Cascading Style Sheets

SEO      Search Engine Optimization

CMS      Context Management System

URL      Uniform Resource Locator

HHVM     HipHop Virtual Machine

SDLC     Systems Development Life Cycle

ERD      Entity Relationship Diagram

PHP      Hypertext Preprocessor

JS       JavaScript

# CHAPTER 1: INTRODUCTION

## 1.1    Problem Statement

ATD SALES & SERVICES (ATD) urgently need a website to perform their online sales. They encounter difficult and costly to update products and services information in a printed brochure or catalogue. They need an online website brochure and catalogue for easy update their products and services information.

Provide convenience for visitors and customers to review from website for latest products or services when ATD physical store is closed on Sunday or public holidays. Provide online product specification and user manual information for certain products or services. Able to display company latest products or illustrate company professional skills. Website consists of company portfolio, customer video testimonials and photo gallery can demonstrate what makes ATD unique. Lastly, ATD need a Customer Relationship Management module to keep in touch with their customers and increased sales through promotion.

**ATD** stands for **Advanced Technology Distribution**, which dealing and distribute latest technological products. ATD SALES & SERVICES (ATD) is a partnership company established in 2002 as an Office Equipment & Business Software dealer. During these 16 years, they provide sales & services of advance office equipment such as Copier, Electronic Cash Register, CC Camera System, Fax Machine, Finger Print System, Point of Sales Barcode System and Accounting Software. In addition, ATD also dealing with sales and services of computer hardware such as keyboards, printers, computers, barcode scanner and others. Due to the rapid growth of using Point of Sales system in Malaysia, ATD require a good online shopping website to promote their software and others computer peripherals. That is why ATD need an impressive online shopping website to carry out online shopping business.

## 1.2    Background information

Before internet becomes popular in the world, for many decades development of many telecommunication equipment and internet related technology had already been broadly existed in the market. For example, in 1965, 1$^{st}$ WAN (wide area network) was launched. Around 1983, 1$^{st}$ LAN (local area network) also developed. For many decades, many new transmission cable (coaxial, twisted pair and fiber optic) had been in the rapid development. Berner Lee's model compile with new website technologies to launched the first new era modern website. Development in website related technology quickly raised up due to new era website deployed in the internet.

Today, there are millions of web pages around the world, but 20 years ago little of them existed. Tim Berner Lee deployed the world first web page on August 6, 1991 for World Wide Web (WWW) Community. WWW was developed based on technology from a NeXT lab computer.

WWW Community explains how to create Web pages and introduce what it means by hypertext.  In the fast expanding world of internet, millions of computers were being easily connected together. Tim Berners-Lee used hypertext technology to share information.

In October 1990, Tim introduced 3 basic technologies to form today website technology. These include HTTP, HTML and URL. First website launched on the internet at the end of 1990. In 1991, public were invited to join the WWW community. When website expand rapidly, Tim suggested that internet service should be free usage for anyone from anywhere in the globe. Furthermore, Tim recommended that no need for any users to ask for permission to use it.

During early 21$^{st}$ century, website development become more popular involve into living of people in the world every day. With rapid progress in website development, the technology of the website has also force to move on aggressively. Due to the significant changes in the way people access and use the website, this will influence how websites to be design according to modern user taste.

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After many years of web browsers wars, finally the end of the browsers wars arrived. Many new browsers have been developed and launched. A lot of these browsers are open source. This means that open source browsers tend to enjoy faster development and open source browsers are more supportive of new standards and regulations. Many website users are satisfied and happy with these new browsers options and they said these open source browsers are to be better than Microsoft's Internet Explorer.

The website development advanced tremendously in recent years. This is because following government decision to promote and play important role in the website development. More and more website foundation form to support the internet services and this lead to internet services to became the main channel for telecommunications.

With a lot of computer hardware improvements and better network service provider provide cheaper and faster broadband networks with greater bandwidth, website development enabling web designers to include with an array of multimedia for better website performance. Adobe CSS (Cascading Style Sheets) improved website design features and organize website content neatly. Adobe Flash provides animation to website design. Adobe Illustrator video streaming provides people with many good motion pictures. Even with so many website revolutions and progressions in website development, but the basic web page interface and structure has to be maintained its integrity and balance of function.

**Conclusion for Background Information**

After so many years of website development innovation, now modern new website page has slowly modified shape to support its various new contexts. Recently, a lot of mobile app could finally substitute the website page as we use to know it. But mobile app still obtains much of its basic properties from basic website design concepts through the innovated website development discipline.

Invention of smart phones and mobile devices introduce new concept about the website. This has changed the ideology of how people think about the website design compare in the past. In early 2007, most websites developed were not "mobile-friendly" enough in nature and not follow any standard. Furthermore, accessing the website on a mobile device was often cause a lot of problems and frustrating. This enforced website developers to venture into mobile web design technology to create a better mobile web design. Mobile web design posed out many questions, this include should a mobile site be scaled down? should we create standards for mobile? and how to increase the speed for users to save data? For the new mobile web world, Bootstrap and Foundation became the base for mobile web design.

As the number of mobile internet users increased, mobile design became No.1 in the website industry. In 2010, a web designer named Ethan Marcotte challenge using different approached to develop mobile website design. He proposed other than using a different mobile page, he maintains original of the website content yet apply in different ways of the website design layouts and implement website according to the device screen size. This type of innovative website design technology is called Responsive Design.

From a technical point of view, we still encourage website developer to use HTML and CSS for designing website. It is just a conceptual design advancement. Responsive Design important benefit is the content parity, which provide the same website everywhere at any platforms.

### 1.3 Motivation

The aim to develop **ATD Online Systems** is for ATD SALES & SERVICES to conduct online sales This project gives me an opportunity to learn more about website designing extra techniques which are not covered in lectures. In addition, this project provides me with a platform to proof how good is the quality of my services to customer. If I can develop this website successfully, it will encourage me to venture into website related industry after I graduated.

Furthermore, in order to carry out this project, all expenses incurred will be sponsored by ATD SALES & SEVICES and a token of money will be given to me as a gift for helping them to develop their website.

**1.4    Project Objectives**

This project purpose is to implement a website to increase its user experience and usability. To **increase website sales** or **traffic** is the main marketing goals. ATD website must make visitors sacrifice their precious time and let them decide on the next step (to make enquiry, buy online, etc). Website should help ATD customers and have clearly prioritized objectives.

To ensure ATD website with quality content, easy to use, quick download and easy frequently update.

**1.4.1    Goal and Sub-Objective**

**Goal 1: To increase website sales.**

Objectives: Establishing trust, user-friendly site, search engine optimization, effective calls to action and well-organized content.

**Goal 2: Becoming a reliable and trusted resources.**

Objectives: Marketing ATD site in other websites, design attractive content and constantly update latest information, setup trust between customers and promote in a series of social media.

**Goal 3: Learn about ATD website users**

When people visit ATD website, ATD can use a tool like Google Analytics to track what users are doing. Google Analytics will allow ATD to collect the following information:

- How many visitors ATD getting
- How long visitors are spending on ATD website
- What pages visitor looking at and how long they're looking at them
- Which links visitors are clicking on
- Which pages visitors are spending the most time on

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- Which pages visitors spend the least amount of time on or which pages visitors view before leaving ATD website.
- Others.

By using Google Analytics, ATD can successfully analyzing the habits of ATD users and identifying the areas of ATD website that are working well. Along with the weak areas that might need to be improve further. Actions include removing the links or pages that no visitor clicks on or making each page more user-friendly.

## 1.5    Project Scope

To quickly reconquer the market from all the new and old competitors, ATD website must be welcoming design and acceptable by all parties.

In order to success on E-commerce business, ATD must plan list of goals which can be achieve, objectives can be measurable and keep website visitor in priority. ATD goal isn't to have a website full of text, photos and features all about the company. The goal is to **motivate ATD visitors** to take the next step, call, submit a web inquiry, searching needed products, buy online, etc. The website features and pages design must serve this goal.

**1.6    Proposed approach / study**

**Framework**

The framework is a step-by-step development of a system until the system successfully developed. Figure 1.01 shows the framework of ATD ONLINE SYSTEMS.

```
┌─────────────────────────────────────────────────────────────┐
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Do a suggestion for titling project and approval to     │ │
│  │  start the project                                       │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Identify the problem and do some research and interview │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Discussion with ATD owner Mr. Andy Lau                  │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Make a research on system to be developed               │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Design database for ATD ONLINE SYSTEMS                  │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Design interface for ATD ONLINE SYSTEMS                 │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Develop the proposed system that have been placed       │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Improve and maintain the system in testing and          │ │
│  │  implementation phase                                    │ │
│  └─────────────────────────────────────────────────────────┘ │
│                            ↓                                  │
│  ┌─────────────────────────────────────────────────────────┐ │
│  │  Deployed ATD ONLINE SYSTEMS                             │ │
│  └─────────────────────────────────────────────────────────┘ │
└─────────────────────────────────────────────────────────────┘
```

**Figure 1.01:  ATD ONLINE SYSTEMS Framework.**

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## 1.7 Impact, significance and contribution

ATD SALES & SERVICES (ATD) recently faces a stiff competition from old and new competitors in the same industry. ATD old loyalty customers run away from ATD website because of many modern competitors stylish-looking website. ATD urgently need a good design website with Customer Relationship Management module to keep old loyalty customers and to convert prospects to be new customers.

ATD needs a good website to upgrade their brand and improve the presence on the website. The new develop website should be able to serve prospective clients and the same time to support current ATD customers.

Furthermore, ATD wish to has a website which can be maintain by ATD website management team. They can regularly make changes without engage any website designer. They can add or update any photos and text if needed.

**1.8    Highlight of what have been achieved**

I successfully developed a website for ATD SALES & SERVICES namely ATD ONLINE SYSTEMS. This website already went thru Implementation and Testing. Below are some of the web pages and databases developed.

**General Website Pages:**
1. Main Page
2. Product Page
3. Accessories Page
4. Point of Sales Page
5. Introduction Page
6. Our Location Page
7. Payment Guide Page
8. Customer Feedback Page
9. Link to Facebook Page
10. Link to WhatsApp Page
11. Link to Messenger Mobile Page
12. Link to Live Chat Services Page

**Member Site Pages:**
1. Member Account Main Page
2. Member Sign Up Login Page
3. Member Login Page
4. Member Shopping Cart Page
5. Member View Order Page
6. Member Profile Page
7. Edit Member Profile Page
8. Member Proof of Payment Page
9. Member Review Feedback History Page

**Customer Site Pages:**

1. Customer Select Product Add to Cart Page
2. Customer Edit My Profile Page
3. Customer View My Account Page
4. Customer Order List Page
5. Customer Detail List Page

**Admin Site Pages:**

1. Admin Main Page
2. Admin Login Page
3. Admin Manage User Page
4. Admin Add User Page
5. Admin Manage Customer Page
6. Admin Manage Contact Page
7. Admin Manage Orders Page
8. Admin View Order Page
9. Admin Remove Order Page
10. Admin View Delivery Status and Receipt Detail Status Page
11. Admin Manage Feedback Page
12. Admin Manage Supplier Contact Page
13. Admin Manage Product Page
14. Admin Manage Point of Sales Page
15. Admin Manage Accessories Page
16. Admin Manage Interface Page
17. Admin Manage Product Content Page
18. Admin Manage Banner Page
19. Admin Manage Best Seller Page
20. Admin Manage Member Registration Page
21. Admin Manage Member Account Recovery Page
22. Admin Manage Sales Report Page
23. Add More Admin Form Page

**Database Created:**

1. Website Rating Table (tbl_plus2net_rating)
2. Accessories Table (tbl_access)
3. Admin Table (tbl_admin)
4. Admin Feedback Table (tbl_admin_feedback)
5. Banner Table (tbl_banner)
6. Best Seller Table (tbl_best_seller)
7. Member Contact Table (tbl_contact)
8. Product Content Table (tbl_content)
9. Feedback Table (tbl_feedback)
10. Order Table (tbl-order)
11. Accessories Order Table (tbl_order_access)
12. Order Detail Table (tbl_order_detail)
13. Special Order Table (tbl_order_special)
14. Point of Sales Table (tbl_pos)
15. Product Make Table (tbl_products_make)
16. Product Name Table (tbl_products_name)
17. Product Type Table (tbl_products_type)
18. Proof of Payment Table (tbl_proof)
19. User Table (tbl_user)
20. User Level Table (tbl_user_level)

## 1.9 Report organization

The details of this project are written in the following chapters:

### Chapter 1:

Introduction of this project including: Problem Statement, Background and Motivation, Objectives, proposed approach/Study, highlight of what have been achieved and Report organization.

### Chapter 2:

Literature Review inclusive of: Review Introduction, Modern Trend of Web Development, Web Quality Factors Review, Review Concluding Remarks, Review Website Samples, Comparison between 5 existing system with ATD system, Functionalities proposed for ATD and Summary of literature review.

### Chapter 3:

System Design inclusive of: Software and Hardware Requirement, Entity Relationship Diagram, Data Flow Diagram, Context Diagram, Flow Charts, Logical System Design, Physical Design, Implementation Issues and Challenges and Timeline & Gantt Chart.

### Chapter 4:

Methodology inclusive of: Type of Methodology, Waterfall Model phases: Planning, Analysis, Design, Coding, Testing & Implementation and Support.

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**Chapter 5:**

Tools and Technologies inclusive of: tools like: HTML, CSS, AJAX, JavaScript, Flash and jQuery.

**Chapter 6:**

Implementation and Testing inclusive of: Discussion for implementation status and testing carry out for various web pages, carry out Unit Testing and carry out User Accepting Testing.

**Chapter 7:**

Conclusion and Discussion inclusive of: Project review, what has been achieved, future work, improvement and development.

Follow by References and Appendices.

# CHAPTER 2: PROJECT LITERATURE REVIEW

## 2.1    Literature Review Introduction

With steady development in web technologies in modern world, website go thru a transition period, from simple static websites to dynamic websites, vast multimedia websites, can interact with web visitors in a fascinating way. Modern web user demand high expectations from web development. Web innovation need to balance between the aim of the web page and the interface with the expectations of the visitors. In order to fulfill requirements and need of web user, design for User Centered is introduced.

## 2.2    Modern Website Development Analysis

Website industry development growing rapidly in recent year. A totally modern web industry exists due to the tremendous growth of web users. In the past few years, we noticed that there is a huge increased in number of domain name registrations and website development companies. There are many reasons for this, but one of the reasons of this increase is that there are many Open Source platforms to encourage website development. Also, there are many modern website development tools available in the market.

Web development open source software (MySQL, Apache, Linux and PHP) are distributed free to website developer. Another factor contribute to the growth of websites is due to the popular use of web development software tools such as What You See Is What You Get (WYSIWYG). Example of WYSIWYG software are Adobe Dreamweaver and Microsoft Expression Studio. Finally, practically any web users can develop a website using WYSIWYG without even learning HTML (Hyper Text Markup Language).  Modern website displays attractive photos and text, at the same time incorporated with animation video and audio to make web page display livelier. Adobe Flash provides graphic content with animation. Adobe Flash also support dynamic content, enhance

with sound effects and visual animation. Adobe Flash main problem is search engines unfriendliness.

Due to modern computer technology evolution, it produced a lot of higher resolution computer monitors. Accordingly, website layouts must improve its height and width to adapt to larger monitors. The web page layout has to be design to become simpler, this will provide users more relax for navigating the site and reading text. Centered orientation format is pick for over the old left-site orientation format of web pages. Nowadays, the new era of internet communication belongs to social media sites (WhatsApp, Facebook, WeChat and Twitter). A lot of CMS (Content Management System) are freely available for manage large range of web contents. Some popular Content Management Systems (CMS) are Joomla and WordPress.

## 2.3 Web Quality Factors Review

This literature review exposed the important of website design quality factors commonly talk over in research that influence user engagement. Appropriate design factors needed to manage website visitors. In recent years, not many researches carry out to determine what specific factors used in website design to produce effective website. I summarized out below a list of quality factors that commonly used in research for effective and user-friendly website design.

1) **Website organization** – is website properly organized logically.
2) **Website content utility** – is website information useful and meaningful.
3) **Website navigation** – is website navigation easy for user.
4) **Website graphical display –** how website arrange colors, icons and multimedia content
5) **Website purpose** – website purpose clearly stated (example: for commercial use, personal use or educational purpose).
6) **Website valid links** – can website provide valid links.
7) **Website simplicity** – is website design simple.
8) **Website impartiality** – website information fulfills objective and fair.
9) **Website credibility** – provided credible information.
10) **Website consistency** – designed consistently website (example: no major changes throughout the website for page layout).
11) **Website accuracy** – all information must accurate.
12) **Website loading speed** – website take how long to load.
13) **Website security/privacy** – website must securely transmit data, able to store privacy data and properly display sensitive personal information.
14) **Website interactive** – can interact with user easily (example: post comments or receive purchase recommendations**).**
15) **Website readability** – website easy to read and no errors (grammatical or spelling errors).
16) **Website efficiency** – how efficient users can search the information they want.
17) **Website learnability –** user must easy to learn when using the website.
18) **Website availability** – time to deliver the website when needed.
19) **Website broken links** – avoid broken links website navigation.

20) **Website changeability –** able to adapt environmental change, features modification or bugs/fault removal.

21) **Website clarity** – clarity website makes the user aware of the functions which they can perform well.

22) **Website coexistence** – website can coexist with other standalone website to share common resources in a common web environment.

23) **Website collaboration** – partnership or working jointly with other web developer to share useful technique and information.

24) **Website compatibility** – support cross platform such as operating systems or web browsers.

25) **Website Depth of Navigational Map** – the maximum number of clicks a navigation need to reach a desired webpage.

26) **Website download time** – the amount of time needed to complete a full web page download.

27) **Website fault tolerance** – when website interface faults, what is the performance rating to maintain this fault website.

28) **Website incentive** – Incentive refer to bonus given by a website to encourages satisfaction loyalty users to continue visit the website.

29) **Website install ability** – how fast and easy to install the website when website needed by customer in a specific environment.

30) **Website interoperability** – website that has the ability to interact with other systems.

31) **Website Menus consistency** – provide different web pages with consistent menus navigation.

32) **Website support multi language** – provide multi language for users to understand the website with their own foreign language.

33) **Website playfulness–** playfulness refers to the degree which a website can entertain users with fun.

34) **Website privacy rules** – user sensitive information interact with website must be protected by website privacy rules.

35) **Website recoverability** – when failure occurred, can on time recover data back to its normal level of performance.

36) **Website responsiveness** – responsiveness design refers to which a website accepts users' requests promptly.

37) **Website search capability** – website incorporated with search function or search engine and the accuracy of search results requested by users.

38) **Website support** – website provides learning tools or user manual which can help users to understand the website full functions.

39) **Website timeliness** – timeliness refers to how a website provides latest and up to date website information.

40) **Website trustworthy –** trustworthy refers to verified, believable and accuracy of website information.

41) **Website uniqueness** – distinct website features or information that display on the website.

42) **Website user friendliness** –website that feedback on the user's satisfaction.

43) **Website variability** – website presents information in different type of format.

## 2.4    Review Concluding Remarks

This chapter reviewed the latest state of research study regarding web quality. This literature review regarding web quality include electronic-commerce website, electronic-governance website, electronic-learning website and others. Majority of these web quality factors are review from these domains. Based on web quality factors review above, more than 40 samples are selected for future study. Collection of all web quality factors were enough to outline latest quality of websites framework, modelling the web quality system can be done in near future.

## 2.5    Review Samples

Review 1: OpenCart Online Shopping Mall Software

**OpenCart Online Shopping Mall Software System Description**

In 1998, OpenCart was established by Mr. Christopher G. Mann. On May 11, 1999, OpenCart developed using Perl language launched their first public release. But this release not welcome by many users and this release stop production in 2000.

In February 2009, A United Kingdom software developer name Daniel Kerr rewrite OpenCart software using PHP language. The new look release of OpenCart was launched with all the old features maintain as the basic for this new electronic commerce software. He named the 1st release as version 1.1.1. Kerr declared that OpenCart software was one of the most popular electronic-commerce software suppliers in China on September 2014.

**OpenCart Online Shopping Mall Software System Overview**

OpenCart Shopping Mall Software developed specially for online sellers and customers to interact with each other. It is a free open source electronic-commerce platform to provides users can professionally success in the online business. This platform suitable for shop owners who first time launch their online business, as well as seasoned web programmers who looking for user friendly interface. OpenCart software is scale well, it also provides the admin with a host of features. Features like images uploading, manage users' profile, add or update products, view and manage payments, update products pricing, manage customers feedback, check delivery status, set promotion items and others.

**Open Cart Online Shopping Software Features**

➢ Multi-Store Function

Multi-store function to manage multiple stores from admin panel.

➢ Various Tax Rates

Multiple tax rates to support different country.

➢ Multiple Languages Selection

Support different languages such as English, Chinese and Malay.

➢ Modules-base Function

Offer 11 modules to extend the functionality for customer needs.

➢ SEO (Search Engine Optimization) support

Fully support Search Engine Optimization

➢ Different Types of Sales Report

Offer 3 types of different reports. This include Sales Report, Product Listing Report and Product Purchase Report.

➢ Business-to-business (B2B)

Offer manage B2B e-commerce features.

➢ Guest checkout Function

OpenCart has a guest checkout feature so that customers don't have to sign up for an account and can simply just enter the minimum amount of details required to process their order.

**Strengths of OpenCart Online Shopping Mall Software:**

The store setup of OpenCart is simple and easy to understand. OpenCart uses AJAX technology to decrease store load time and increase store speed. With simple and easy to use admin panel to control various features for easy website navigation.

Furthermore, OpenCart allows manage several stores from only one admin panel. OpenCart provides localization of stores according to their countries, depending on different currency, language and different classes.

**Limitations of OpenCart Online Shopping Mall Software:**

OpenCart is not as SEO friendly as it could be (OpenCart, 2017). OpenCart support SEO functions, but it is not powerful for the search engine. This prevent the performance of SEO in Google engine as compare to other e-commerce website.

Besides that, OpenCart is not suitable for large size businesses and not even recommended for medium size businesses because when business grows, it will become difficult to make things work smoothly. So, OpenCart tend to work well for small to medium size store compare to other e-commerce platform such as Magneto.

In addition, OpenCart does not provide cache management, if there are lots of visits in your shops, and then your server might have problem. Thus, users need to pay to add an extension for improving performance.

Review 2: PrestaShop Online Shopping Mall Software

**PrestaShop Online Shopping Mall Software System Description**

PrestaShop is a free open source ecommerce platform that was developed in Paris, France in August 2007. PrestaShop provides the most powerful, dynamic and international ecommerce software comes with hundreds of built-in innovative tools for more than 250,000 online store owners. The developer team includes over 130 passionate professional e-commerce enthusiasts dedicated to providing merchants with the best e-commerce solution. PrestaShop have positioned themselves as the world's no.1 open source ecommerce platform, with their headquarters in Paris, offices in Barcelona, Berlin, Brussels, Miami, Milan and San Francisco.

PrestaShop shopping system is simple, efficient and intuitive with unmatched power that enables vendors to thrive in a competitive market regardless of size, industry or revenue. They have removed the financial and technical barriers for vendors on starting an online business by offering a flexible open source and a user-friendly cloud-hybrid ecommerce solution for free which allowed the vendors manage successful online store at no cost.

**PrestaShop Online Shopping Mall Software System Overview**

PrestaShop comes with Admin panel which consists of many standard features for normal user to use or can be customized to suit certain group of users for personalized use. PrestaShop developed with many small separate modules. These small modules contain many small programs which consists of many functionality and features. With these small modules, to change or update certain functions will be easier. Also, to customized special features for certain group of customers can also be done easily

A PrestaShop system module consists of PHP file as the main file. PHP files together with necessary template files and images files are used to display dynamic website information. PrestaShop developed by using new PHP object-oriented code. With object-oriented code, people can modify their core code with their customized code without manipulate any original core code. Thus, custom code overrides core code and this made PrestaShop online store preferable by many users.

**Features of PrestaShop Online Shopping Mall Software**

➢ Responsive Design

Comes with built in mobile shopping cart template. Platform support for layout to multiple devices. This design present beautiful online store picture.

➢ Multilingual

Visitors can choose their choice of language by using a simple mouse click.

➢ Customer Account

Customers able to check the order status, review returned order information, and view the order history. They also can add the products to one or more wish lists, set wish list priority, and share the wish list to their friends by e-mail.

➢ Navigation

PrestaShop online store system offer flexible customization navigation options for site visitors

➢ Product Quick View

Customers can view the product details and short description of product when they hover over the image of the products.

➢ Product Display

Customers can choose to display the products in grid or list form. They also can view the available quantity of the products. If the product sold out, the system will not allow the product to be purchased by the customers. The customer reviews will be showed in the item page as well.

➤ Security

The system will block repeated attempts to recover passwords. The password will be encrypted in database. All the data will be protected from path traversal attacks. PrestaShop is using HTML purifier for safer HTML code.

➤ Customer Management Service Tools

Increase customer satisfaction with tools for return management, client account creation and order modification. Provide great customer service with a centralized customer management system.

➤ Tax Rules Set Up Make Easy

Automatic calculate customer local tax rate with special tracking system.

➤ Stock Management

PrestaShop features a complete stock management feature, which enable the vendor to list warehouses and get a proper view of their stock, its movement, their coverage, their stock orders, etc.

➤ Customer Management

The vendors can search the existing customers by name and modify the shopping cart after orders placed. They can connect with the customers via email and send welcome emails to customers upon registration.

**Strengths of PrestaShop Online Shopping Mall Software**

The fully responsive design help suppliers to offer mobile checkout for mobile and tablet devices with a simple click. The vendors also can manage the entire online store from their mobile device easily. PrestaShop shopping cart is multilingual and supports multiple currencies. The customers can buy the products with their national currency. PrestaShop's Admin Panel is user friendly to control.

**Limitations of PrestaShop Online Shopping Mall Software:**

The product catalogue and default template of PrestaShop shopping system needs improvement. They are not as professionally designed as compared with others. Most of the modules are highly priced. Some important PrestaShop Modules have to be purchased as they do not come with solution pack. Furthermore, PrestaShop shopping system is not suitable for large sized businesses (PrestaShop, 2017). The speed for loading a shopping website will become very slow if there are a large number of products with different category being listed in the online store.

Review 3: CS-Cart Online Mall Software System

**CS-Cart Online Shopping Mall Software System Description**

CS-Cart Online Shopping Mall Software is founded by Simtech conglomerate. They have been developing eCommerce solutions since 2005. Since 2005, Simtech conglomerate customers from 170 countries have purchased over 35,000 copies of Simtech shopping cart software. Thousands of companies all over the world choose CS-Cart and stay with Simtech over the years, which confirms high quality of Simtech software and service.

If we are going to launch a large ecommerce project with numerous independent departments, then we are probably aware that standard web shopping carts will be useless here. Actually, we will need a specific, advanced type of ecommerce platform - online shopping mall software, or also known as a multi-vendor shopping cart - designed specifically for multi-vendor store development and management tasks.

**CS-Cart Online Shopping Mall Software Overview**

CS-Cart Online Shopping Mall Software – an advanced, fully-functional virtual shopping mall system that offers unmatched flexibility and usability, without requiring to invest a fortune. With multiple breakthrough tools integrated, it allows to create huge shopping malls with multiple standalone departments or sophisticated online marketplaces, where virtually an unlimited number of independent vendors can sell their products and services through a common storefront.

This online software provides all suppliers with separate account payable amounts tracking. With built-in advanced tool, supplier payouts and book keeping can be easily organized. Suppliers can arrange their shipping options based on their preferable, while buyers also have their own preferable choice to select supplier-specific options at checkout.

Every individual supplier provided with self admin panel to control own stocks and store setting. But there is a root admin which can control every stores access. Root admin has full power to over right any supplier if necessary. This Online Shopping Mall Software incorporated with many sophisticated features and functions which can match all users' ideas and help users to success in the long run.

**Features of CS-Cart Online Shopping Mall Software**

➤ **Default Database Editor**

A default database editor using drag and drop for manage your storefront database. This editor support grid-based layouts format and be responsive.

➤ **Attractive Storefront Themes**

Different storefront themes can be install using built-in admin panel. There are more than 200 attractive storefront themes for users to choose from.

➢ **Real Time Storefront Customization**

With the built-in theme editor, you can change your storefront background, colour scheme, fonts, and more directly on site.

Choose one of the default design pre-sets or create your own unique style. No HTML or CSS knowledge required!

➢ **Smarty Template Design**

Smarty is a powerful template engine widely used across the Web. All templates in CS-Cart are Smarty-powered, which makes it easier for new coming developers to dive in.

➢ **In-browser Editor For HTML/CSS**

CS-Cart comes with 100% open source code and a powerful in-browser editor that lets a web-developer edit template files right from the CS-Cart admin panel.

➢ **Multi-Function Admin Panel**

Every CS-Cart store comes with a powerful admin panel. It's crammed with dozens of features to help you get the full control over your store.

All the necessary tools for a worry-free are just at the tip of your fingers, intuitively arranged and served under a clean design.

➤ **Powerful Content Management**

The CS-Cart admin panel includes a full-fledged content management system.

The built-in CMS offers an easy way to create rich and SEO-friendly content pages for your site. You have full control over your page navigation and hierarchy. A modern web-based WYSIWYG editor will help you create beautiful pages in no time.

➤ **Product Search**

Product filters provide a convenient way to search through store catalog. With CS-Cart, you can easily create custom product filters based on any product feature.

➤ **Built-in Return Management**

With the built-in RMA add-on, a customer can quickly create a return request and track it on their profile page. All requests can be easily managed via the admin panel.

➤ **Multi-Currency & Language Function**

CS-Cart is localized into 10+ languages. Customers can easily switch languages and currencies right in the storefront; the prices are converted on the fly.

➢ **Scalable Multi-Storefront**

CS-Cart offers great scalability via additional storefronts. All storefronts are controlled from the same admin panel.

Although all storefronts share the same DB, you can customize each one individually giving it a unique look and feel. Also, every storefront can have its own customers and products isolated from the other ones.

➢ **Product Option Selection**

CS-Cart gives you powerful capabilities to control product options: create option combinations, add images for each option variant and combination, apply weight and price modifiers.

When creating an option, you can select its type. Besides the common option types—Select box, Radio group, and Checkbox—you can choose the Text, Text area, and File. The File type is useful for customizable products, where customers use their own graphic images.

➢ **Combinations Option Function**

Combine option variants to create an option combination. Then add an image for each combination: when a customer chooses option variants on the product details page, the product image changes according to selected option variants.

You can also add forbidden combinations. Customers cannot select option variants of the product, if these variants make a forbidden combination.

➢ **Price and Weight Modifiers Function**

Price modifiers reduce or increase the original price of the product, if a customer selects a particular option variant.

Weight modifiers change product's weight depending on the selected option variant. This feature is useful for delivery cost calculation.

➢ **Sequential Options Function**

By using sequential options, you let your customers choose options successively, one after another. For example, if a product has two options, the second option is locked until a customer chooses the first one.

Thanks to this feature, your customers choose only allowed option combinations.

➢ **Product Tracking Options**

Tracking product inventory with options allows you to know the exact number of in stock items with particular option combinations.

This feature is useful for tracking the in-stock quantity of apparel, since apparel can be of different sizes and colours.

➢ **Product Tracking without options**

Tracking product inventory without options will display current product in-stock items.

➢ **Products Ready for Download**

With this feature you can sell electronically distributed products in your online store. Enable this function in Settings / General / Catalog and you're good to go!

➢ **Export & Import Function**

Data export and import feature is essential for a proper online store. CS-Cart offers the full control of the export and import functionality: you can export and import features, orders, products, subscribers, translations, and users.

This feature uses the CSV data format, which is commonly supported by other software. For example, you can export data from your store and then import it easily into any stock accounting system.

➢ **Variety Payment Gateways**

CS-Cart offers a variety of payment gateways and processors to choose from. The world's most popular payment options are ready to use right out of the box.

➢ **Variety Shipping Rates**

Integration with major shipping providers like FedEx and USPS allows CS-Cart to deliver actual shipping rates directly to the checkout page.

Delivery cost is calculated on the fly based on a customer's shipping address and online data from the shipping provider.

➢ **Smooth Shopping**

From putting a product to the shopping cart and straight to the checkout, your customers will enjoy smooth and fast transitions and rarely see their page reload.

➢ **PCI DSS Compliant Standard**

CS-Cart meets all the necessary security requirements of the PCI DSS standard, allowing your customers to pay with MasterCard, VISA, and other credit cards.

➢ **Step by Step Customer Checkout**

CS-Cart's step-by-step checkout process is very easy to follow, and your customers will appreciate it.

All checkout steps are shown on a single page making the whole process intuitively clear for a customer.

➢ **Flexible Tax Management**

CS-Cart gives you advanced tools for complex and location-based taxation. You can define multiple shipping or billing address-based taxes and prioritize them the way you like.

➢ **Support Social Media Download**

CS-Cart permit export database to social media (eBay, Google and Facebook)

➢ **Support Social Media Login**

Thanks to the Social login add-on your customers log in to your store using their social network accounts: Google, Facebook, Twitter, Foursquare, etc.

➢ **Blog Update**

With the Blog add-on you create a fully-featured blog inside your store.

By posting store news and product reviews in your blog, you attract more customers and generate more SEO-friendly content.

➢ **Testimonials & Product Reviews**

With the Comments and reviews add-on enabled your customers post product reviews, testimonials, and comments in your store.

Testimonials and reviews from real customers make the store look reliable and help attract new customers and increase sales.

➢ **Bestseller Products Analysis**

This cross-selling tool allows you to show bestsellers, on-sale, similar, newest products, and more on the storefront.

Use the Bestsellers & On-Sale Products add-on to offer more products and worthy deals to your customers.

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## ➢ Customer Cart Tracking

This cross-selling tool allows you to show bestsellers, on-sale, similar, newest products, and more on the storefront.

Use the Bestsellers & On-Sale Products add-on to offer more products and worthy deals to your customers.

## ➢ Abandoned Carts Notification

Knowing when your customers abandon their carts can help you detect and eliminate bottlenecks on their way to checkout, improving their shopping experience and your profits.

## ➢ Live Carts Control

You can view any in-progress shopping session from the storefront in detail right in your CS-Cart admin panel. Get a sneak peek into your customer shopping bag!

## ➢ Various Promotions & Discounts

CS-Cart offers a variety of promotion options to attract customers to your store: catalogue or cart-based, discounted flat or per cent, and more.

Setting a particular product discount is super easy: just set the list price lower than the actual price, and the discount will be calculated on the fly.

➤ **Seamless Integration with Mad Mimi and MailChimp**

Synchronize your subscriber lists with Mad Mimi and MailChimp e-mail marketing services using the E-mail marketing add-on.

➤ **Provide Rocket-Fast Speed**

We understand how crucial speed is for an online store. This is why we put much effort into making CS-Cart faster with every new version. Backed by advanced web technologies, CS-Cart scores **95 points out of 100** in the Google Page Speed test out of the box. This is the highest score among other top e-commerce platforms.

With CS-Cart, you don't have to worry that your customers will wait for a page to load. CS-Cart is designed to deliver smooth and seamless shopping to every customer.

➤ **Faster Lazy Image Loading Function**

With lazy image loading the images on your storefront are loaded only when a customer scroll to them.

Lazy image loading reduces server load and makes a web page load faster.

➤ **Postpone Loading Script Function**

Customers cannot see the scripts because the scripts are a part of an HTML page and stand for animations and interactive content. It's important to show what a customer can actually see on the web page first.

> **Gzip Function for Web Page Files**

When a customer opens the webpage, the server starts sending web page files (HTML, CSS, JavaScript) to the customer's browser.

Gzip reduces the size of these files. The smaller the page files, the faster they are delivered to a customer's browser.

> **Content-Delivery Network (CDN) Support**

CS-Cart ships with the Amazon CloudFront CDN support. All the benefits of a Content-Delivery Network are at your service, in just a few clicks.

CDN is a system of worldwide-distributed servers that store your static data (images, CSS, and JavaScript files). For customers, this means better response time when they access your site, because the content takes a shorter path to their browsers.

> **Built-In Cache Memory**

The built-in caching engine caches template data and MySQL data into the memory. When CS-Cart needs that data again, the cached template data and MySQL query results are quickly retrieved from the memory.

> **Caching Technology**

CS-Cart practice caching technology. Cache memory retrieve data faster than hard disk.

➢ **HipHop Virtual Machine (HHVM)**

HHVM run PHP code faster, this allows database also loading faster.

**Strengths of CS-Cart Online Shopping Software**

It has a fast and streamlined interface (CS.Cart, 2017). Cleary Inventory keeps the interface simple and stripped down, which without a lot of decorative graphics or unnecessary features that might consume valuable bandwidth and slow down the performance. Since the software is based in a true cloud environment, servers can be scaled up faster to meet demand. Another advantage of this software is the pricing, which is relatively low and reasonable compare to other inventory management systems. It is suitable for those who have a very small business and want a simple and effective online product at a rock-bottom monthly cost.

**Limitations of CS-Cart Online Shopping Software:**

Clearly Inventory has no product variants (CS.Cart, 2017). This is a significant problem to those who has business that has multiple versions of the same product type. Users have to enter each version manually and they are not automatically connected to each other.

This software does not contain any integration. The lack of integration with third-party online sales or accounting software and other types of vendors means user just can do what has provided by the software.

**Review 4: X-Cart Online Shopping Mall Software**

**X-Cart Online Shopping Mall Software System Description**

X-Cart Online Shopping Mall Software is based on the covered by Forbes, Financial Times and Tech Crunch, Ruslan Fazlyev, one of X-Cart founders and board member, was driven by an idea of democratization of eCommerce since he founded X-Cart back in 2001. Since X-Cart team achieved a lot on gross merchandise Volume of X-Cart merchants in 2014 exceeds $2,000,000,000, more than 33,000 licensed X-Cart installations and clients from 111 countries of the world, among them - CARiD, Baldinini, Xerox, Getting Things Done and Hitachi.

OOP, MVC, Bootstrap, API - the modern technologies they use allow them to create high-performing, beautiful and convenient online stores. But first of all, it's people who create the great product. Talented, enthusiastic, persistent and open-minded professionals: developers, designers, supporters and sales guys.

**X-Cart Online Shopping Mall Software Overview**

X-Cart Online Shopping Mall Software - high technology software to monitor the progression of the user using it. By enable the multilingual catalog and inventory tracking to make the product and for the seller to be more specific. Auction available is for the particular vendor that have the limited or special product that provided to get bidding for the pricing instead fixing the price, it another difference. The payment method is proven safety to the extend having the powerful fraud prevention tools in-house to reduce the risk management. Vendors able to hit different multiple storefront at the same time from different suppliers to proceed with the sales.  As to be advanced order management to modify different order on behalf of your customer and able to possess the mobile POS to make transactions at any place. Buyers able to check out with different shipping company to make sure their cart item is cheaper to be send to

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them at the better rate and different checkout that he or she able to choose it.

**Features of X-Cart Online Shopping Mall Software**

➤ Color Schemes and Design Templates.

Storefront automatic adjusts to the size of the device (phone or tablet) when opened. Able to change your store into different templates to accommodate with your style for attraction.

➤ Stock Searching

Tracking on products quantity and stock variants. From dashboard can view best seller stock and low stock product.

➤ Auction Module Function.

Based to set the initial price, duration and the minimum bid increment. Monitoring each lot and change the auction parameters on-the-fly as needed.

➤ Images Jump Off Function.

Unlimited number of product images and images for variants, in-page Smart zoom to show every detail of your product and a product thumbnail generator with a build-in sharpness filter.

➢ Best Search Function.

Lightning-fast search with suggestion and spell-checking powered by "Cloud Search". Synonyms support, promotions and statistics make it an even more powerful marketing tool.

➢ Multi-currency & Multi-language.

Show product prices, as well as shipping costs and totals in the currency your buyers are used to. Translate the storefront to any language or select an existing translation and make your store closer to your audience from around the world.

➢ Comparison of Product.

Customer can side by side compare similar product which they intend to search for.

➢ Payment module, Shipping module and Tax module.

X-Cart makes PCI compliance easy whether customers check out right from your storefront via a merchant-hosted payment page or are redirected to a payment gateway-hosted payment page.

Over 25 payment integration`s enable secure payment gateway-hosted payment page to accept credit cards without any PCI DSS hassle at all, as you never actually touch the sensitive credit card info.

Access 50 more payment processors when you host the payment page on your website with PA DSS certified payment application X‑Payments.

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By supporting tokenization, X-Payments allows for recurring payments and subscriptions as well as PCI-compliant "storage" of credit card details.

➢ Advanced Order Management.

Modify order on behalf of your customer as to add or remove products, modify selected options and variants. Update pricing, taxes, discount, delivery methods and shipping cost as admin experience.

➢ Point of Sales (POS) module

Control product, orders and inventory of both retail and online stores within a single web interface, where you can also accept payments, print receipts and bar-code labels.

➢ Mobile POS aka "PayPal Here".

Process credit card payment on your iPhone, iPad or Android device. The Point of Sales is with you anywhere with your business together, be it a trade show or your brick-and-mortar boutique.

➢ Security Access.

Firstly, 100% PCI-DSS compliance for safe payment acceptance and processing for your customers' security. Besides that, HTTPS/SSL support for secured connections and safe checkout, cryptographically strong SHA 2 sensitive data encryption. Moreover, XSS- and CSRF- attack protection, protection against SQL-injections meaning that each query to DB is secure and all the

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variables are being checked. Lastly, failed Login attempts notifications and database backup and restore feature.

➢ Real-Time Shipping Quotes.

Integration with major shipping providers like Australia Post, Canada Post, FedEx, UPS and USPS allows X-Cart to deliver actual shipping rates directly to the checkout page.

Delivery cost is calculated on the fly based on the customer kilometer range from the current location to the customer location address.

➢ Checkout and Orders Management.

Powerful fraud prevention tools: in-house "Antifraud" service and integration with Kount, all-in-one fraud and risk management solution.

Payment status and fulfillment status of the order are separated to manage the orders effectively

Support of multiple transactions per order, which the administrator can manage independently from each other.

➢ Quick Access Module.

Quick access to shopping cart contents and checkout on any page of the store. Optional "Pay with Amazon" and "PayPal Express Checkout" buttons can be enabled.

➢ Share Media Login.

Share with common media login (example: Google) to express customer registration. Quick and simple way to do new registration.

➢ Unknown name Checkout.

Can placed orders for non-member. Carefully search "unknown name orders" allocate unknown account.

➢ Multiple Suppliers.

A single web store can manage multiple supplier (single storefront, multiple suppliers, supplier back end, root admin account) and their own products.

**Strengths and Limitations of X-Cart Online Shopping Mall Software**

**Strengths:**

This online shopping mall software under the main priority is to provide the customer or user to be comfortable for using the software under the store vendors. The step by step online shopping mall software is easy to use for user. The shipping payment method, shipping cost and tax rate calculation is at different rates, to be chosen based on the real-time shipping quotes. Use custom-defined delivery method, to estimate calculation of shipping cost. Provide special delivery order tracking number for user to make tracking towards the product. Provide automatic label generation function and prints out various label (FedEx, UPS and USPS) by a single mouse click. Main strength is the multilingual catalog. When setting up the catalog enable to make the

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search engine and customer love it when searching for it. Install with lightning search function and advanced spelling error checking function which is powered by "Cloud Search", enable the speed faster compare to others.

The next strength for this online shopping mall software is the auction function available to bid the item being set in the system to be sold off. Comparing to others software, they do not have a particular function for the user to make full use of the limited-edition product or special product that have not launch yet. Function like side by side product comparison with other is useful for customer to compare alike products and can differentiate product chosen as compare with others. A fraud detection tools use to manage the order effectively based on the payment status and fulfillment status. X-Cart Online Shopping Mall Software support many transactions for one order. This makes Admin can manage independently from one another.

**Limitations:**

The cost for the premium X-Cart Online Shopping Mall software is expensive. In order to gain those minimal extra features to support with the system, we have to pay a little more compare to other software. Those features that are unavailable for X-Cart to perform are the RSS Feeds for New Products Module, Product Tags Approval Module and Product Tags Generation Module. Another limitation is the basic configuration unable to incorporated with the cloud storage system to load with high capacity data as against the competitors. To enjoy cloud storage facility, upgrading will cost even more.

**Review 5:  SmartStore.NET**

**SmartStore.NET System Description**



SmartStore.NET, the powerful open source e-commerce solution to create a complete web store without any hidden cost. The application is well-designed, easy handling, flexible and extendable with ASP.NET MVC 5 in its engines. SmartStore.NET is built on IIS 7+, ASP.NET 4.5, ASP.NET MVC 5 and MS SQL Server 2008 Express (or latest version). The web components used to run with the system are HTML 5, CSS 3, jQuery, LESS CSS, Twitter Bootstrap, FontAwesome & Co. and powerful theme engine SmartStore.NET. These web components offer innovation support for designers' creativity, thereby enabling shop design at the highest level.

**SmartStore.NET Software Overview**

SmartStore.NET provides all imperative features to create multi-language and multi-currency platform targeting desktop and mobile devices and enabling Search Engine Optimization that optimized rich product catalogs with support for variance number of products, categories, variants, bundles, datasheets and many more. A comprehensive set tools for Customer Relation Management, sales, marketing, payment, shipping and more. These make SmartStore.NET a powerful all-in-one solution that can fulfil users' needs from zero costs which is free.

**Features of SmartStore.NET**

First to be mention that SmartStore.NET will be used as the examples of store's name that provided from SmartStore.NET. Besides, login page for the admin and public users are using the same login page (same URL) but for the demo purpose it will separate into frontend for public users and backend for admin.

➢ Login page

To log in into the My-SmartStore, users need to key in their username and password correctly. My-SmartStore has a function called "Remember Me?" that auto-login cookie remembers your password and automatically log you in the forum so that user won't have to re-enter his or her username and password.

➢ Admin – Dashboard

After admin enter the dashboard, a brief information about today activities will be shown which are order totals, bestseller by quantity or amount, registered customer in few ranges of periods and list of incomplete orders. Texts in blue color are able to click in will direct admin to the respective page.

➢ Admin – Catalog (View)

The catalog is able to let admin to easily search created categories and can add new categories by just click in the "+ ADD NEW" button which at top right corner. There are two options of views that admin can use which is list view and tree view.

➢ Admin – Catalog (Manage Products)

The manage product is able to let admin to easily search and manage the existing products, add new product by just click in the "+ ADD NEW" button, delete the selected product(s) and export selected or all products as XML form, CSV card or PDF. The search engine is included and search process can be proceeded as long as one or more of the column is entered data.

➢ Admin – Catalog (Low Stock Report)

This page only shows the overviews of product(s) which is needed to be reordered. Normally the reorder level is set more than 0. Each items or categories of items can have different reorder level depends on the vendor's forecast.

➢ Public User – Product Page

This is the product page shown when user selected a product to view. The top left corner is the Basket (Cart) button which show the number of product type added and the subtotal amount of all selected products. The bigger picture which above the row of image selection has the magnifying features. Besides user also can share this product through email or other social media platform such as Facebook, Twitter and others.

➢ Public User – Compare Products

In the product page have a link ("Add to compare list"), after user click it, the product will add into the comparison list. The comparison table will generate to let user easily to have a clear view of the differences among the products.

**Strengths and Limitations of SmartStore.NET**

**Strengths:**

Besides the features that the shopping mall system have in current market, SmartStore.NET provides a great support on customer management. Instead of the gift vouchers and wish list functions provided in the system, SmartStore.NET added a function called customer groups management which can classify customer group and define different prices for different customer range. Next is bonus point function that the bonus point will earn by customers after they successfully made their purchase. This bonus points function helps the vendors to manage their loyalty program which let customers can use earned bonus points to use in any promotions such as member-only event, other discount and free parking.

In addition, product management feature also added the attributes function which can specify complete product to give an obvious general review. Moreover, expansive variant function which provide different kind of products also added in the system. This function helps vendors to easily sets their varieties of the products such as technology products which having different specification with same name of item.

**Limitations:**

The limitation of SmartStore.NET is cannot support the Malaysia's Goods and Services Tax (GST) which can set the GST account number and the respective reports. Another limitation is SmartStore.NET still does not implement intelligent search engine into it so users only can search the original full word, such as "WLAN" and "LAN" are consider as different word. When user search "LAN", the items that have "WLAN" could not show up in the search results.

## 2.6 Comparison between 5 existing Online Shopping Software

| Features | CS - Cart | Open Cart | Prestashop | Smartstore | X - Cart |
|---|---|---|---|---|---|
| 1. Virtual Shopping Mall | √ | | | | √ |
| 2. Built-in Layout Editor | √ | | √ | √ | √ |
| 3. Storefront Themes | √ | | | √ | |
| 4. Admin Panel | √ | | √ | √ | √ |
| 5. Content Management | √ | | √ | √ | |
| 6. Product Filter | √ | | √ | √ | √ |
| 7. Return Management | √ | | | √ | |
| 8. Multi-Language | √ | √ | √ | | |
| 9. Multi-Currency | √ | √ | √ | | |
| 10. Multi Store | √ | | | √ | √ |
| 11. Export & Import Data | √ | | √ | √ | |
| 12. Variety of Payment | √ | √ | √ | √ | |
| 13. Real time shipping rate | √ | | | | |
| 14. Tax Management | √ | | √ | | √ |
| 15. Search Engine Optimization | √ | | √ | √ | √ |
| 16. Sell on social media | √ | | | | |
| 17. Bestsellers of On-Sale Product | √ | | | √ | |
| 18. Customer Cart Tracking | √ | | √ | √ | |
| 19. Live Carts | √ | | √ | √ | √ |
| 20. Promotions & Discounts | √ | √ | √ | √ | |
| 21. Lazy Image Loading | √ | | | | |
| 22. Gzip for HTML, CSS, JS | √ | | | √ | |
| 23. Built in Cache | √ | | | | √ |
| 24. HHVM-Optimized | √ | | | | |
| 25. Multiple Tax Rates | √ | √ | √ | | |
| 26. Sales Report | √ | √ | √ | √ | |
| 27. Mobile Apps Admin State | √ | | √ | | √ |
| 28. Auction Available | √ | | | | |
| 29. Open Source | | √ | √ | √ | √ |
| 30. Multiple Vendor | √ | √ | | √ | √ |
| 31. Response Guarantee | | | | √ | |
| 32. Security | √ | | | √ | √ |

**Table 2.01 Comparison between 5 existing Online Shopping Software**

## 2.7 Highlight and compare with ATD ONLINE SYSTEMS

| Features | CS - Cart | Open Cart | Prestashop | ATD |
|---|:---:|:---:|:---:|:---:|
| 1. Virtual Shopping Mall | √ | | √ | |
| 2. Built-in Layout Editor | √ | | √ | √ |
| 3. Admin Panel | √ | | √ | √ |
| 4. Content Management | √ | | √ | √ |
| 5. Product Filter | √ | | √ | √ |
| 6. Return Management | √ | | | |
| 7. Multi-Language | √ | √ | √ | |
| 8. Multi-Currency | √ | √ | √ | |
| 9. Export & Import Data | √ | | √ | √ |
| 10. Variety of Payment | √ | √ | √ | √ |
| 11. Real time shipping rate | √ | | | |
| 12. Sell on social media | √ | | | √ |
| 13. Bestsellers of On-Sale Product | √ | | | √ |
| 14. Customer Cart Tracking | √ | √ | √ | √ |
| 15. Live Carts | √ | | √ | |
| 16. Promotions & Discounts | √ | √ | √ | √ |
| 17. Multiple Tax Rates | √ | √ | √ | |
| 18. Sales Report | √ | √ | √ | √ |
| 19. Mobile Apps | √ | | √ | |

**TABLE 2.02: Highlight and Compare with ATD ONLINE SYSTEMS**

**Comparison Description**

Based on the comparison table above, current existing review systems contain the general features of an online shopping cart system. Some common features that share among the shopping cart systems include multi language, multi-currency, import and export data, variety of payment, real-time synchronizing, generate sales report, stock management, promotion and discount, transaction management, security, support service and search engine optimization.

However, each of these shopping cart systems do support for unique features that distinguish one another for customer recognition. Firstly, CS-Cart provides Sales Report, Admin Panel, Product Filter, Multi Language and Multi Currency, Live Carts, Promotions and Discounts, Multiple Tax Rates and others common module. CS-Cart performs same function as other review shopping cart system but it offers feature likes virtual shopping mall concept which some of them do not have. Moreover, it has real time shipping rate module allows user easily calculate shipping charge without any restriction. Next, the lazy image loading module helps user to download pictures quickly and easily. Lastly, CS-Cart did support for multiple vendors.

The Open Cart and X-Cart system offer less features as compare to other systems. Features for Prestashop and Smartstore almost the same except Smartstore has extra features likes Multiple vendor, Bestsellers of On-sale Product and Storefront Themes. Lastly, CS-Cart does not support Open Source, Response Guarantee and 3D animations.

**Limitation of the Current Review Systems**

All of these current review systems do not support 3D animation function. Latest e-commerce technology includes innovative 3-D animation and vector graphics. However, 3-D animation still not fully entry into the e-commerce market.

Current review systems do not have Reverse Auction feature. In addition, current review systems also do not have B2B and B2C functions together. This will allow B2B (business-to-business) and B2C (business-to-consumer) eCommerce operate under one roof. Finally, these review systems do not support good Virtual Services.

## 2.8 Functionalities/Features Proposed for ATD ONLINE SYSTEMS (ATD)

### Administrator backend

The administrator backend is strong and effective which can provide total control to admin over every part of ATD website. For example: admin can keep track the customer cart. With this, admin can know which products being most satisfying customer's needs. Besides, admin also can know the sales analytics such as what are the total sales, total orders, and total customers visited ATD site. Furthermore, admin can modify selected choices and variants such as update pricing, discounts, delivery methods and shipping costs.

### Customer Relationship Management

Customer Relationship Management which can help ATD admins to manage the relationship with their customers. From this module, ATD can analyzed the customer's sales activities and behavior. With analyzed data collected from Customer Relationship Management Module, ATD can make special promotion activities to attract customers based from customer purchase habit and budget.

### Products/Items Bundling

This feature is the Products/Items Bundling. ATD admin create a series of product bundling promotion according to the trends and customers' needs in order to attract customers to make purchases. This feature work frequently with Customer Relationship Management to provide better offer for the loyal customers to gain trusts and support from them.

**Security Checking**

This system able to have short coming when the user forgets and need to retrieve the password and login name by proving the email address or security question as an option. In addition, the passwords will be needed at least 8 characters in length including letters, numbers and special characters. If need a higher security, the letters should contain both uppercase and lowercase.

**Easy Chatting**

Can initiate a chat from website and makes it easy to deliver personalized and real time customer service. Can also answer chats from mobile device. Can monitor and track visitors progress over time, review chat history and check performance in analytics.

**Real Time Monitoring Visitors**

Monitor website visitors and traffic in real time.

## 2.9    Summary

The proposed **ATD ONLINE SYSTEMS** is suitable for small and medium online shopping companies.

ATD ONLINE SYSTEMS developed with many common features and functions such as Built-in Layout Editor, Admin Panel, Content Management, Product Filter, Variety of Payment, Sell on social media, Bestsellers of On-Sale Product, Promotions & Discounts and Sales Report.

ATD ONLINE SYSTEMS does not has 3D Shopping Mall System. A 3D Shopping Mall is a shopping system involved in high-tech technology that will bring different experience to customers. In 3D Shopping Mall concept, the shopping mall, business shapes, shop owners and customers are all virtual interactive and in 3D stores just like in a real shopping mall.

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# CHAPTER 3: SYSTEM DESIGN

## 3.1    Software and Hardware Requirement

To develop ATD Online Systems, several software and hardware are used.

### a.  Software Requirement

To develop the ATD Online Systems, some of the software we used are XAMPP, MySQL, PHP (Hypertext Pre-processor), Adobe Photoshop CS6 and Adobe Dreamweaver CS6. Table 3.01 shows the software requirements for ATD Online Systems.

| Software Name | Software Description |
|---|---|
| XAMPP | XAMPP's is a website development tool for testing local computers without access to internet server. |
| MySQL | For database storage. |
| PHP | It is a server-side scripting language. Use for generate web pages dynamically. |
| Adobe Photoshop (CS6) | Photoshop use as graphics editing software. |
| Adobe CS6 Dreamweaver And Notepad++ | Software for create and edit web pages. |

**Table 3.01:  Software Requirement Summary Table**

**b. Hardware Requirement.**

Hardware requirement is important to find the minimum requirements for the system to operate smoothly. Table 3.02 shows the hardware used to develop the **ATD ONLINE SYSTEMS**.

| Component | Requirement |
|---|---|
| Central processing unit (CPU) | i. Intel Core Dual G645-2.9Ghz Gigabyte H61 Chipset<br>ii. 2GB DDR-3 RAM 1333<br>iii. 500GB SATA-II Hard Disk<br>iv. Built-in VGA Card & Sound<br>v. 22X DVD Writer<br>vi. P4 ATX Tower Casing |
| Printer | i. HP Deskjet<br>Ink Advantage 2520hc |
| Monitor | i. Acer 18.5" TFT Wide LED |
| Pen drive | i. Kingston Thumb Drive 8GB |

**Table 3.02:  Project Hardware requirement.**

## 3.2    Draw ERD (Entity Relationship Diagram)

ERD (Entity Relationship Diagram) must draw before design a real database. Below ERD design for **ATD ONLINE SYSTEMS**.
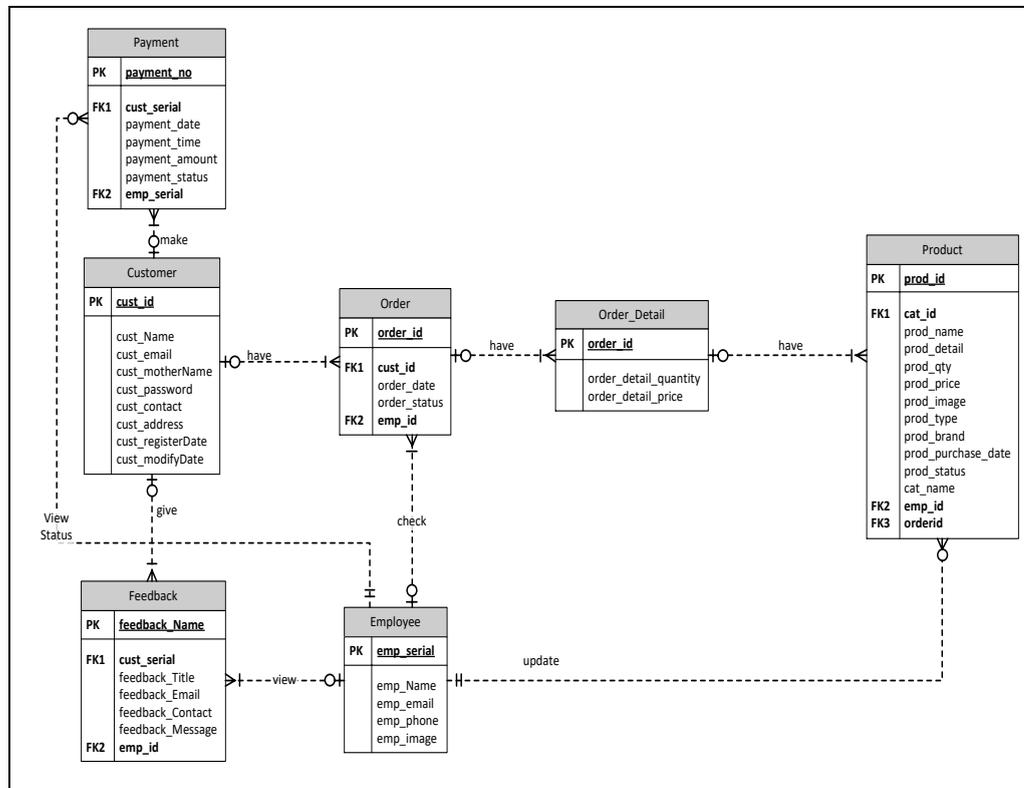


**Figure 3.0**1**: Entity Relational Diagram**

Figure 3.01 shows the seven entities created for ATD Online Systems. The seven entities are employee, customer, product, order, order detail, payment and feedback.  ERD model was developed based on Crow's Foot Notation.

## 3.3    Draw DFD (Data Flow Diagram)

DFD (Data Flow Diagram) is a network diagram which describe data flow and processes in a system.
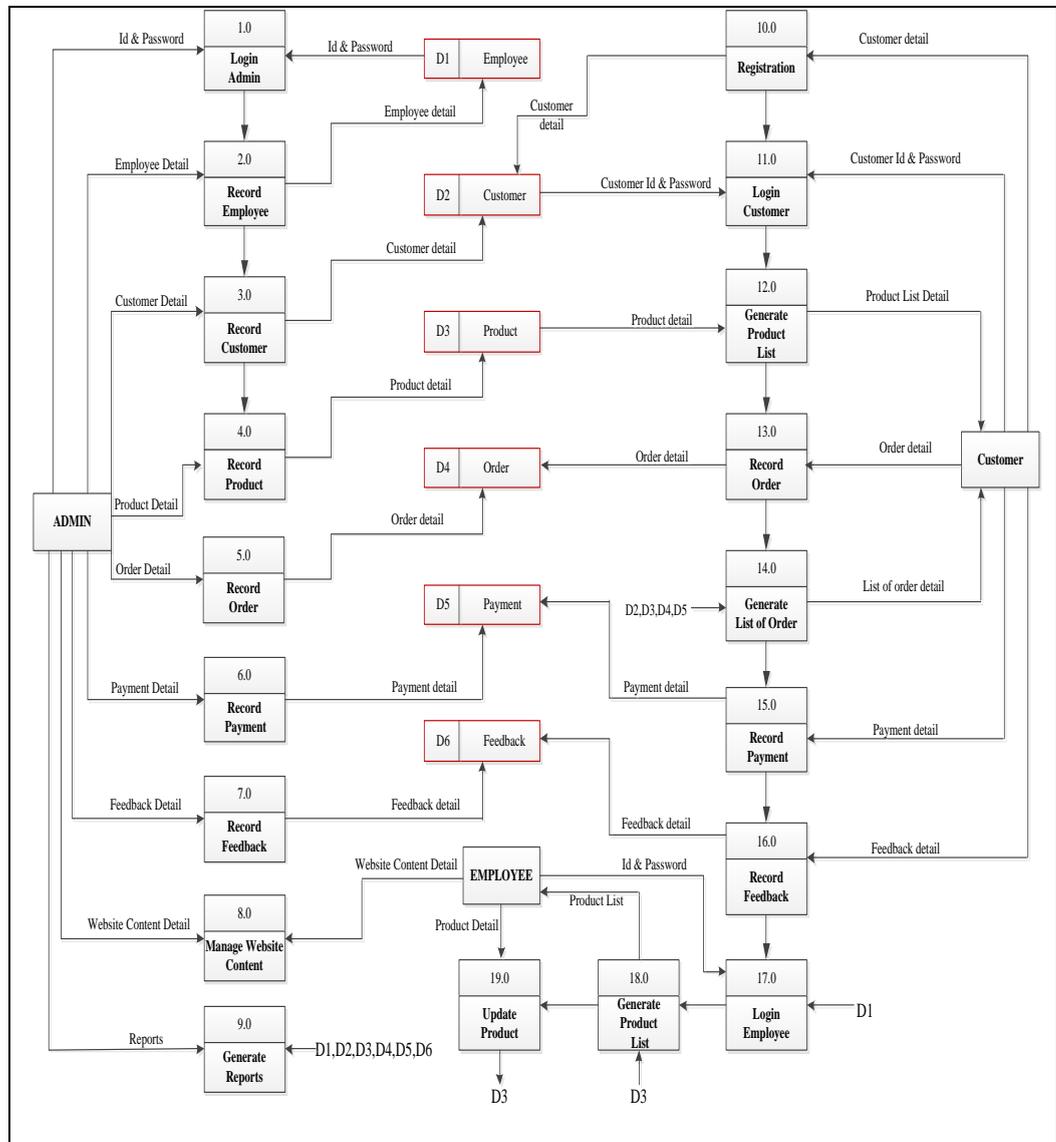


**Figure 3.02:    DFD (Data Flow Diagram) Drawing**

### 3.4 Draw Context Diagram

**ATD ONLINE SYSTEMS** context diagram shows the boundaries between system scope and external environment. Figure 3.03 below shows how ATD carry out orders.
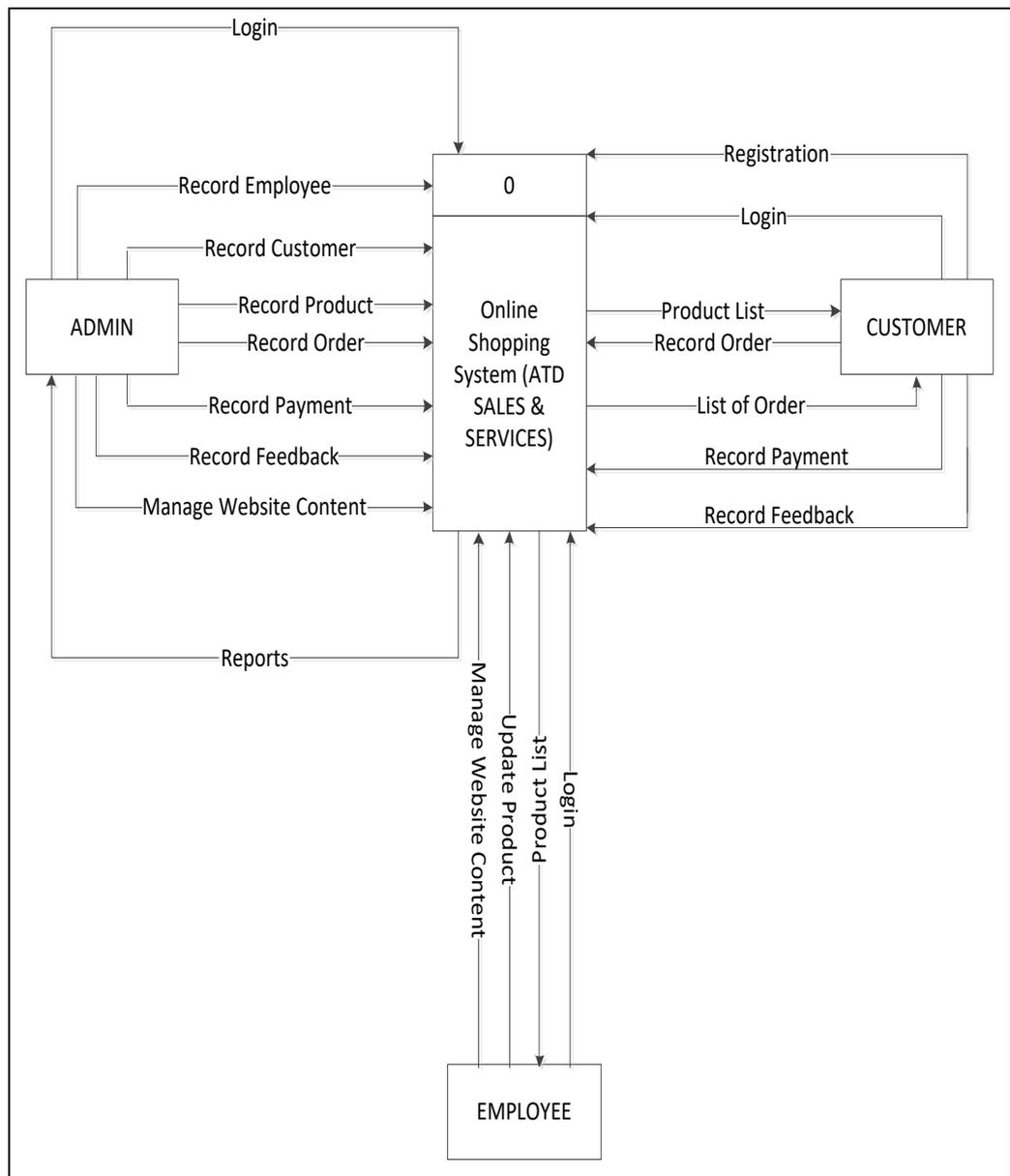


**Figure 3.03: Context Diagram Drawing**

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## 3.5    Flow Chart Description

A flowchart is a diagram which explain certain algorithm or process. It shows steps as boxes and connecting orders using arrows. Flow Chart is a diagram illustrates a solution for a given problem. Flow Chart process normally indicated by boxes, arrows and follow certain sequences of steps. Flowcharts are used in various projects for analysis, design or documentation.

### a.    Admin

Figure 3.04 shows **ATD ONLINE SYSTEMS** Admin Flowchart.
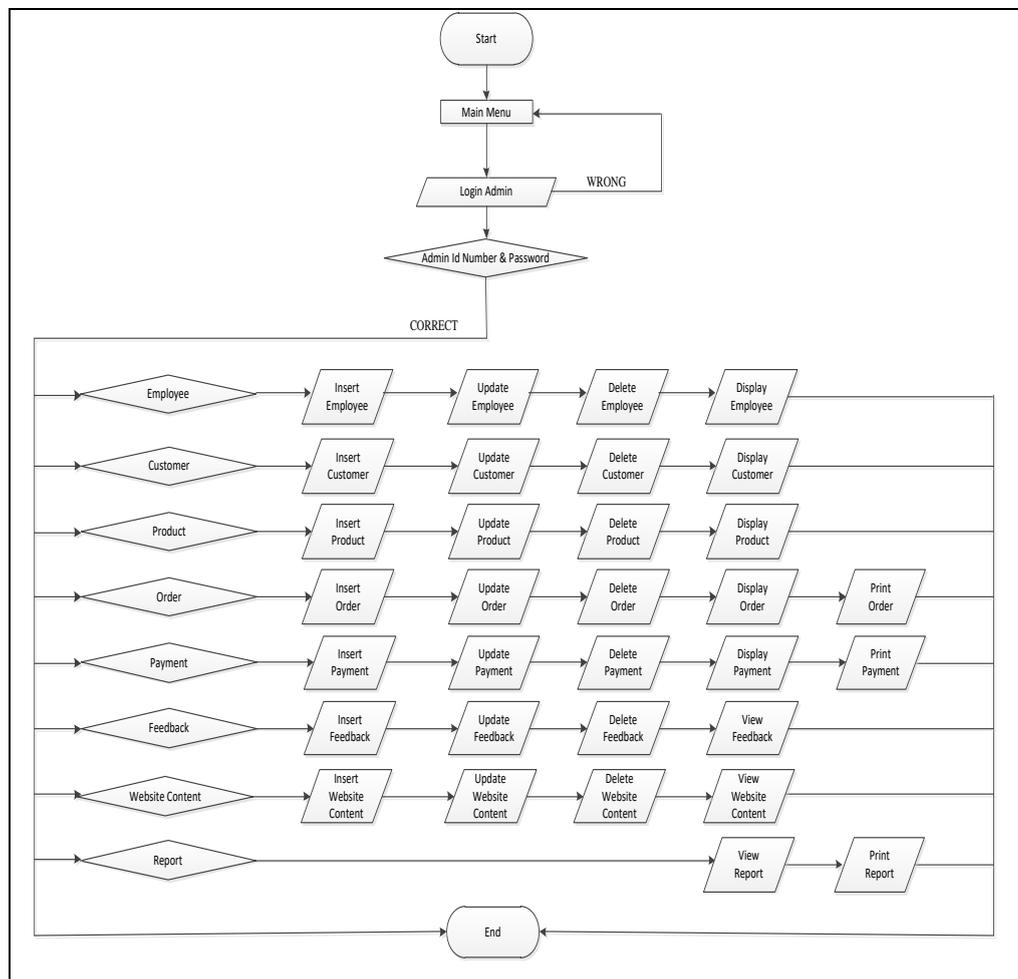


**Figure 3.04:        Admin Flow Chart**

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**b. Customer**

Figure 3.05 shows **ATD ONLINE SYSTEMS** Customer Flowchart.
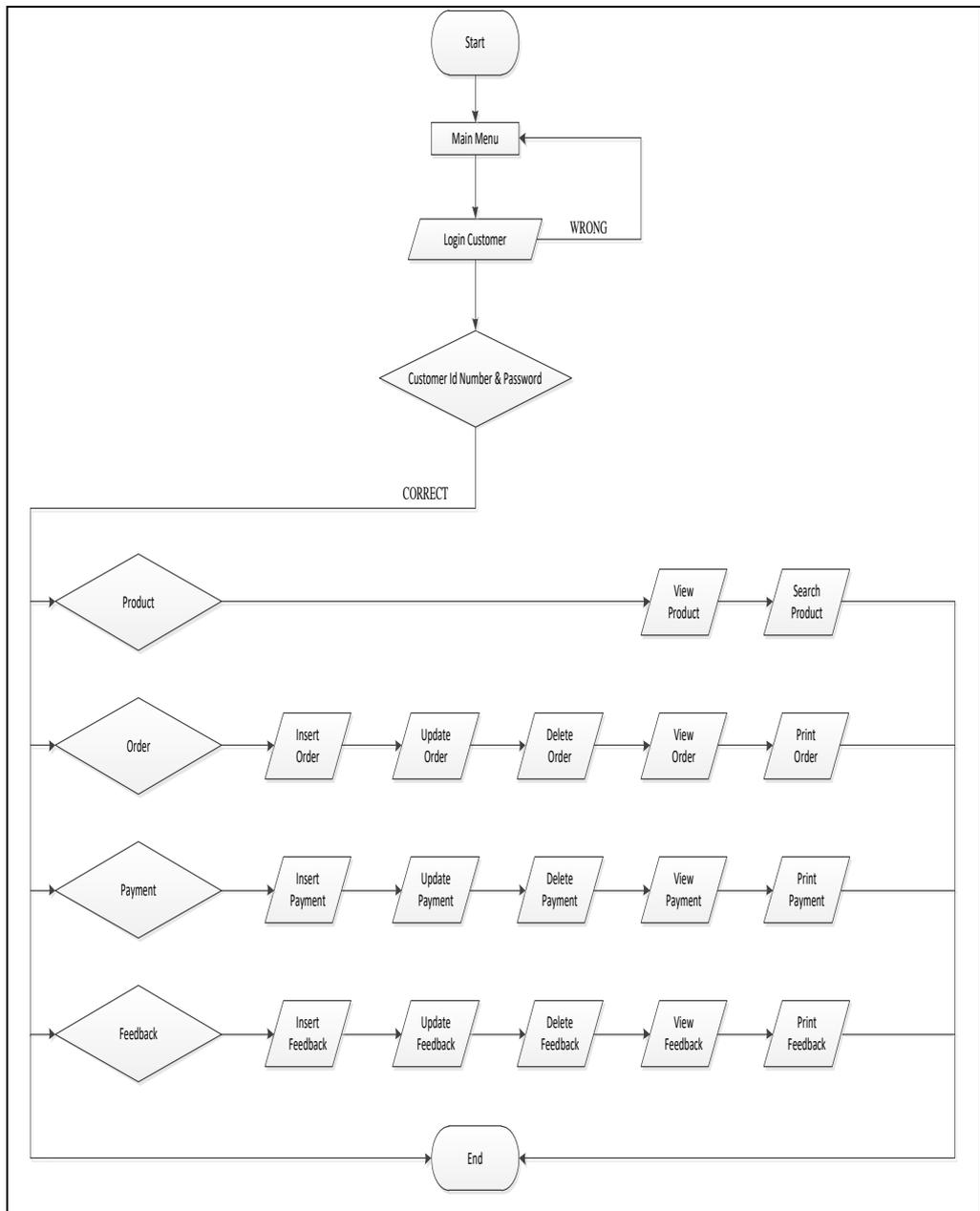


**Figure 3.05:    Customer Flow Chart**

**c. Employee**

Figure 3.06 shows **ATD ONLINE SYSTEMS** Employee Flowchart.
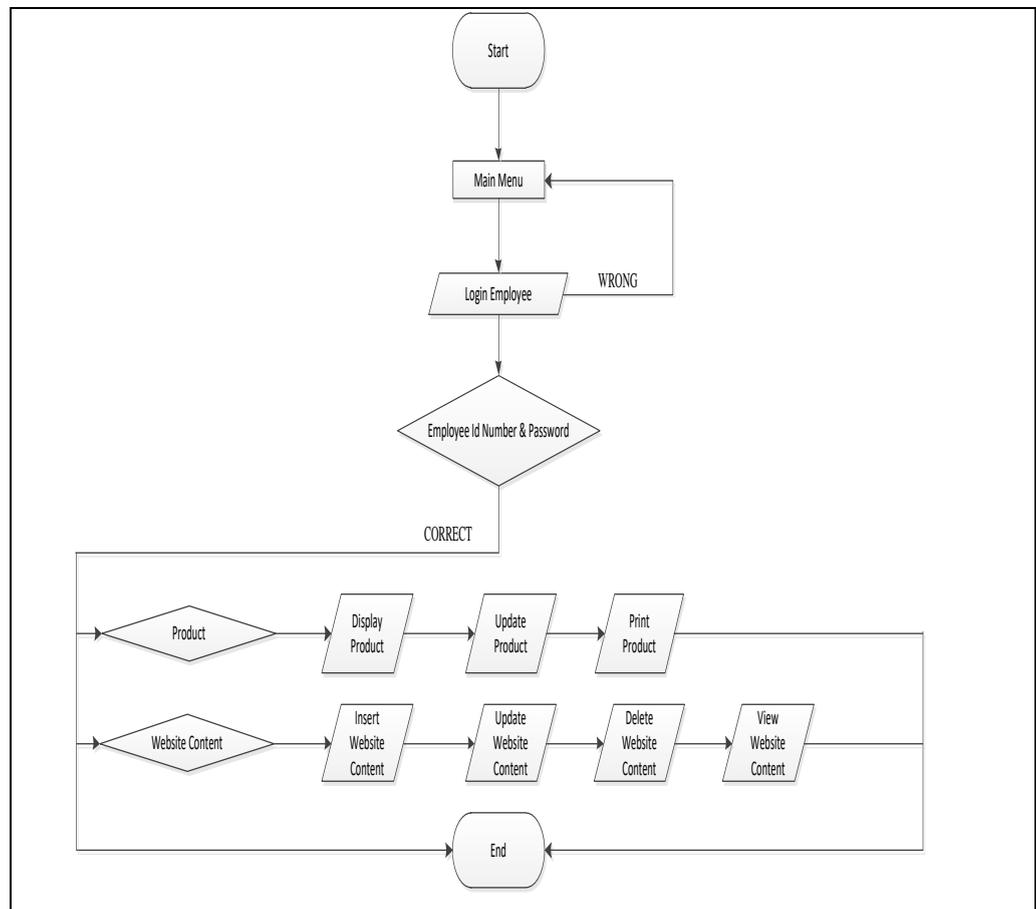


**Figure 3.06:    Employee Flow Chart**

**3.6    Logical System Design**

Before the development of the system, designing the system for ATD Online Systems by using Microsoft Visio and Microsoft Word in order to develop the system into a more systematic and seamlessly.

**a.    Main Page**

Figure 3.07 shows the Main Page interface for **ATD ONLINE SYSTEMS**. Table 3.03 shows the descriptions and function of the Main Page.
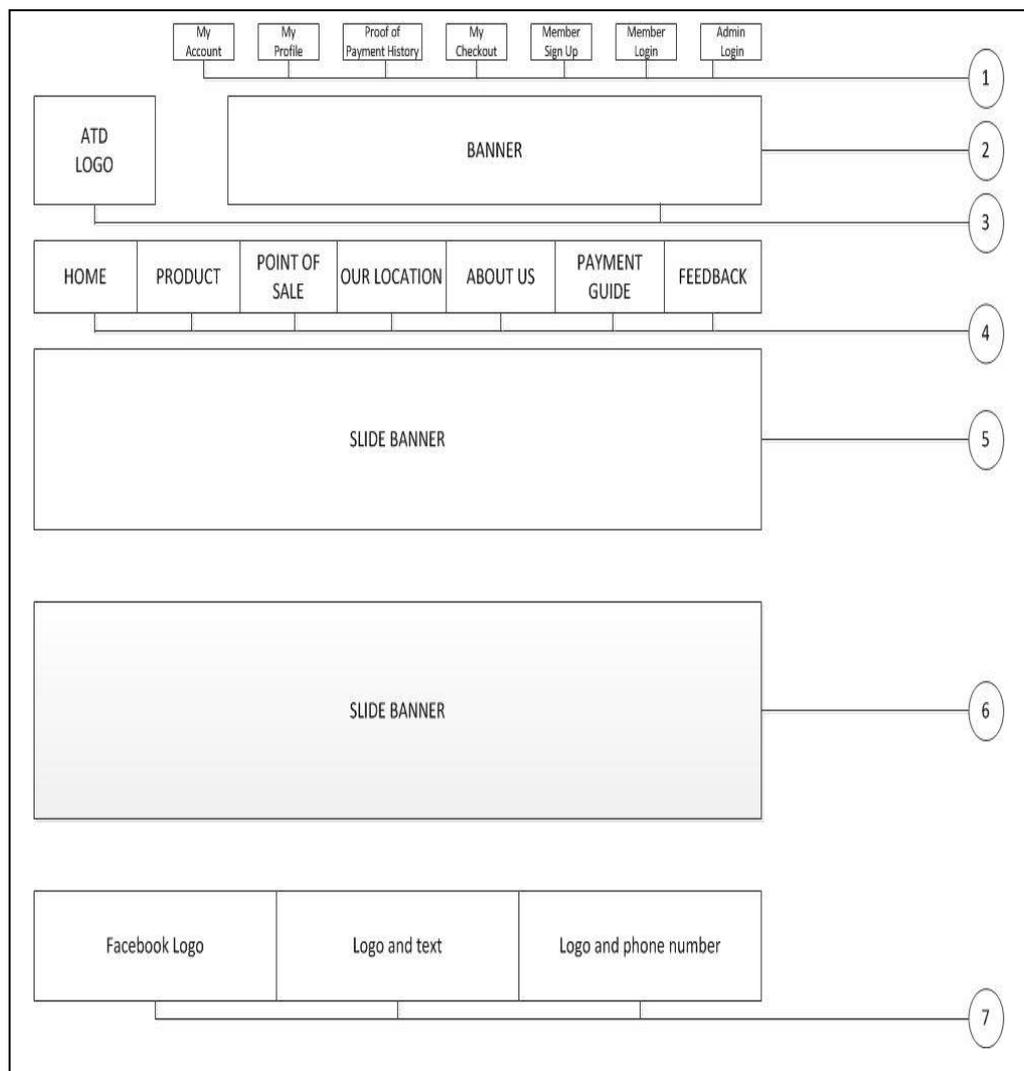


**Figure 3.07: Main Page Interface Storyboard**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Slide Banner | Slide Banner | Display the slideshow banner |
| 6 | Slide Banner | Slide Banner | Display the slideshow banner |
| 7 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.03: Main Page Interface Description**

b.  **Member Sign Up Login**

Figure 3.08 shows the Member Sign Up Login interface for **ATD ONLINE SYSTEMS**.

Table 3.04 shows the descriptions and function of the Member Sign Up Login.
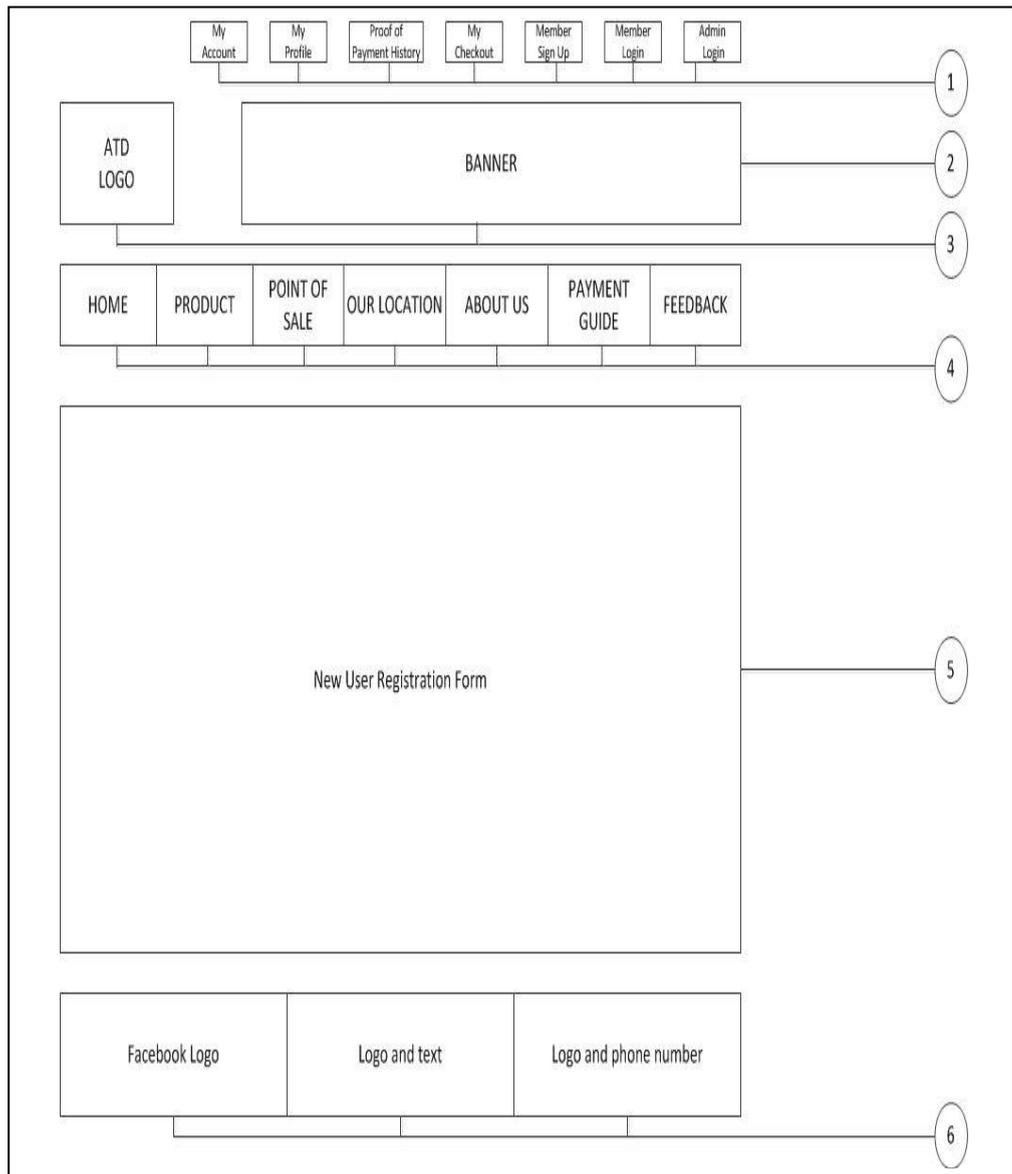


**Figure 3.08:    Member Sign Up Login**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Form | Customer Information | To fill in Customer Details |
| 6 | Button | Submit Button | To confirm Customer Details |
| 7 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.04: Member Sign Up Login Interface Description**

**c. Member Login**

Figure 3.09 shows the Member Login interface for **ATD ONLINE SYSTEMS**.

Table 3.05 shows the descriptions and function of the Member Login.



**Figure 3.09:    Member Login**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Text Field | Email | To fill in Customer Email Address |
| 6 | Text Field | Password | To fill in Customer Password |
| 7 | Button | Submit Button | Submit Button for user |
| 8 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.05:  Member Login Interface Description**

### d. Product Page

Figure 3.10 shows the product page interface for **ATD ONLINE SYSTEMS**.

Table 3.06 shows the descriptions and function of the Product Page.



**Figure 3.10:    Product Page**

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| No | Type | Name | Function |
|----|------|------|----------|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Image | Product 1 | To show our Product 1 |
| 6 | Image | Product 2 | To show our Product 2 |
| 7 | Image | Product 3 | To show our Product 3 |
| 8 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.06:  Product Page Interface Description**

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### e. Point of Sale Page

Figure 3.11 shows the Point of Sale Page interface for **ATD ONLINE SYSTEMS**.

Table 3.07 shows the descriptions and function of the Point of Sale Page.
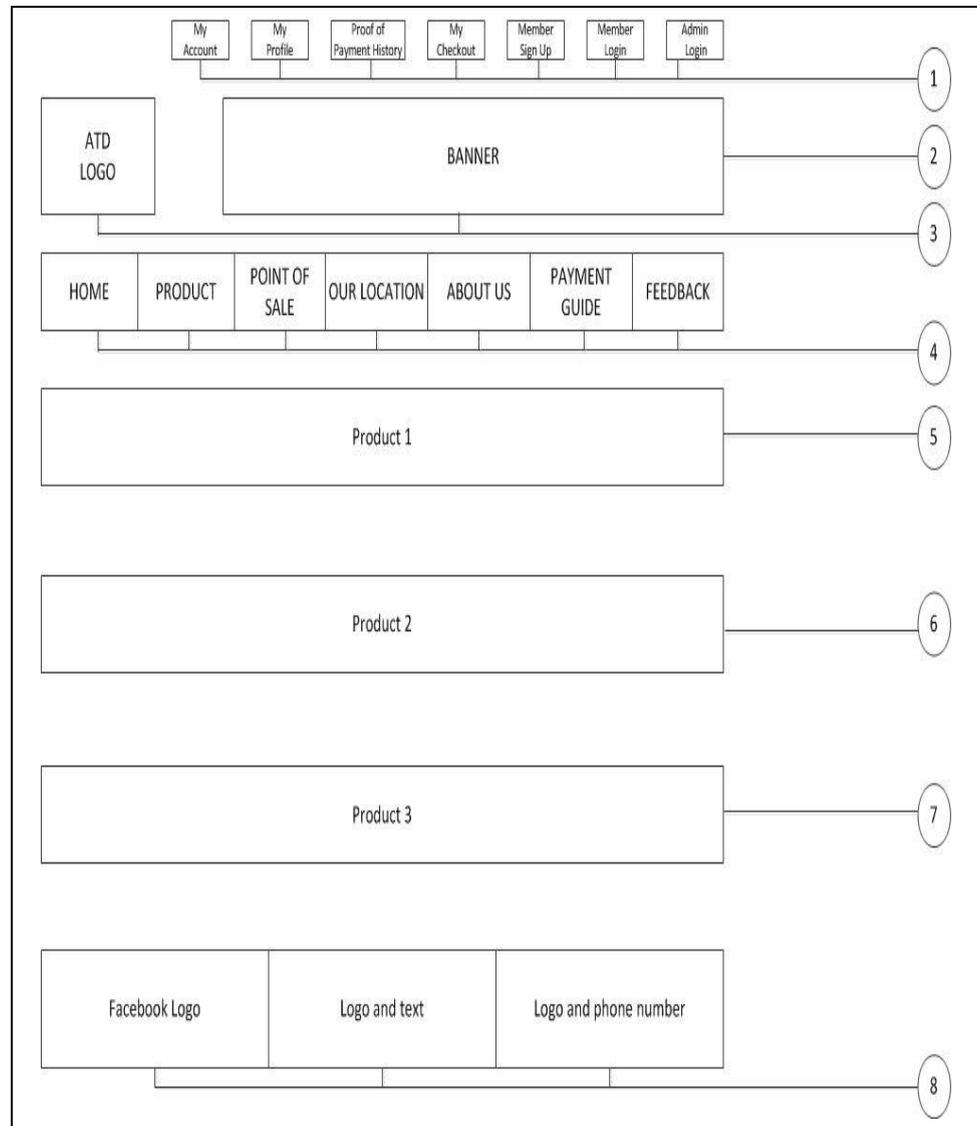


**Figure 3.11:    Point of Sale Page**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Image | Product 1 | To show our Product 1 |
| 6 | Image | Product 2 | To show our Product 2 |
| 7 | Image | Product 3 | To show our Product 3 |
| 8 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.07: Point of Sale Page Interface Description**

### f. Our Location Page

Figure 3.12 shows the Our Location Page interface for **ATD ONLINE SYSTEMS**.

Table 3.08 shows the descriptions and function of the Our Location Page.
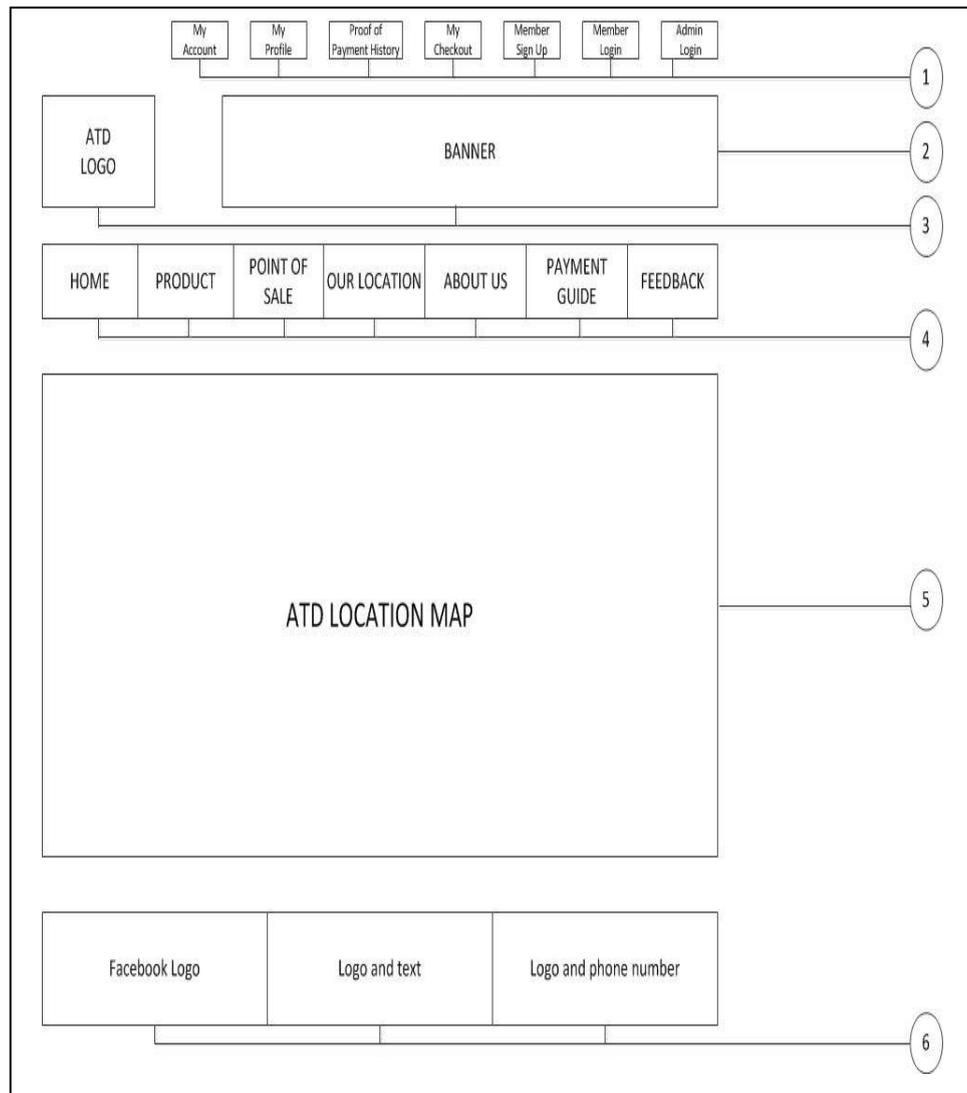


**Figure 3.12:    Our Location Page**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Map | ATD LOCATION MAP | To display the company location |
| 6 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.08:  Our Location Page Interface Description**

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### g. Payment Guide Page

Figure 3.13 shows the Payment Guide Page interface for **ATD ONLINE SYSTEMS**.

Table 3.09 shows the descriptions and function of the Payment Guide Page.
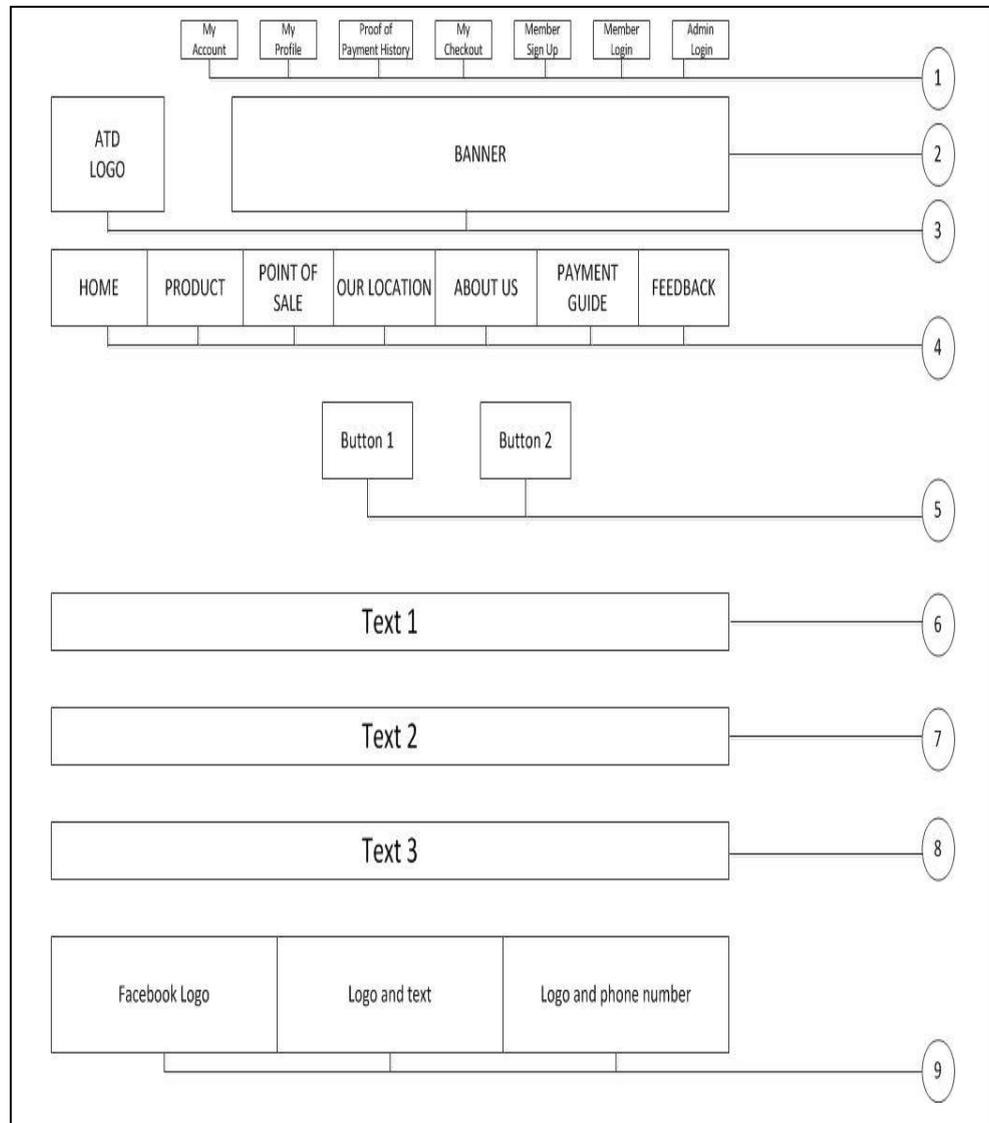


**Figure 3.13:    Payment Guide Page**

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| No | Type | Name | Function |
|----|------|------|----------|
| 1 | Hyperlink | My Account | Link to My Account page |
|   |   | My Profile | Link to My Profile page |
|   |   | Proof of Payment History | Link to Proof of Payment History page |
|   |   | My Checkout | Link to My Checkout page |
|   |   | Member Sign Up | Link to Member Sign Up page |
|   |   | Member Login | Link to Member Log In page |
|   |   | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
|   |   | Product | Link to Product Page |
|   |   | Point of Sale | Link to Point of Sale Page |
|   |   | Our Location | Link to Our Location Page |
|   |   | About Us | Link to About Us Page |
|   |   | Payment Guide | Link to Payment Guide Page |
|   |   | Feedback | Link to Feedback Page |
| 5 | Button | Button 1 | For English Language |
|   |   | Button 2 | For Malay Language |
| 6 | Text | Text 1 | To show the payment guide text 1 |
| 7 | Text | Text 2 | To show the payment guide text 2 |
| 8 | Text | Text 3 | To show the payment guide text 3 |
| 9 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
|   | Text and Logo | Logo and Text | To display on site services available message |
|   | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.09:  Payment Guide Page Interface Description**

### h. Customer Select Product Add to Cart

Figure 3.14 shows the Customer Select Product Add to Cart.

Table 3.10 shows the descriptions and function of the Customer Select Product Add to Cart.
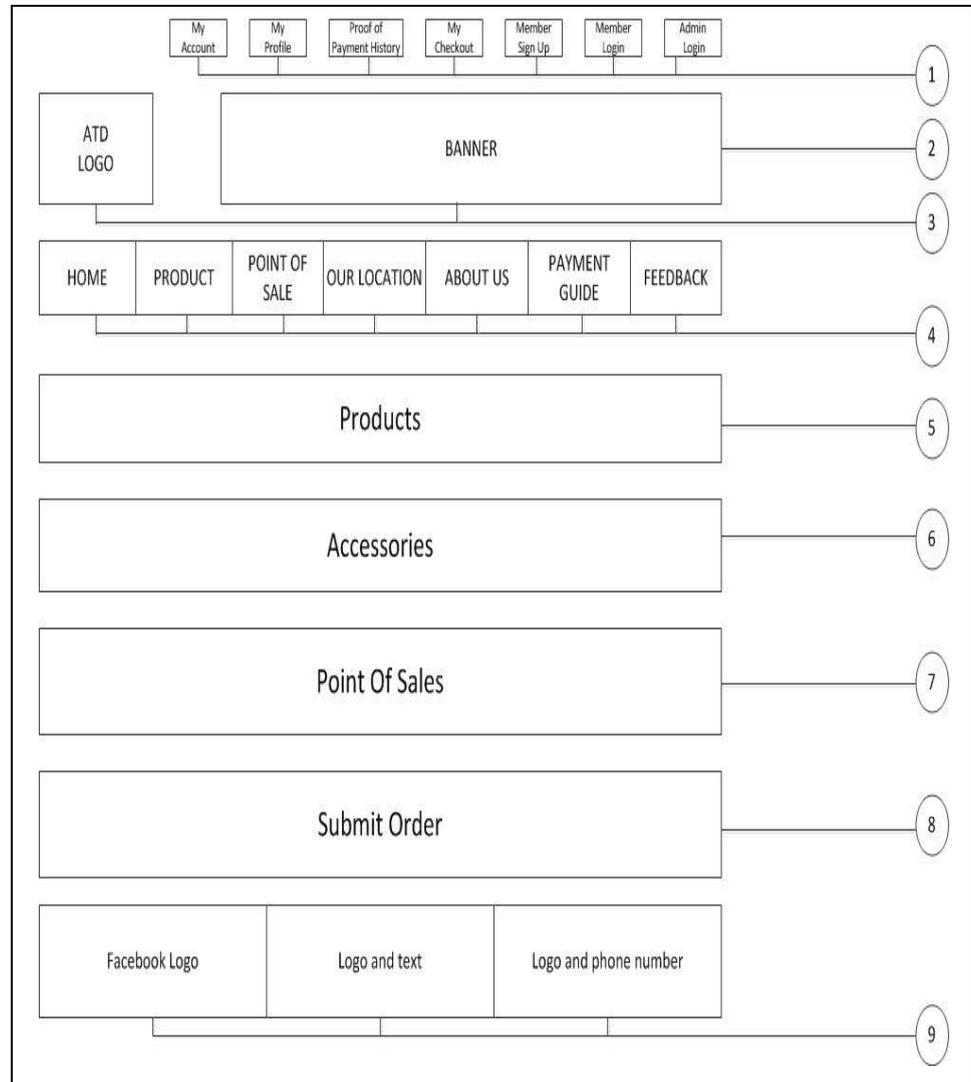


**Figure 3.14: Customer Select Product Add to Cart**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Image | Product Info | To show the selected product |
| 6 | Image | Accessories Info | To show the selected accessories |
| 7 | Image | Point of Sales | To show the selected point of sales |
| 8 | Form | Submit Order | To show the submit order form |

**Table 3.10:  Customer Select Product Add to Cart Interface Description.**

### i. Customer Edit My Profile

Figure 3.15 shows Customer Edit My Profile interface for **ATD ONLINE SYSTEMS**.

Table 3.11 shows the descriptions and function of the Customer Edit My Profile.
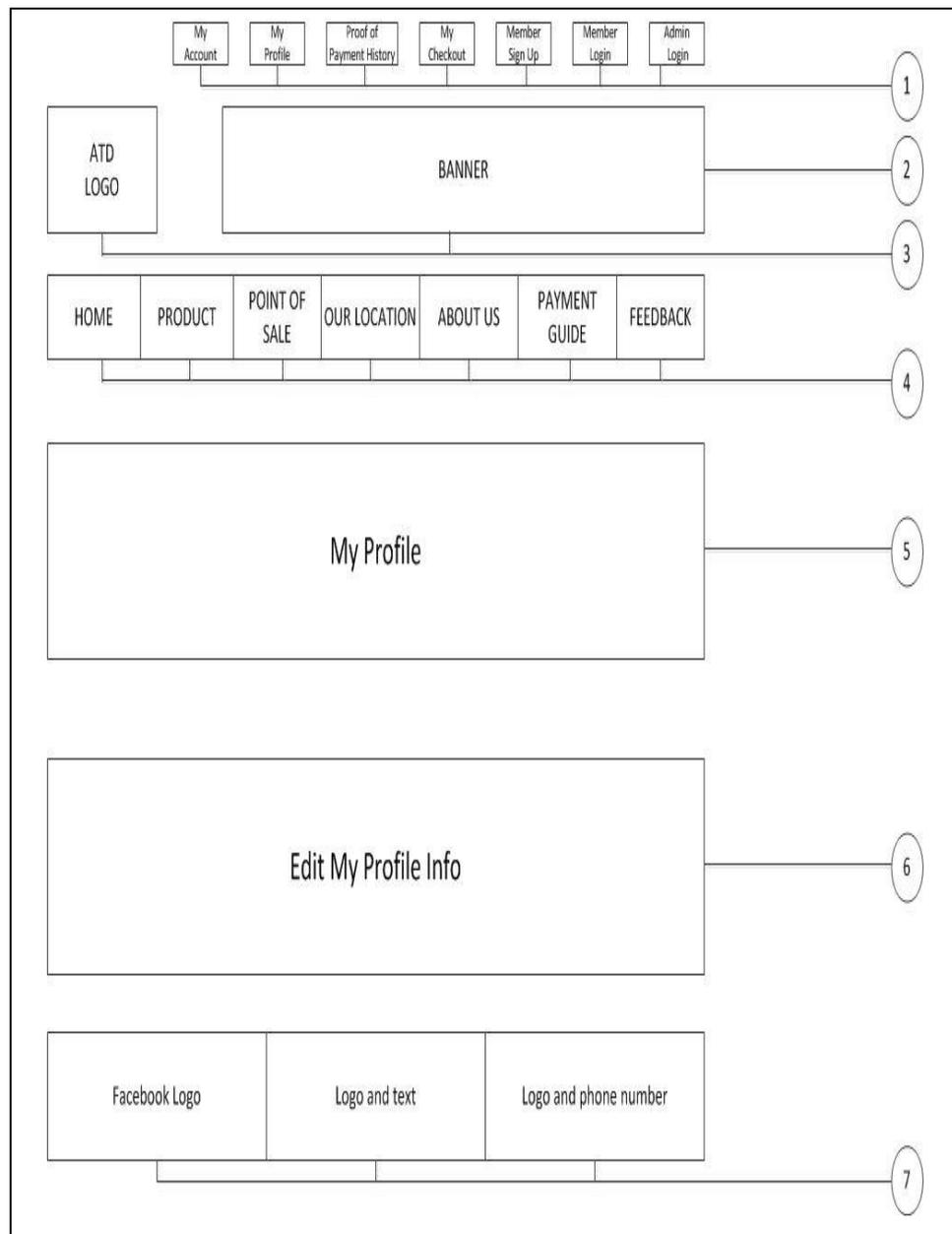


**Figure 3.15:  Customer Edit My Profile**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Text Field | My Profile | To let customer, fill in their profile |
| 6 | Text Field | Edit My Profile Info | To show the edit my profile info form |
| 7 | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.11: Customer Edit My Profile Interface Description.**

**j. Customer View My Account**

Figure 3.16 shows Customer View My Account interface for **ATD ONLINE SYSTEMS**.

Table 3.12 shows the descriptions and function of the Customer View My Account.
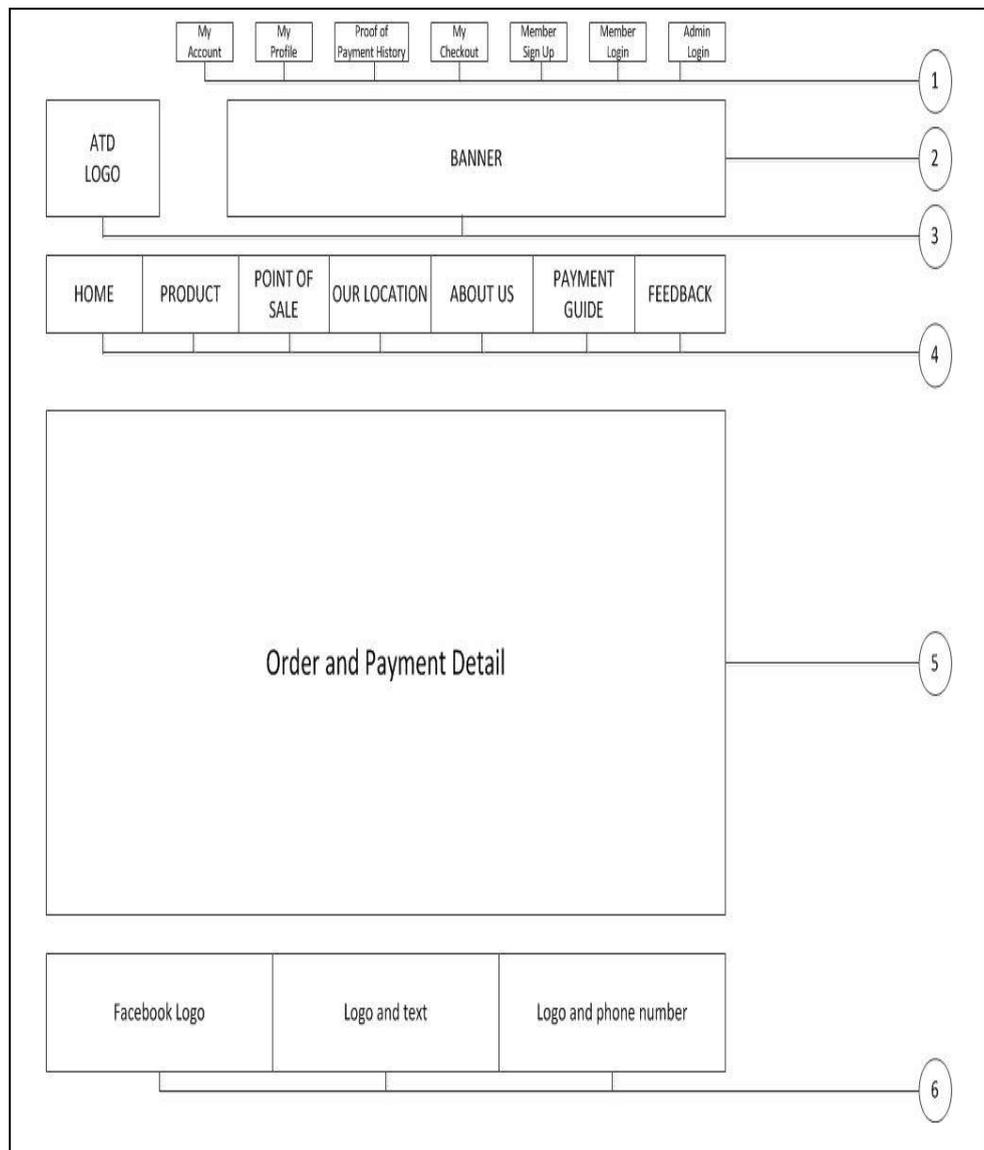


**Figure 3.16:    Customer View My Account**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Text Box | Order and Payment Detail | To show all orders and payment history records |
| | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| 6 | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.12:   Customer View My Account Interface Description.**

**k. Admin Login**

Figure 3.17 shows the Admin Login interface for **ATD ONLINE SYSTEMS**.

Table 3.13 shows the descriptions and function of the Admin Login
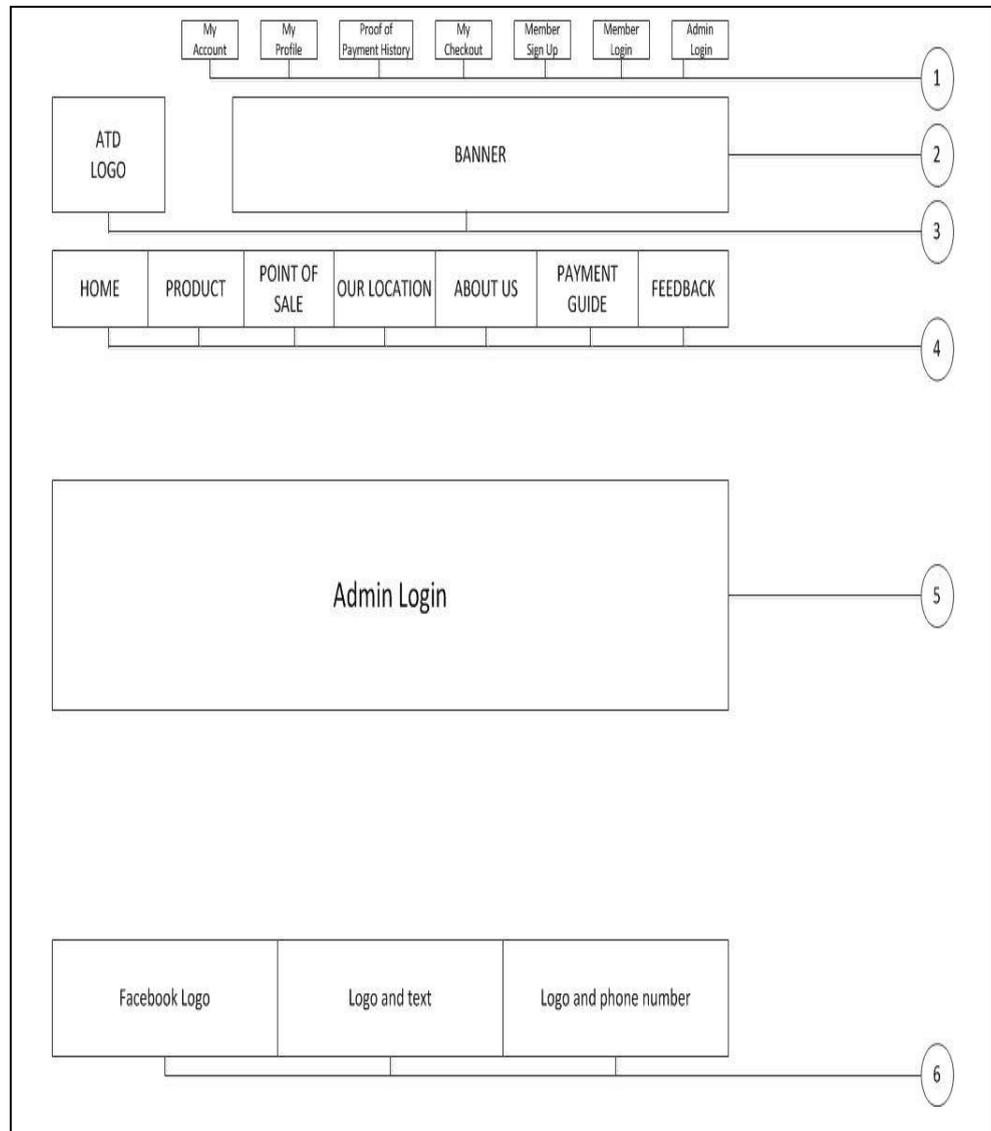


**Figure 3.17:    Admin Login Page**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Hyperlink | My Account | Link to My Account page |
| | | My Profile | Link to My Profile page |
| | | Proof of Payment History | Link to Proof of Payment History page |
| | | My Checkout | Link to My Checkout page |
| | | Member Sign Up | Link to Member Sign Up page |
| | | Member Login | Link to Member Log In page |
| | | Admin Login | Link to Admin Log In page |
| 2 | Banner | Banner | Display the banner |
| 3 | Icon | ATD Logo | Display the company's logo |
| 4 | Navigation bar | Home | Link to Home Page |
| | | Product | Link to Product Page |
| | | Point of Sale | Link to Point of Sale Page |
| | | Our Location | Link to Our Location Page |
| | | About Us | Link to About Us Page |
| | | Payment Guide | Link to Payment Guide Page |
| | | Feedback | Link to Feedback Page |
| 5 | Form | Admin Login | To display admin log in form |
| | Facebook Hyperlink | Facebook Logo | Go to our company's Facebook Page |
| 6 | Text and Logo | Logo and Text | To display on site services available message |
| | Text and Logo | Order Hotline Phone Number | To display order hotline contact number |

**Table 3.13:   Admin Login Page Interface Description**

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**l.   Admin Manage User**

Figure 3.18 shows the Admin Manage User interface for **ATD ONLINE SYSTEMS**.

Table 3.14 shows the descriptions and function of the Admin Manage User.
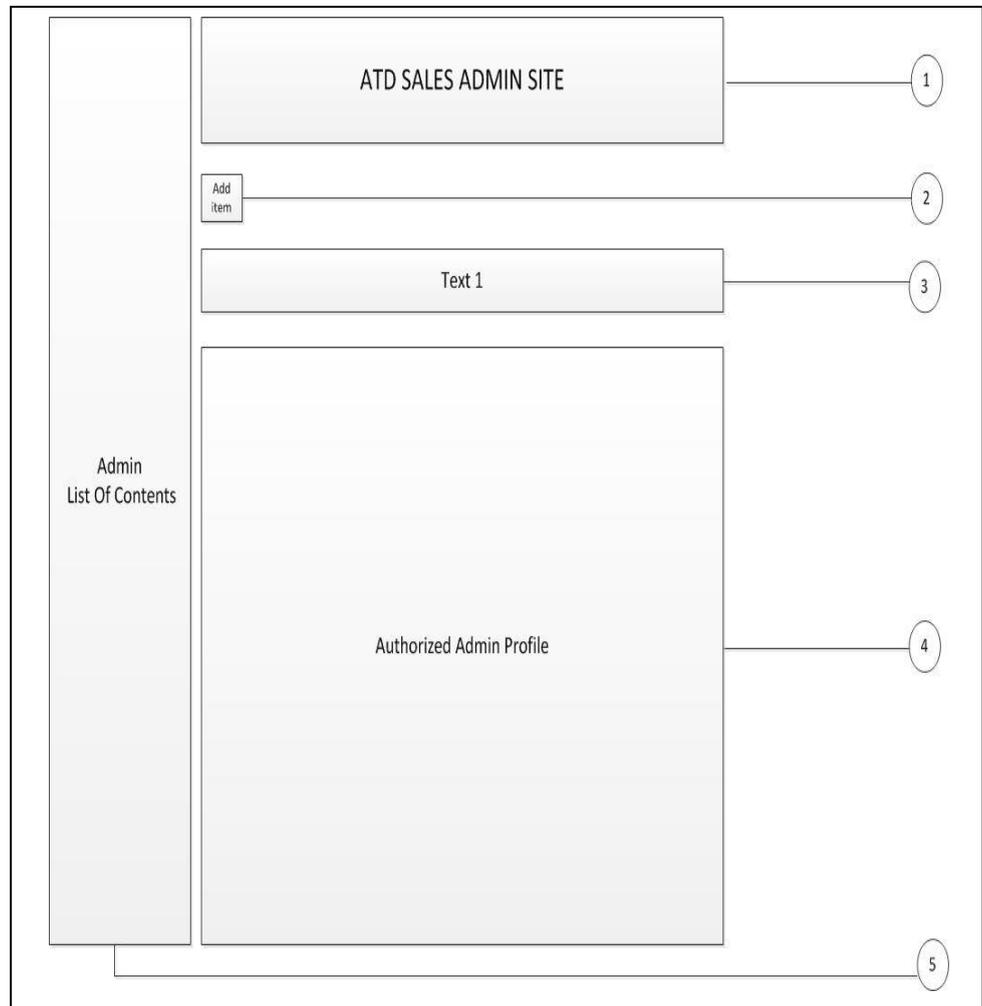


**Figure 3.18:   Admin Manage User Page**

| No | Type | Name | Function |
|----|------|------|----------|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Button | Add Item | For add new item |
| 3 | Text | Text 1 | To display the Form Title |
| 4 | Form | Authorized Admin Profile | To show list of admins |
| 5 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.14:  Admin Manage User Page Interface Description.**

m.  **Admin Manage Contact**

Figure 3.19 shows the Admin Manage Contact interface for **ATD ONLINE SYSTEMS**.

Table 3.15 shows the descriptions and function of the Admin Manage Contact.
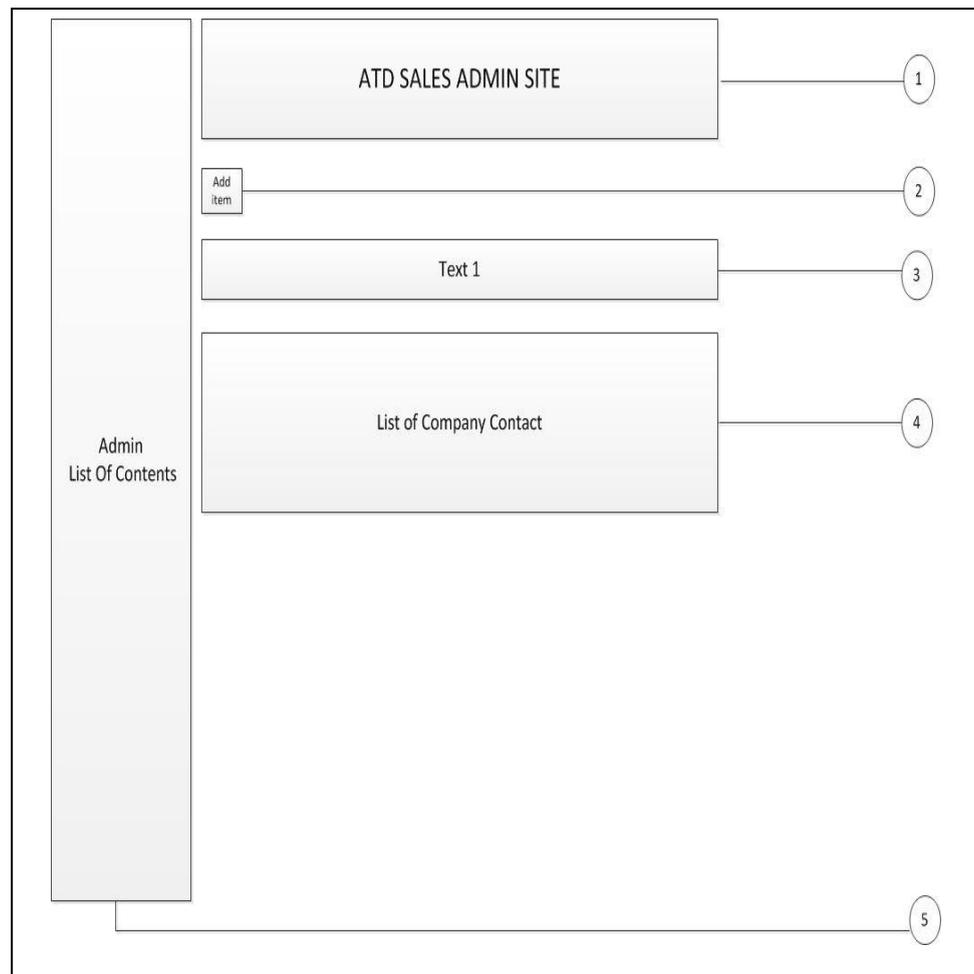


**Figure 3.19: Admin Manage Contact Page**

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| No | Type | Name | Function |
|----|------|------|----------|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Button | Add Item | For add new item |
| 3 | Text | Text 1 | To display the Form Title |
| 4 | Form | List of Company Contacts | To show the list of company contacts |
| 5 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.15:  Admin Manage Contact Page Interface Description**

**n. Admin Manage Customer**

Figure 3.20 shows Admin Manage Customer interface for **ATD ONLINE SYSTEMS**.

Table 3.16 shows the descriptions and function of the Admin Manage Customer.
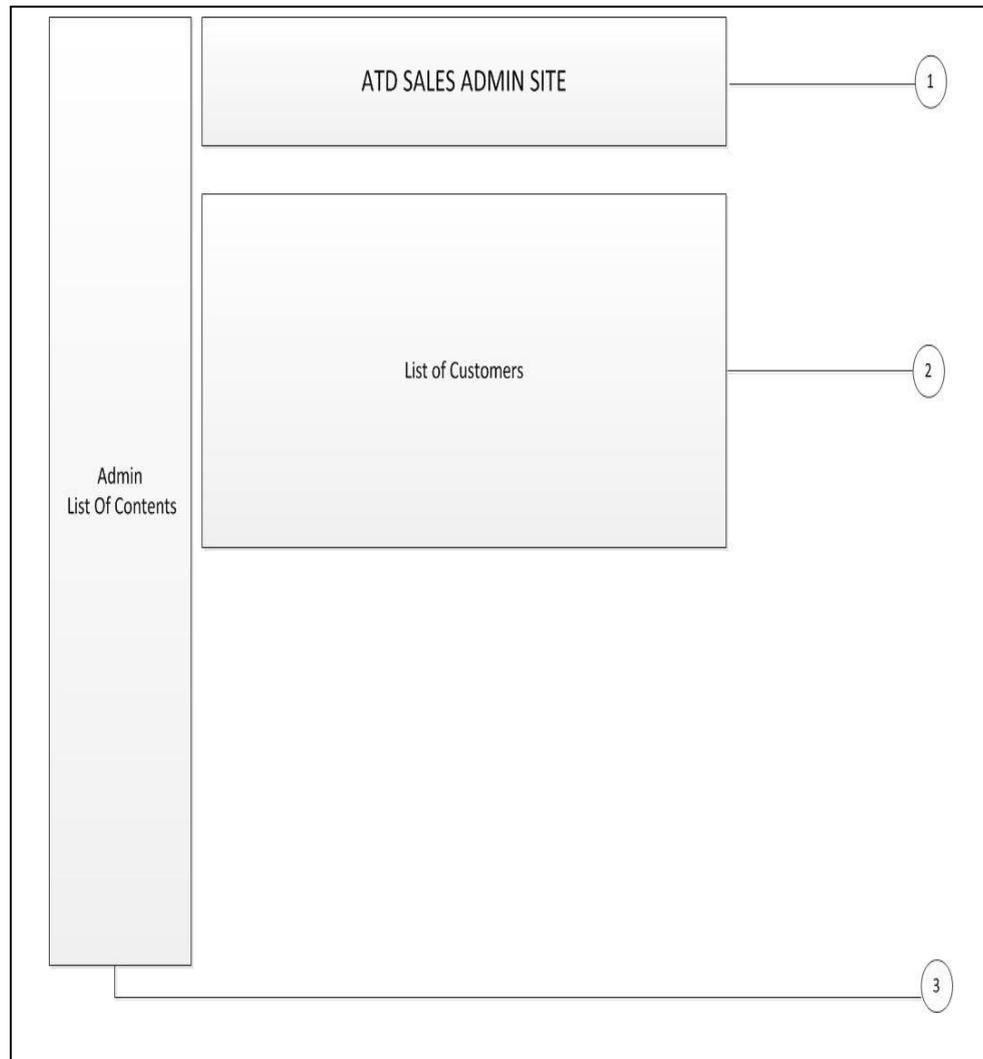


**Figure 3.20:    Admin Manage Customer**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Form | List of Customers | To show the list of Customers |
| 3 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.16:  View Admin Manage Customer Interface Description**

o. **Admin Manage Orders**

Figure 3.21 shows Admin Manage Orders interface for **ATD ONLINE SYSTEMS**.

Table 3.17 shows the descriptions and function of the Admin Manage Orders.
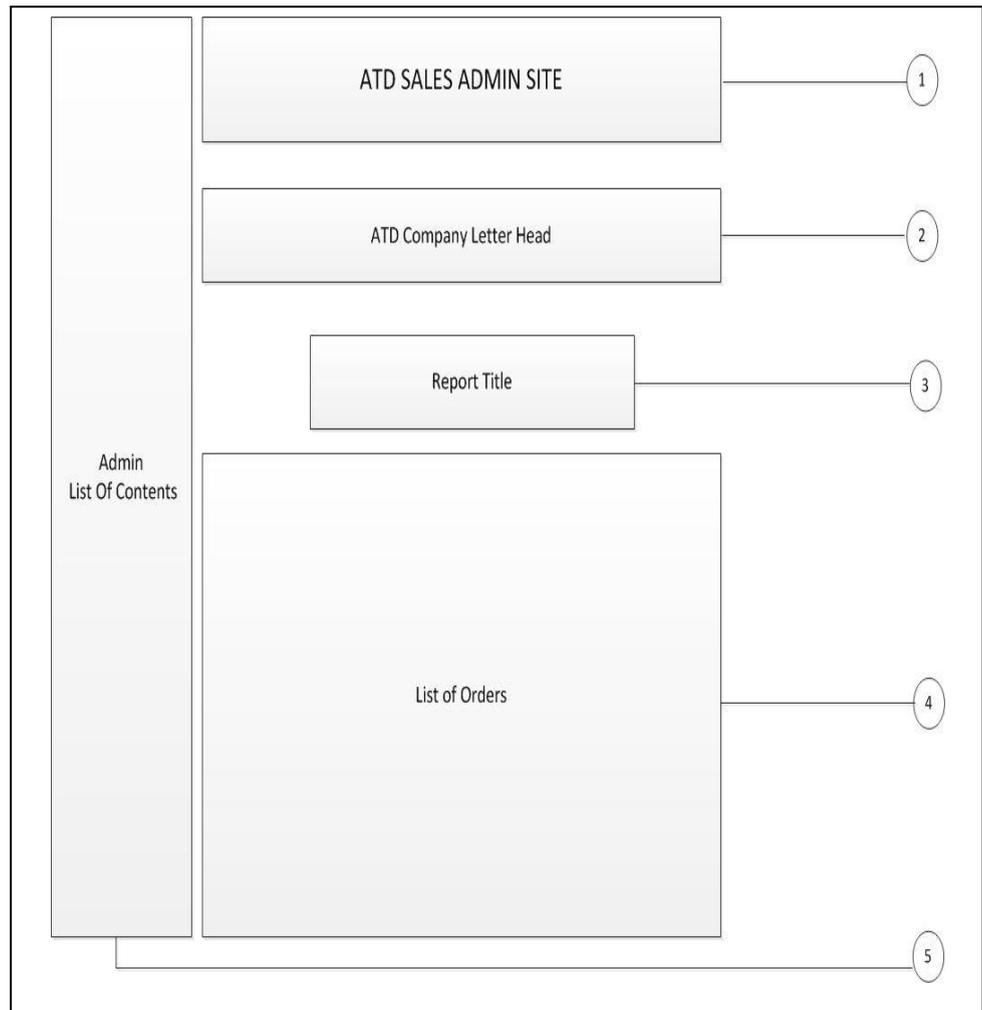


**Figure 3.21:    Admin Manage Orders**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Button | Add Item | For add new item |
| 3 | Text | Text 1 | To display the Form Title |
| 4 | Form | List of Orders | To show the list of Orders |
| 5 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.17:  Admin Manage Orders Page Interface Description**

**p. Admin Manage Sales Report**

Figure 3.22 shows Admin Manage Sales Report interface for **ATD ONLINE SYSTEMS**.

Table 3.18 shows the descriptions and function of the Admin Manage Sales Report.
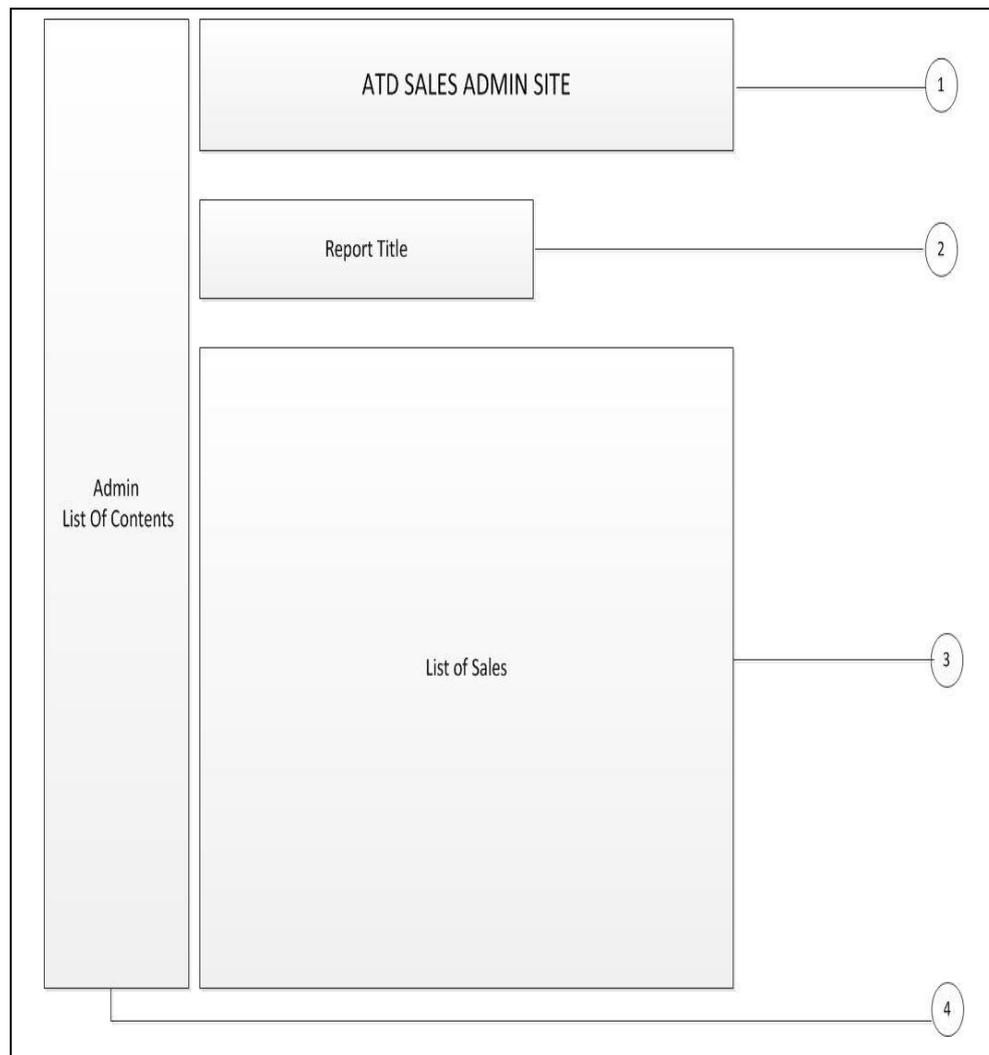


**Figure 3.22:    Admin Manage Sales Report**

| No | Type | Name | Function |
|---|---|---|---|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Text | Text 1 | To display the Form Title |
| 3 | Form | List of Sales | To show the list of Sales |
| 4 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.18:  Admin Manage Sales Report Page Interface**

**Description**

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**q. Admin Manage Product**

Figure 3.23 shows Admin Manage Product interface for **ATD ONLINE SYSTEMS**.

Table 3.19 shows the descriptions and function of the Admin Manage Product.
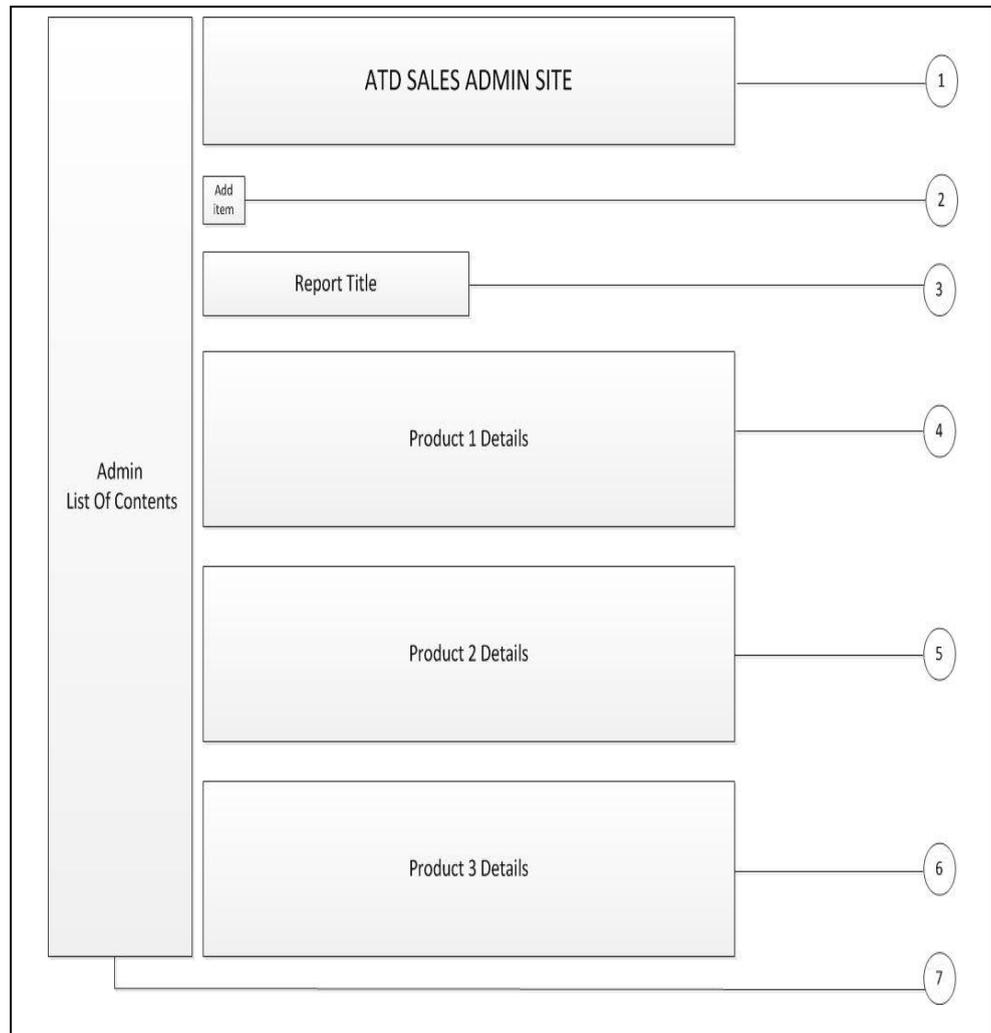


**Figure 3.23:    Admin Manage Product**

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| No | Type | Name | Function |
|---|---|---|---|
| 1 | Text | ATD Sales Admin Site | To display Admin Letter Head |
| 2 | Button | Add Item | For add new item |
| 3 | Text | Text 1 | To display the Form Title |
| 4 | Product Detail Bar | Product 1 Details | To show the product 1 details |
| 5 | Product Detail Bar | Product 2 Details | To show the product 2 details |
| 6 | Product Detail Bar | Product 3 Details | To show the product 3 details |
| 7 | Panel | List of Admin Contents | To display List of Admin Contents |

**Table 3.19:   Admin Manage Product Page Interface Description**

## 3.7    Physical Design

Physical design shows the Graphical User Interface (GUI) of **ATD ONLINE SYSTEMS**. GUI make use of menus, icons and windows to execute commands such as delete a file, open a file and move a file.

### a.  Main Page

Figure 3.24 shows the physical design of Main Page interface of **ATD ONLINE SYSTEMS.**



**Figure 3.24:   ATD Main Page Interface**

**b. Login Page**

Figure 3.25 shows the physical design of Login Page interface of **ATD ONLINE SYSTEMS.**
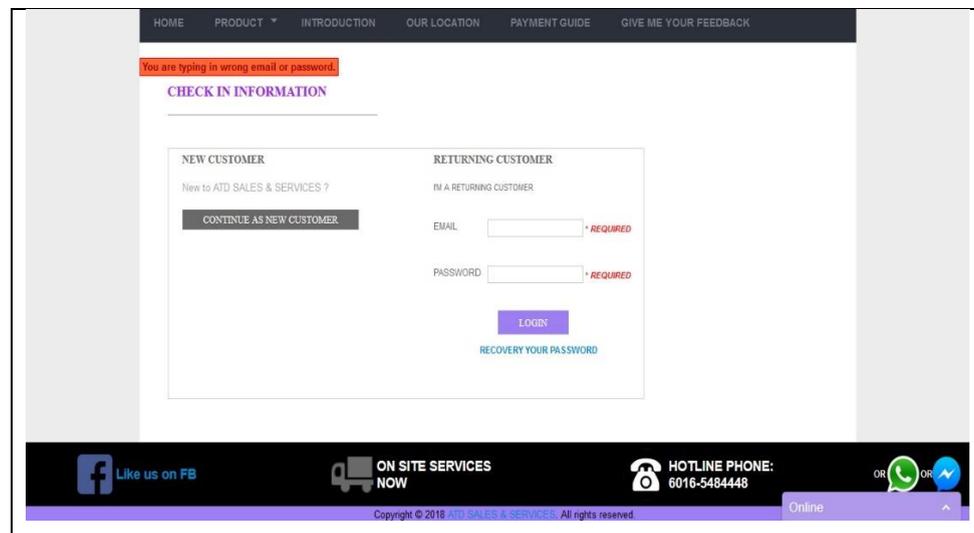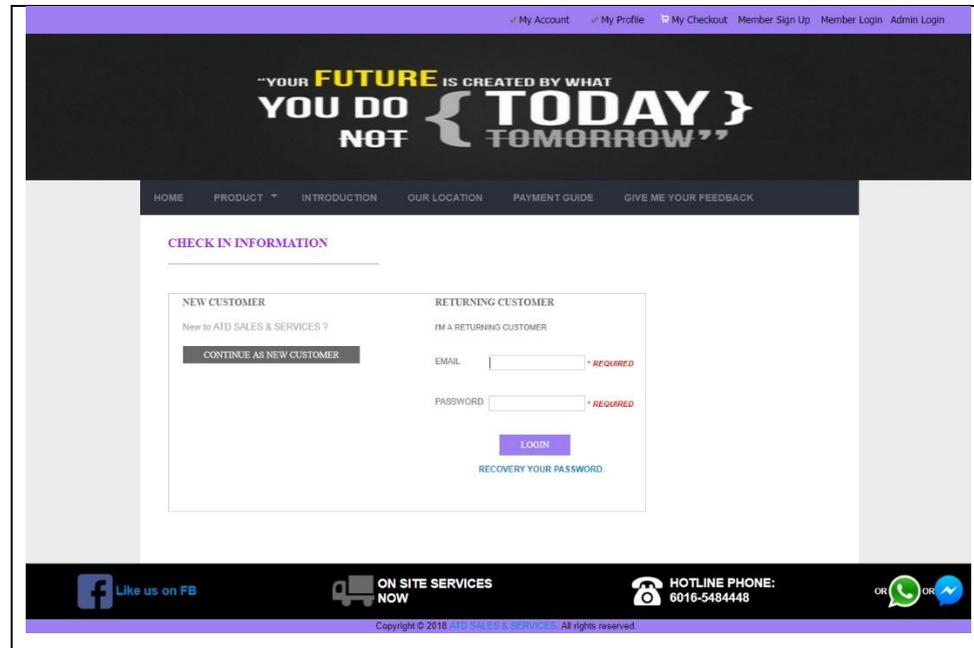




**Figure 3.25: ATD Login Page Interface**

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## c. New Customer Registration Form Page

Figure 3.26 shows the physical design of New Customer.

Registration Form Page interface of **ATD ONLINE SYSTEMS**.





**Figure 3.26:   ATD New Customer Registration Form Page**

**Interface**

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### d. Product Page

Figure 3.27 shows the physical design of Product Page interface of **ATD ONLINE SYSTEMS**.
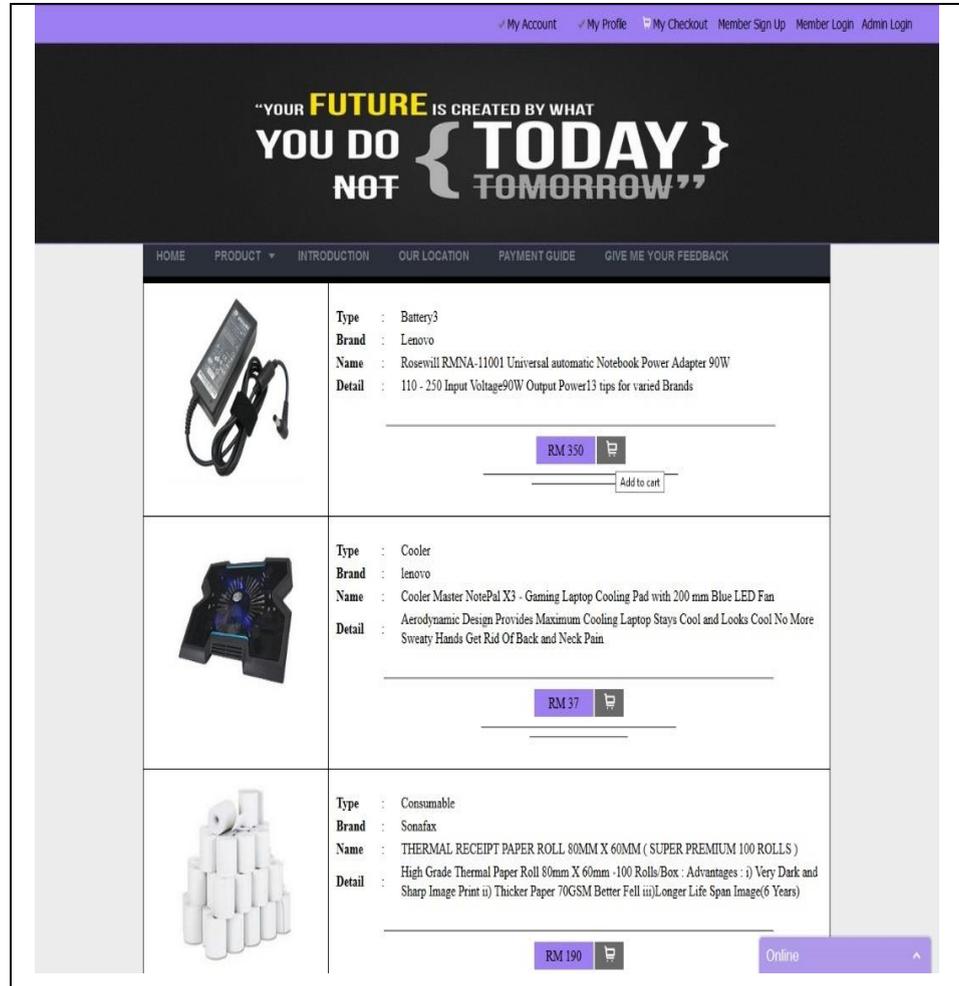


**Figure 3.27:   ATD Product Page Interface**

### e. Shopping Cart Page Interface

Figure 3.28 shows the physical design of Shopping Cart Page of **ATD ONLINE SYSTEMS**.
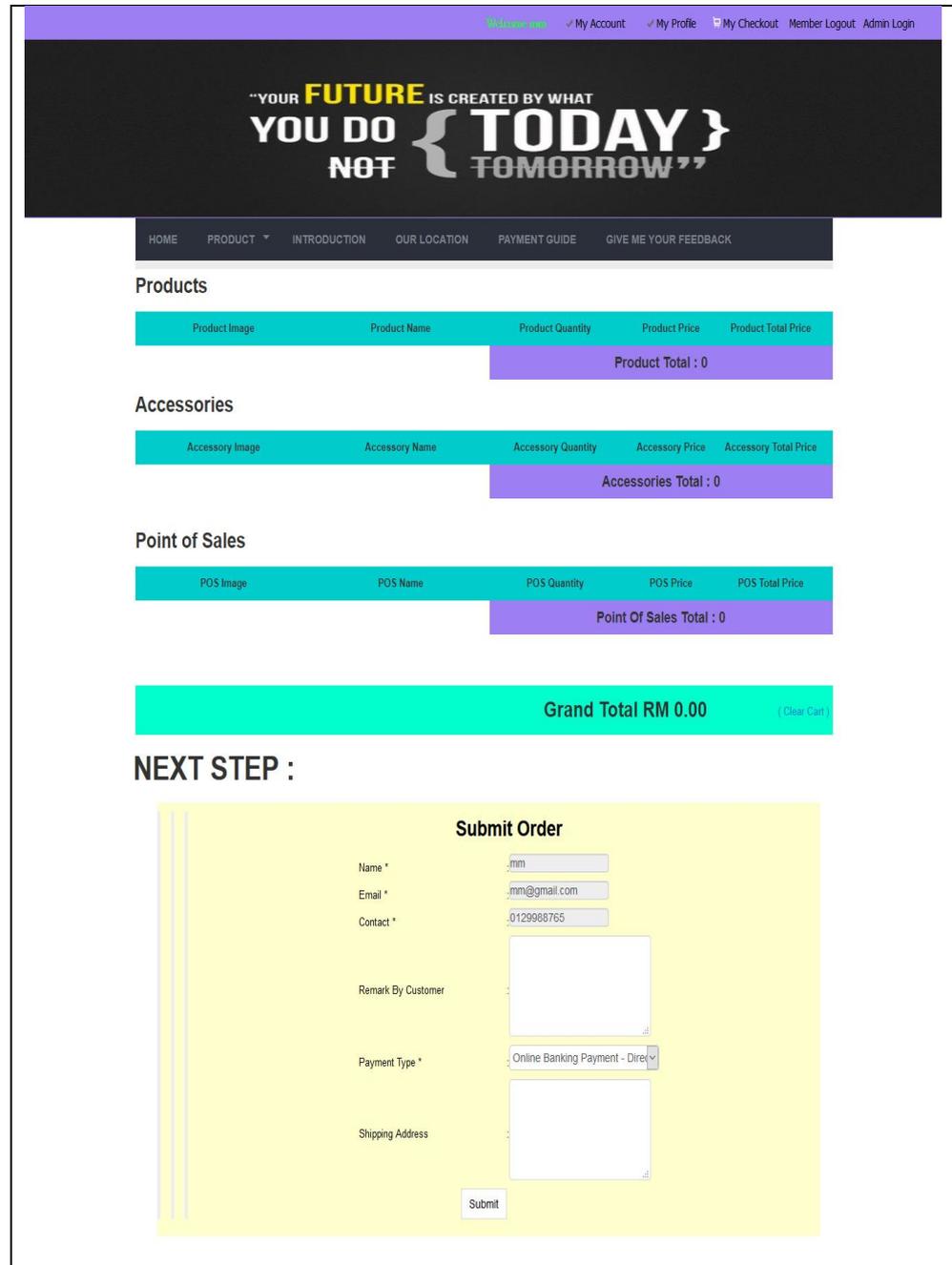


**Figure 3.28:   ATD Shopping Cart Page Interface**

**f. Shopping Cart Page Interface with Product Selected**

Figure 3.29 represents the physical interface of Shopping Cart Page with Product Selected of **ATD ONLINE SYSTEMS**.
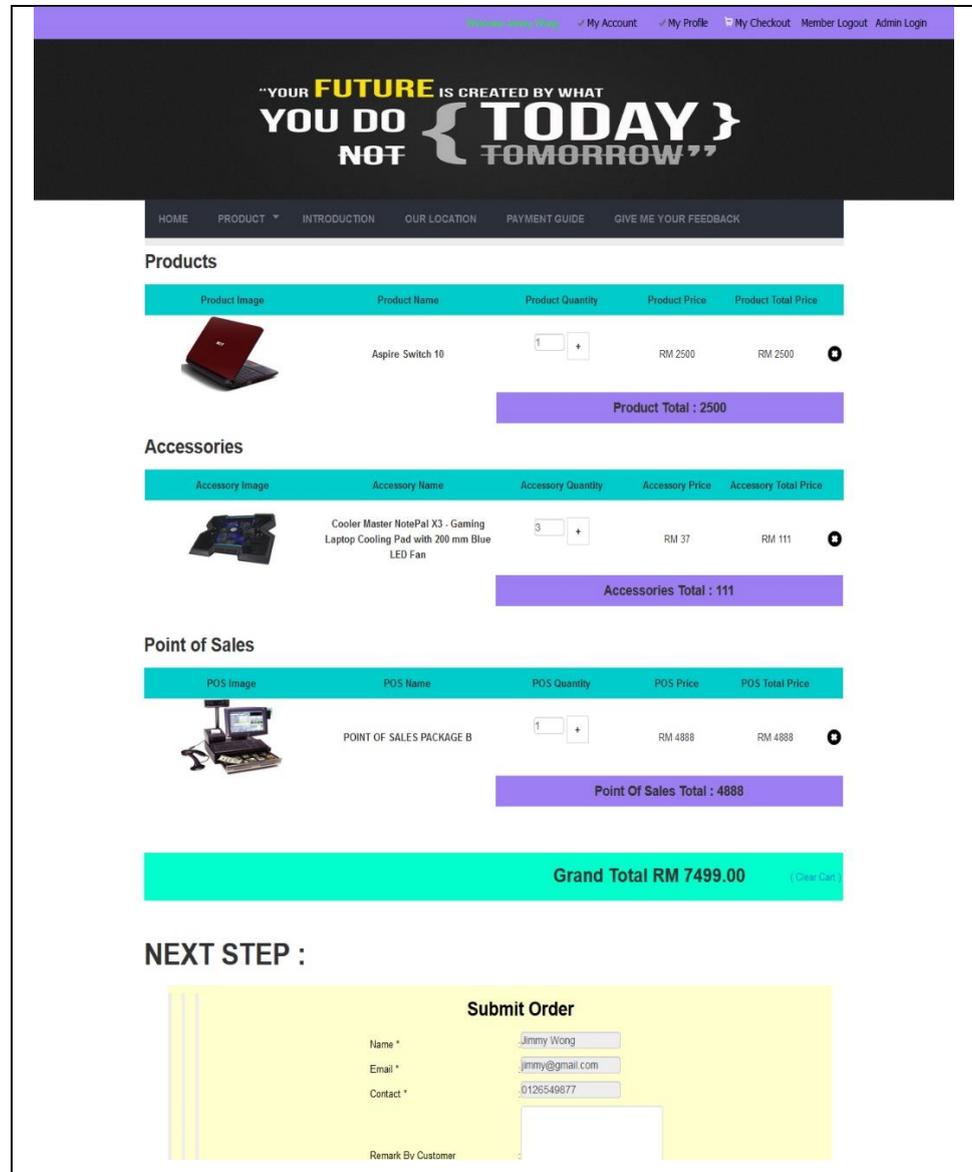


**Figure 3.29: ATD Shopping Cart with Product Selected Page Interface**

g.  **Payment Guide Page**

Figure 3.30 shows the physical design of Payment Guide Page interface of
**ATD ONLINE SYSTEMS**.
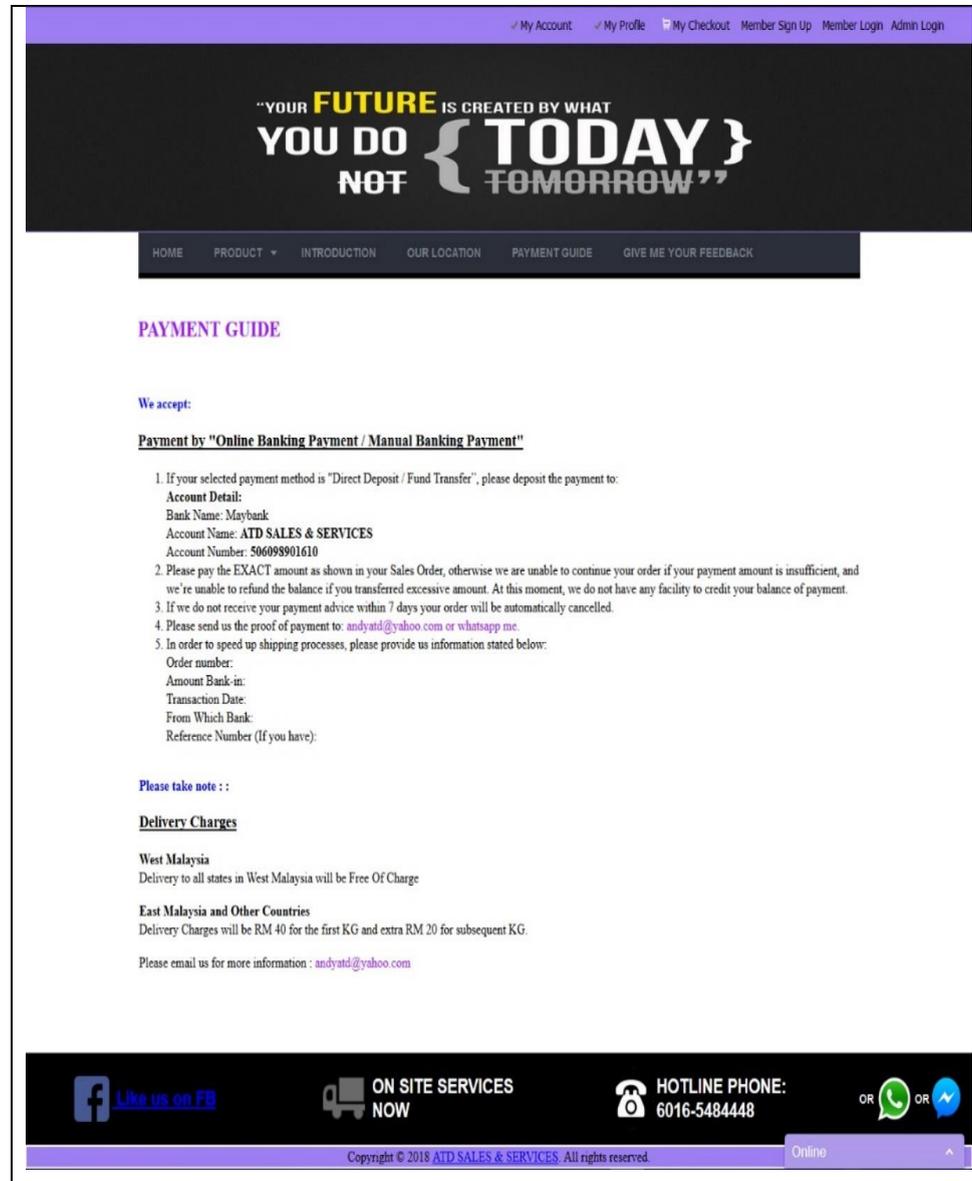


**Figure 3.30:   ATD Payment Guide Page Interface**

## h. Our Location Page

Figure 3.31 shows the physical design of Our Location Page interface of **ATD ONLINE SYSTEMS**.
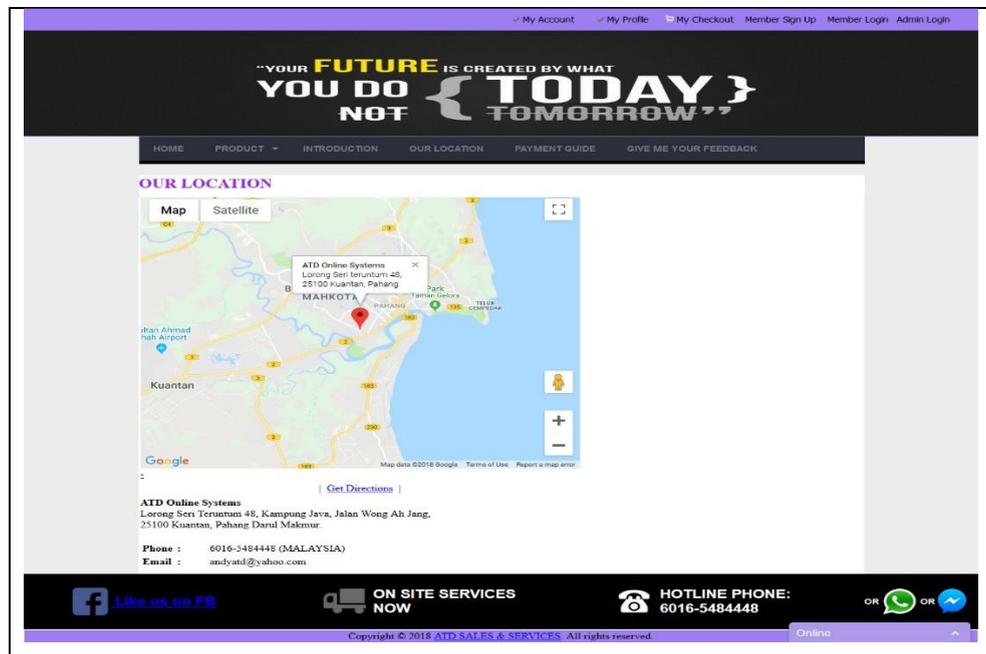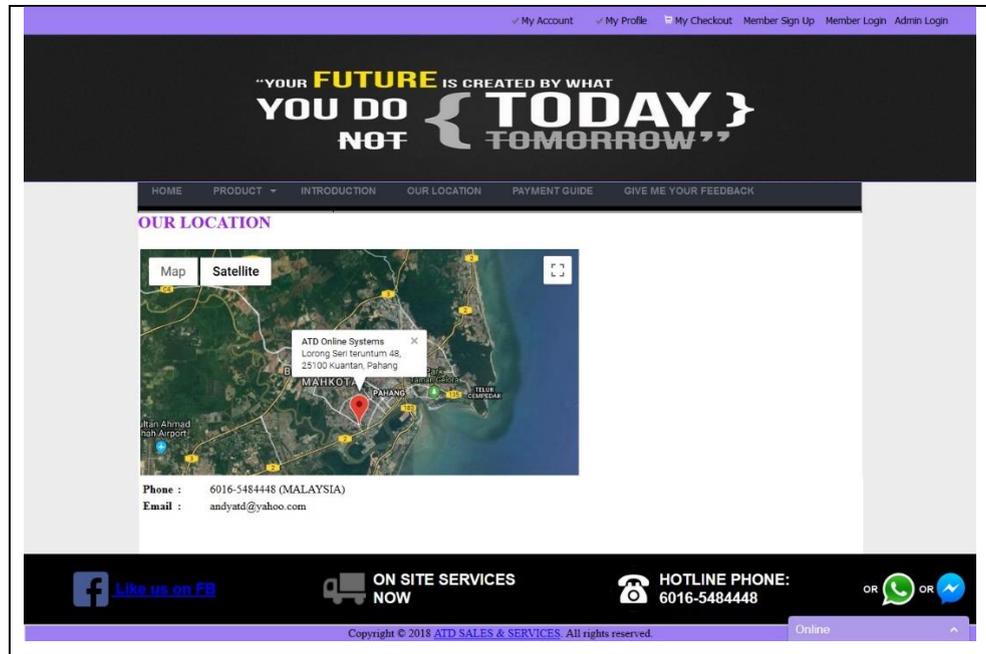




**Figure 3.31:   ATD Our Location Page Interface**

### i.  Direction Page – Get Direction to Our Destination

Figure 3.32 shows the physical design of Direction Page interface of **ATD ONLINE SYSTEMS**.
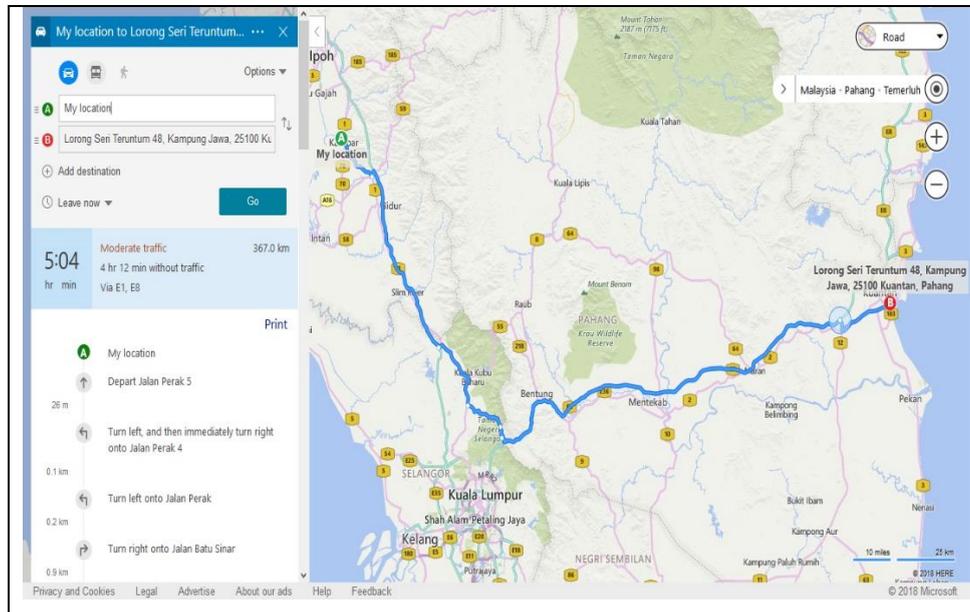


**Figure 3.32:   ATD Direction Page Interface**

### j.  Customer Member Profile with Empty Order Page

Figure 3.33 shows the physical design of Customer Member Profile with Empty Order Page interface of **ATD ONLINE SYSTEMS**.
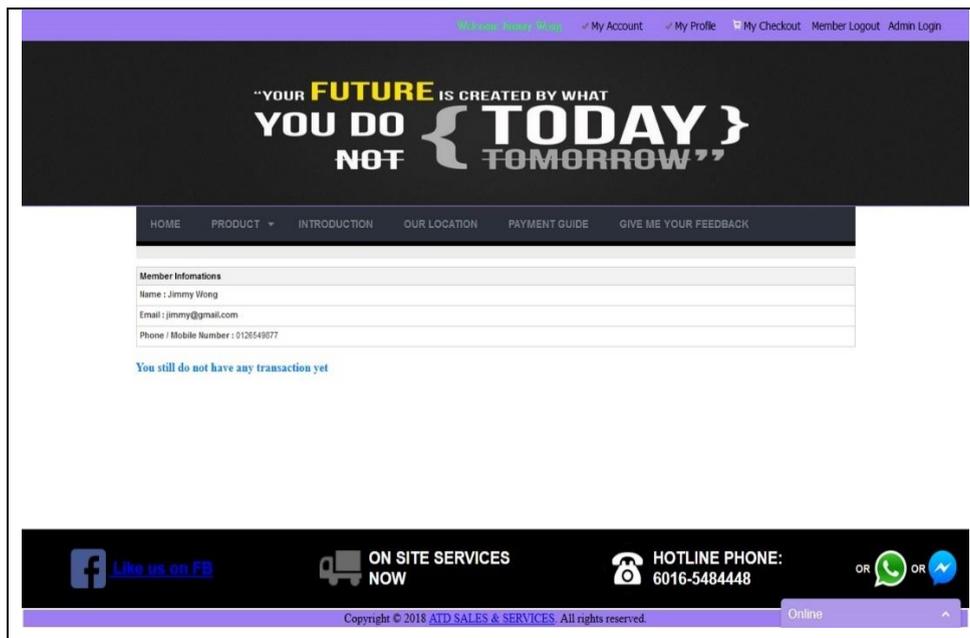


**Figure 3.33:   ATD Customer Member Profile with Empty Order Interface**

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### k. Customer Order Page

Figure 3.34 shows the physical design of Customer Order Page interface of **ATD ONLINE SYSTEMS**.
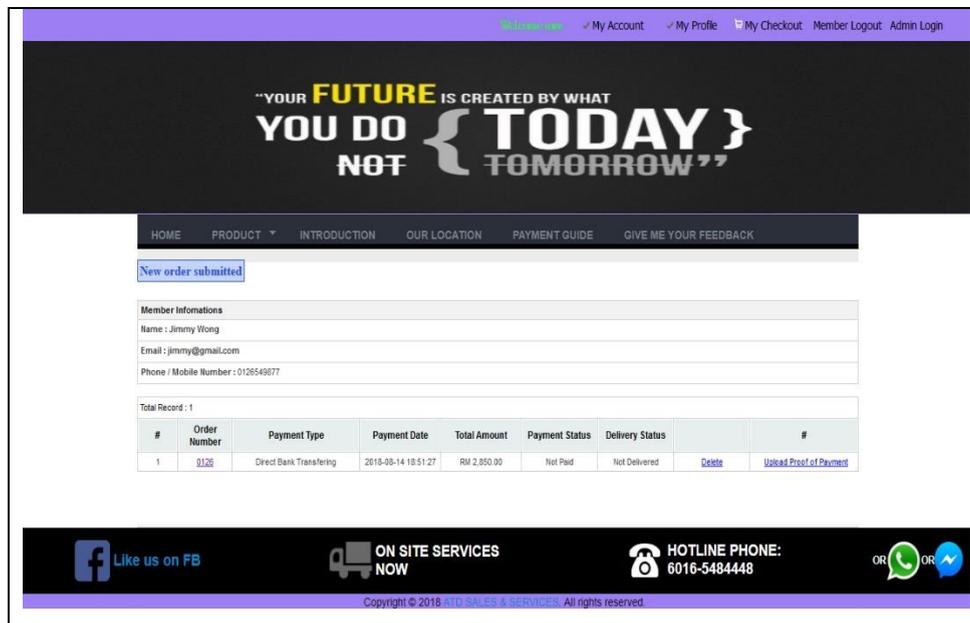


**Figure 3.34:  ATD Customer Order Page Interface**

### l. Customer Order History Page

Figure 3.35 shows the physical design of Customer Order History Page interface of **ATD ONLINE SYSTEMS**.
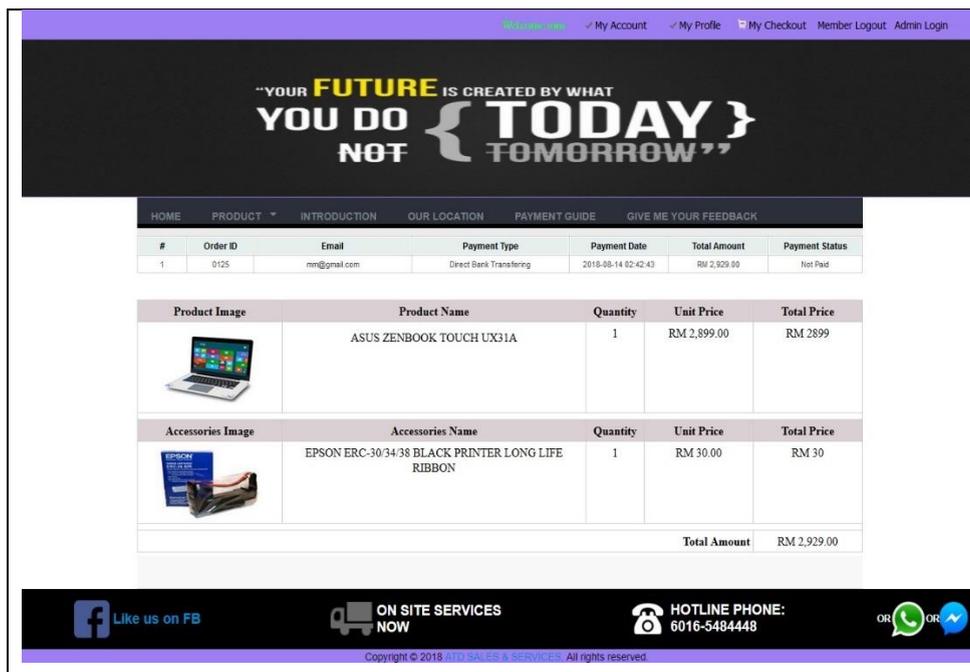


**Figure 3.35:  ATD Customer Order History Page Interface**

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**m.  Customer Profile Page**

Figure 3.36 shows the physical design of Customer Profile Page interface of **ATD ONLINE SYSTEMS**.
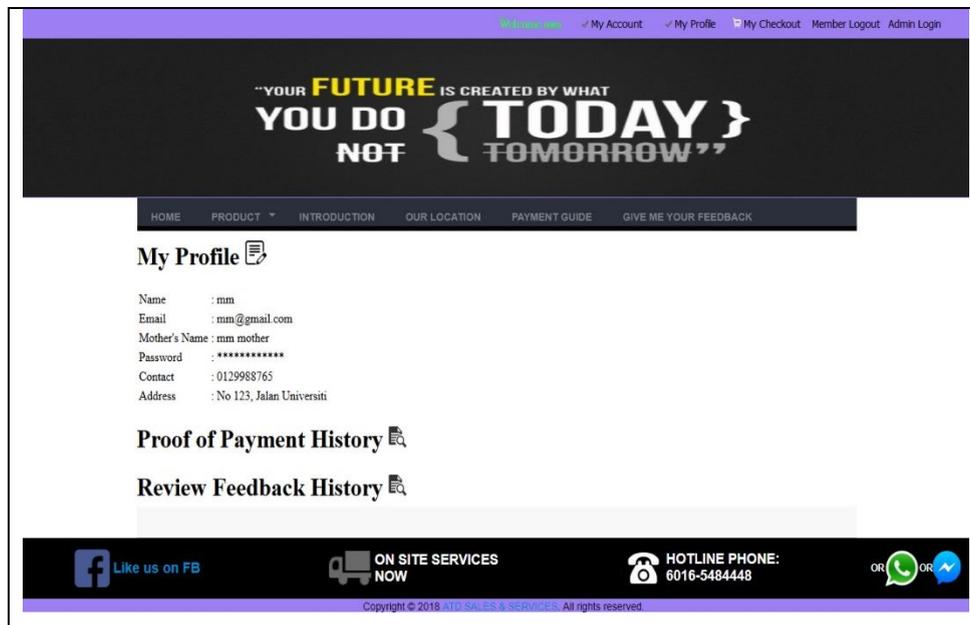


**Figure 3.36:  ATD Customer Profile Page Interface**

**n.  Customer Profile Edit Page**

Figure 3.37 shows the physical design of Customer Profile Edit Page interface of **ATD ONLINE SYSTEMS**.
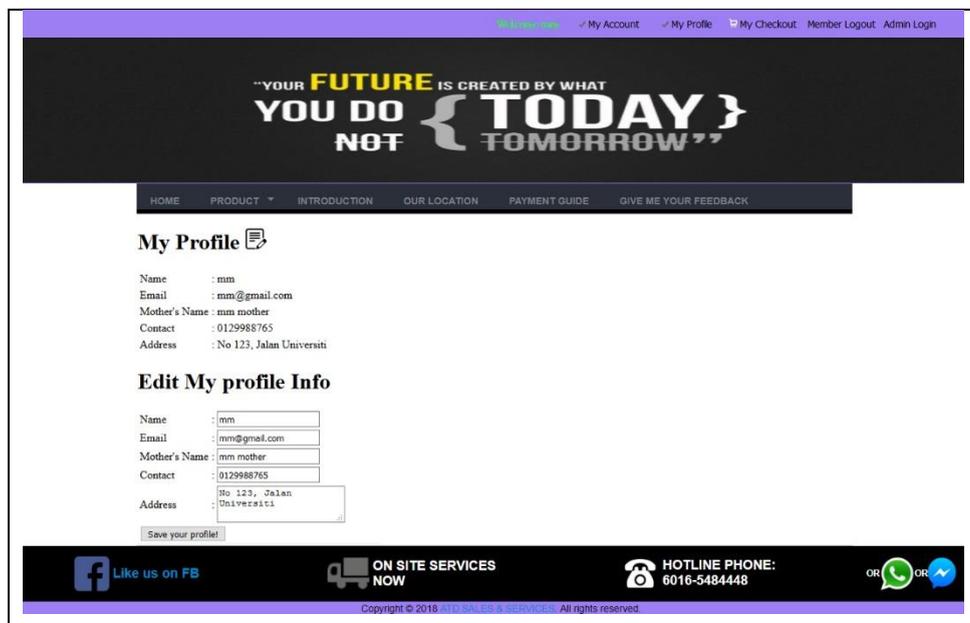


**Figure 3.37:   ATD Customer Profile Edit Page Interface**

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o.  **Customer Upload Proof of Payment Page**

Figure 3.38 shows the physical design of Customer Upload Proof of Payment Page interface of **ATD ONLINE SYSTEMS**.
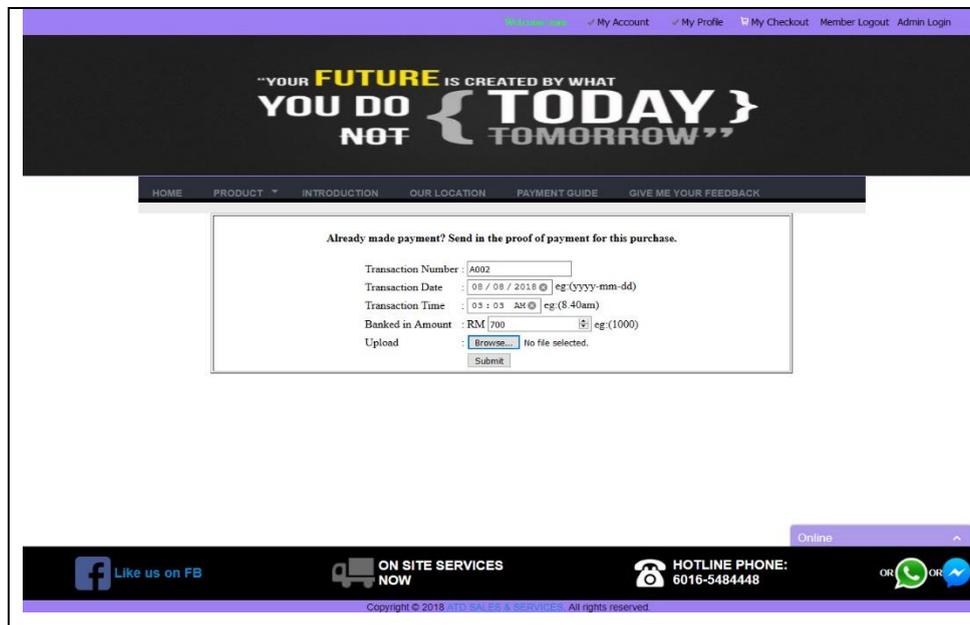


**Figure 3.38:** **ATD Customer Upload Proof of Payment Page Interface**

p.  **Customer Upload Success Information Message Page**

Figure 3.39 shows the physical design of Customer Upload Success Information Message Page interface of **ATD ONLINE SYSTEMS**.
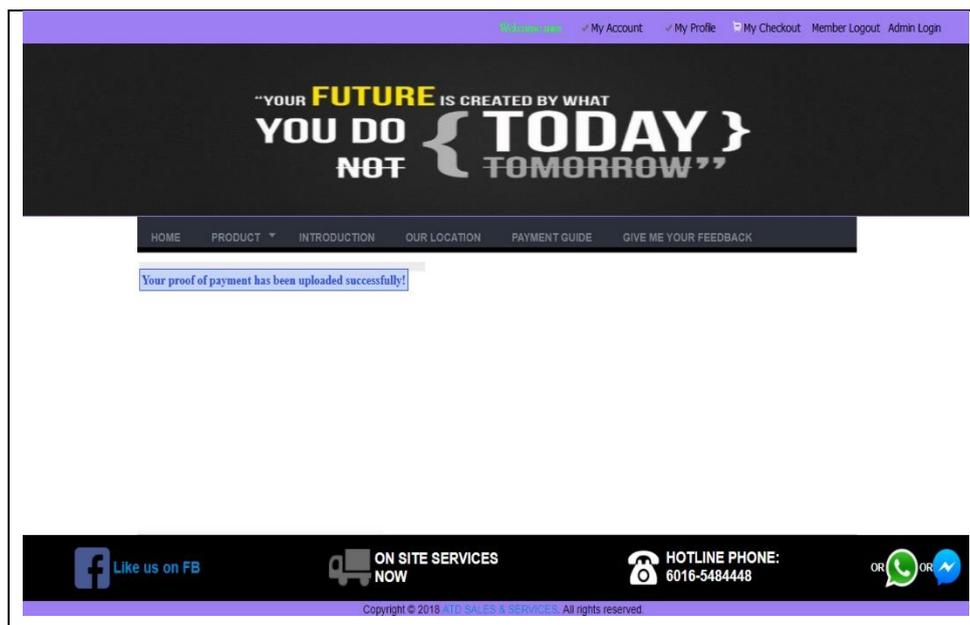


**Figure 3.39:** **ATD Customer Upload Success Information Message Page Interface**

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## q. Customer Proof of Payment History Page

Figure 3.40 shows the physical design of Customer Proof of Payment History Page interface of **ATD ONLINE SYSTEMS**.
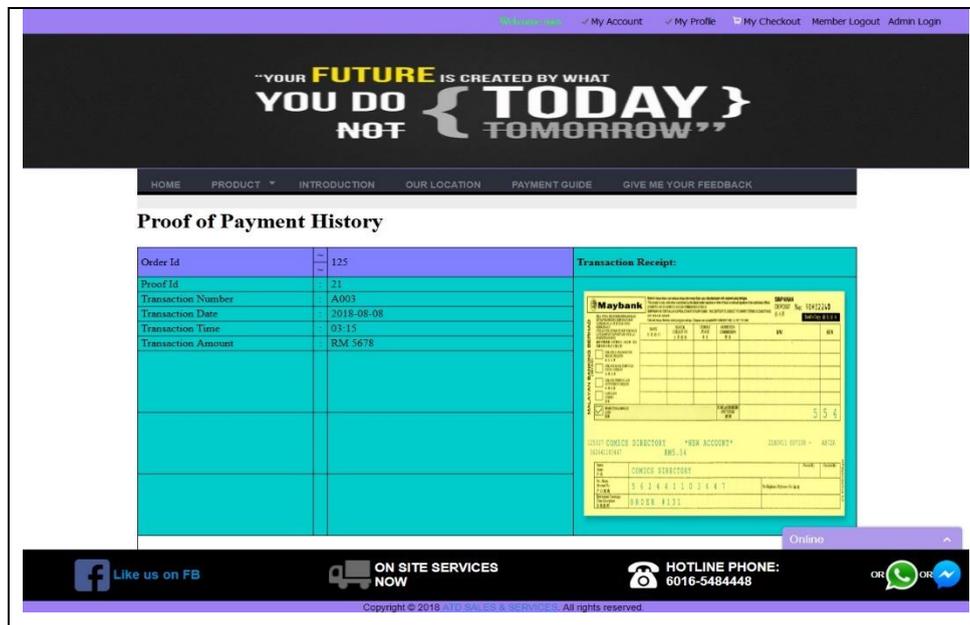


**Figure 3.40: ATD Customer Proof of Payment History Page Interface**

## r. Customer Feedback Page

Figure 3.41 shows the physical design of Customer Feedback Page interface of **ATD ONLINE SYSTEMS**.
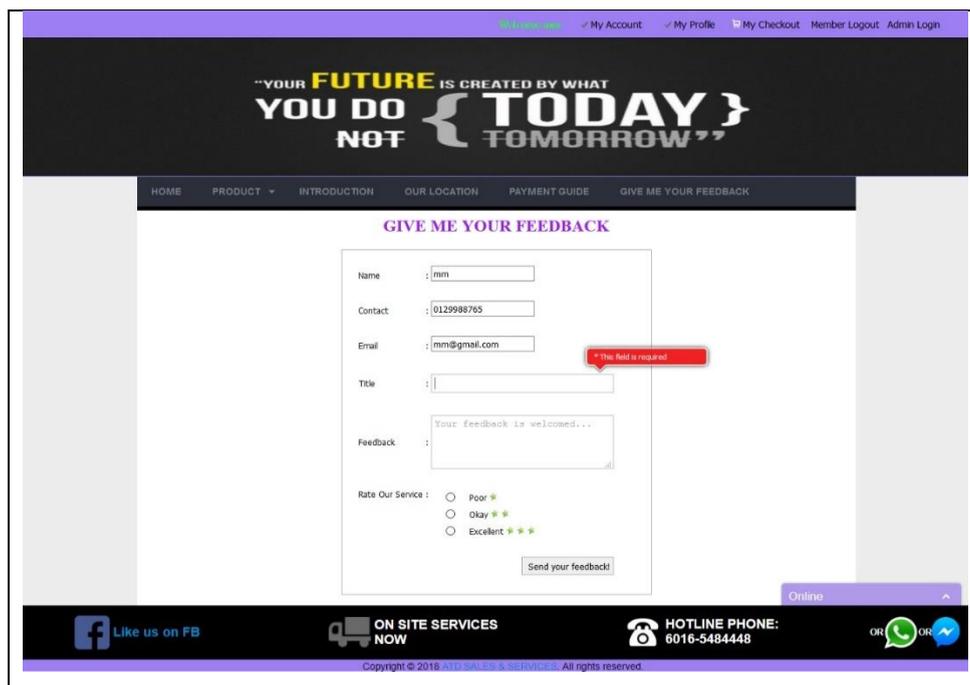


**Figure 3.41: ATD Customer Feedback Page Interface**

s.  **Customer Receive Administrator Feedback Reply Message Page**

Figure 3.42 shows the physical design of Customer Receive Administrator
Feedback Reply Message Page interface of **ATD ONLINE SYSTEMS**.
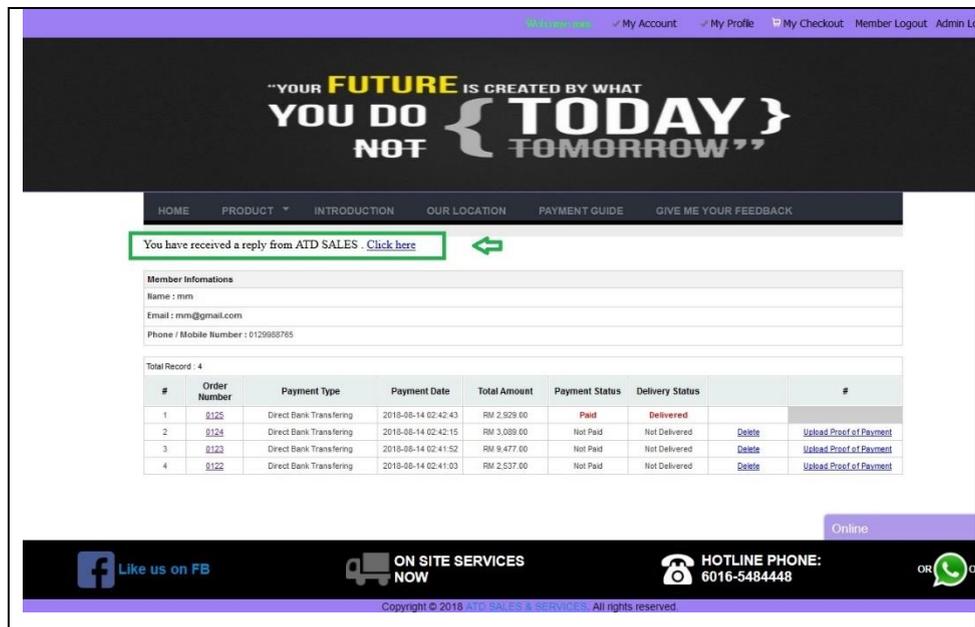


**Figure 3.42:   ATD Customer Receive Administrator Feedback
Reply Message Page Interface**

t.  **Customer Feedback History Page**

Figure 3.43 shows the physical design of Customer Feedback History Page
interface of **ATD ONLINE SYSTEMS**.
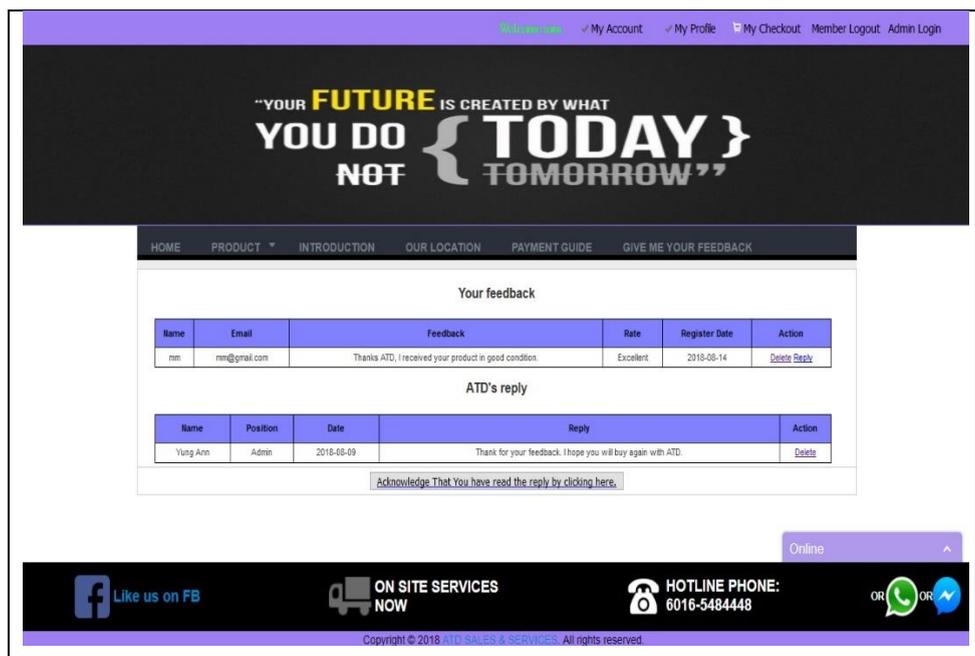


**Figure 3.43:   ATD Customer Feedback History Page Interface**

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### u. Administrator Login Page

Figure 3.44 shows the physical design of Administrator.

Administrator Login Page interface of **ATD ONLINE SYSTEMS**.
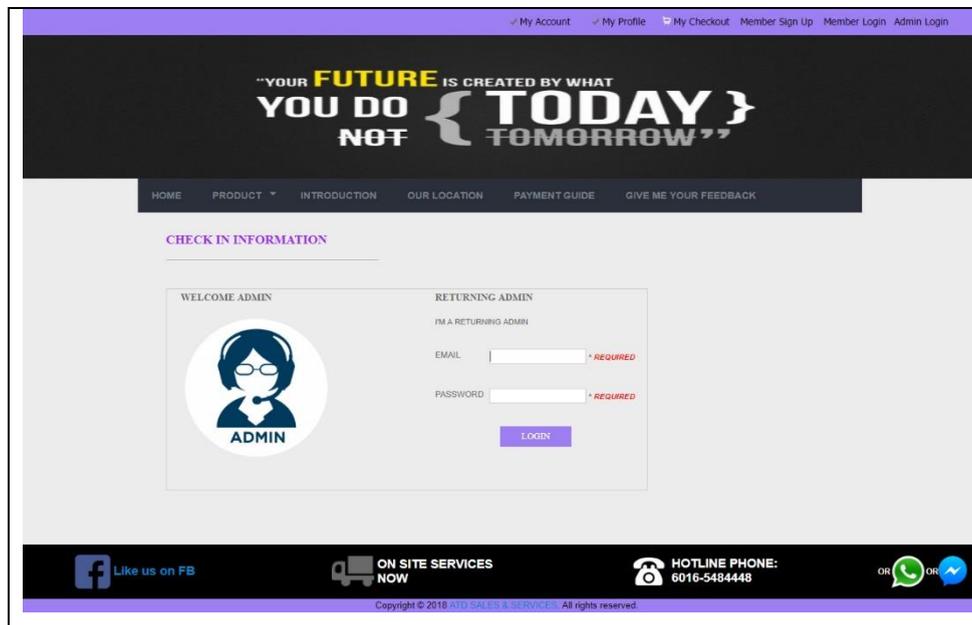


**Figure 3.44:   ATD Administrator Login Page Interface**

### v. Administrator Main Page

Figure 3.45 shows the physical design of Administrator.

Administrator Main Page interface of **ATD ONLINE SYSTEMS**.



**Figure 3.45:   ATD Administrator Main Page Interface**

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**w. Administrator Side Panel Function Page**

Figure 3.46 shows the physical design of Administrator.

Administrator Side Panel Function Page interface of **ATD ONLINE SYSTEMS**.
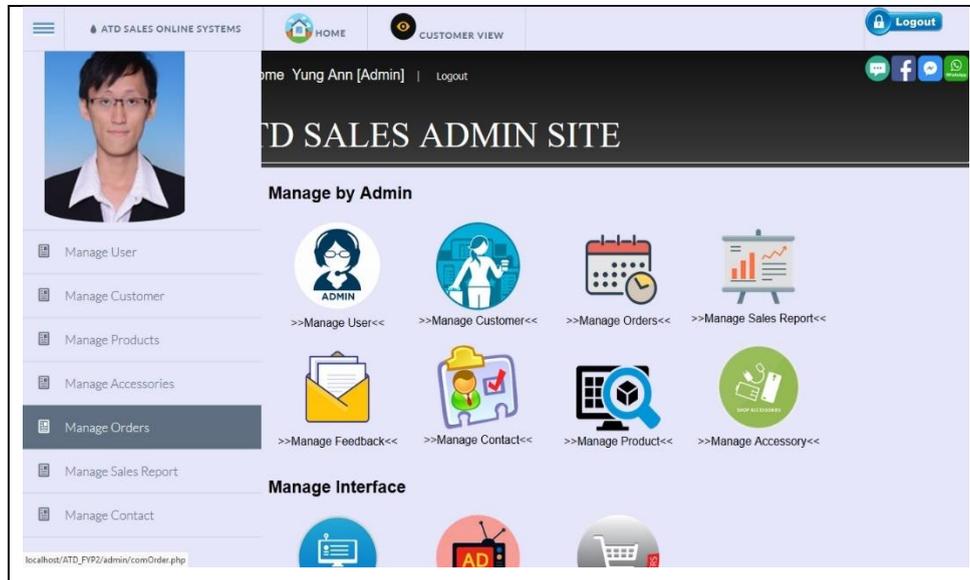


**Figure 3.46:   ATD Administrator Side Panel Function Page**

**Interface**

**x. Administrator Manage User Page**

Figure 3.47 shows the physical design of Administrator.

Administrator Manage User Page interface of **ATD ONLINE SYSTEMS**.
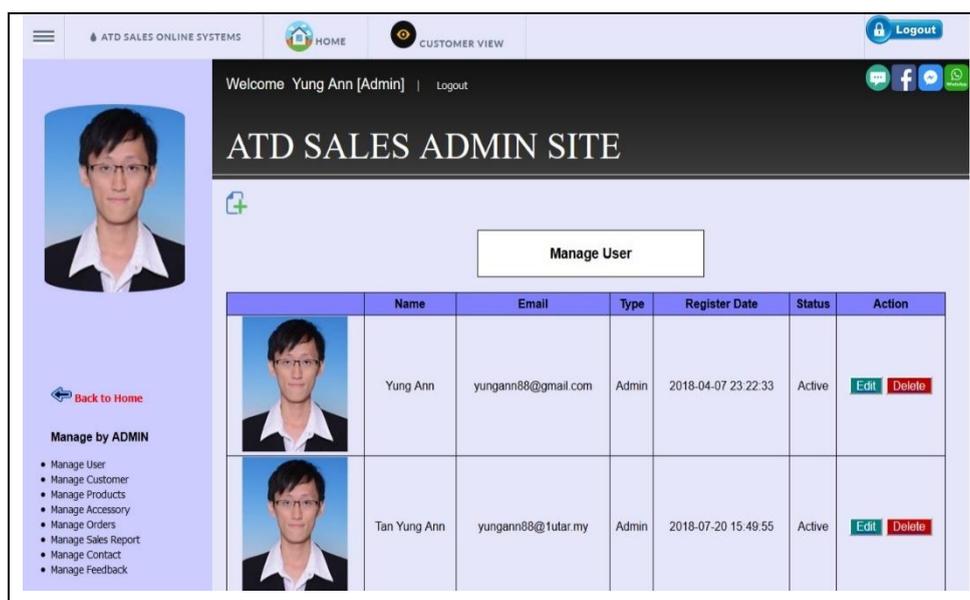


**Figure 3.47:   ATD Administrator Manage User Page Interface**

### y. Administrator Add User Page

Figure 3.48 shows the physical design of Administrator.

Administrator Add User Page interface of **ATD ONLINE SYSTEMS**.
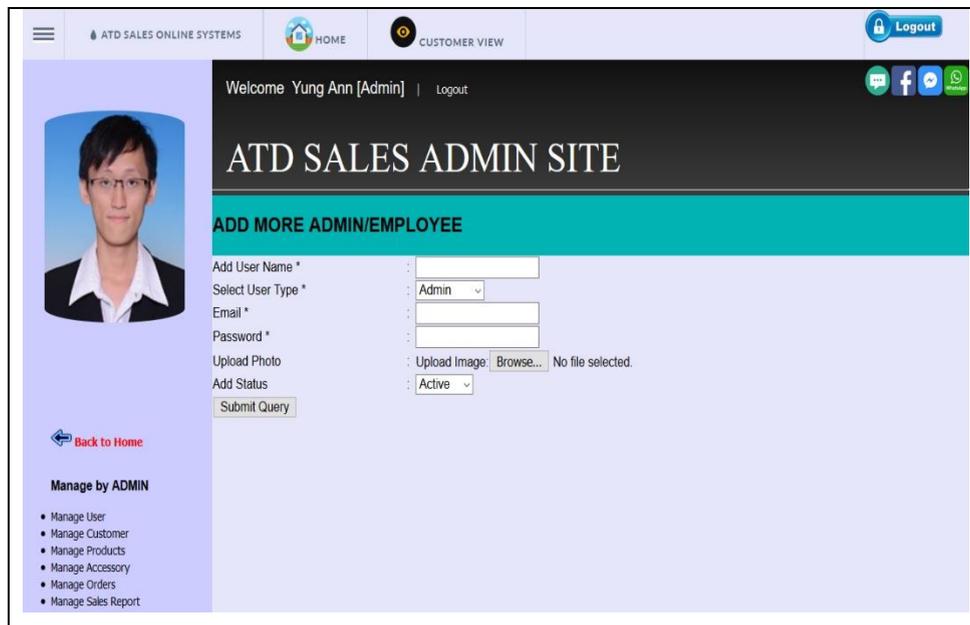


**Figure 3.48: ATD Administrator Add User Page Interface**

### z. Administrator Edit User Page

Figure 3.49 shows the physical design of Administrator.

Administrator Edit User Page interface of **ATD ONLINE SYSTEMS**.
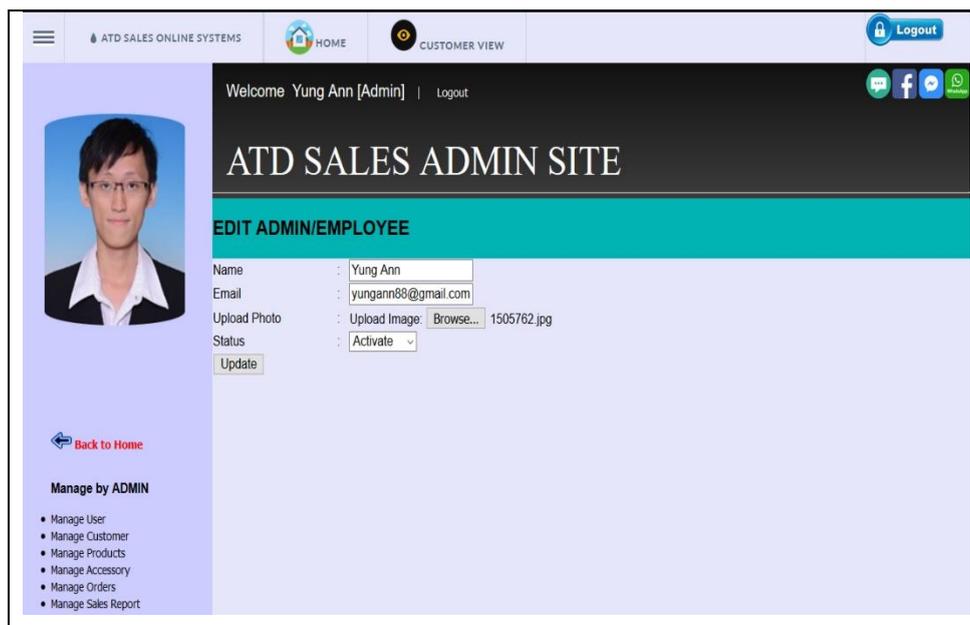


**Figure 3.49: ATD Administrator Edit User Page Interface**

## aa. Administrator Manage Customer Page

Figure 3.50 shows the physical design of Administrator.

Administrator Manage Customer Page interface of **ATD ONLINE SYSTEMS**.
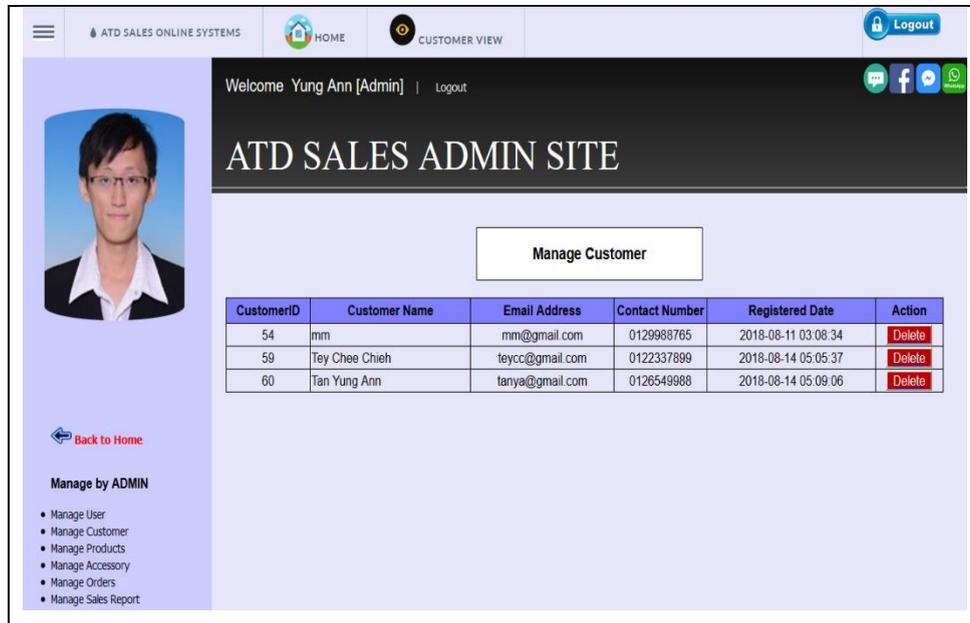


**Figure 3.50:   ATD Administrator Manage Customer Page Interface**

## bb. Administrator Manage Order Page

Figure 3.51 shows the physical design of Administrator.

Administrator Manage Order Page interface of **ATD ONLINE SYSTEMS**.
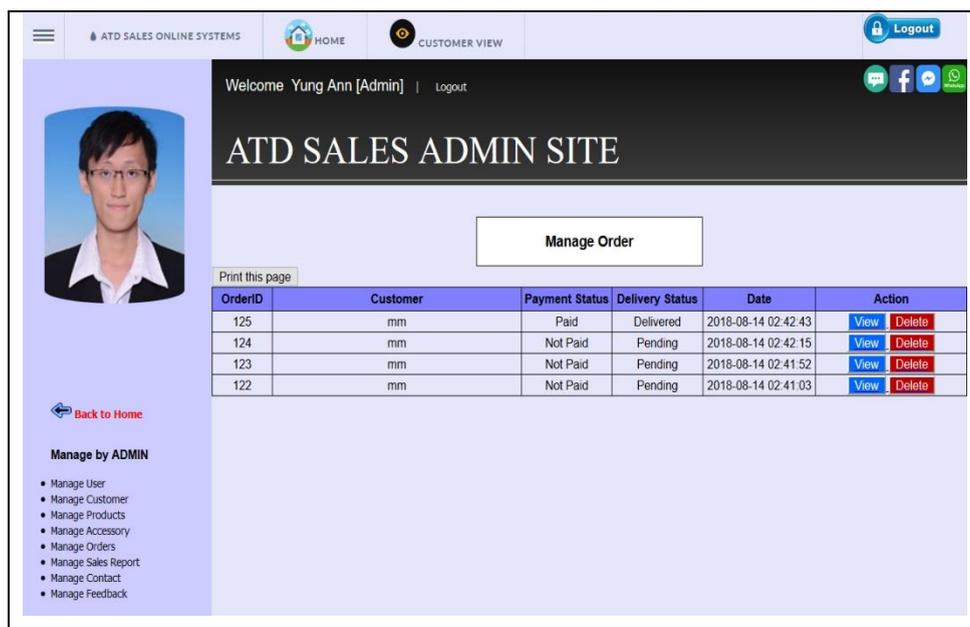


**Figure 3.51:   ATD Administrator Manage Order Page Interface**

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### cc. Administrator Manage Order Detail Page

Figure 3.52 shows the physical design of Administrator.

Administrator Manage Order Detail Page interface of **ATD ONLINE SYSTEMS**.
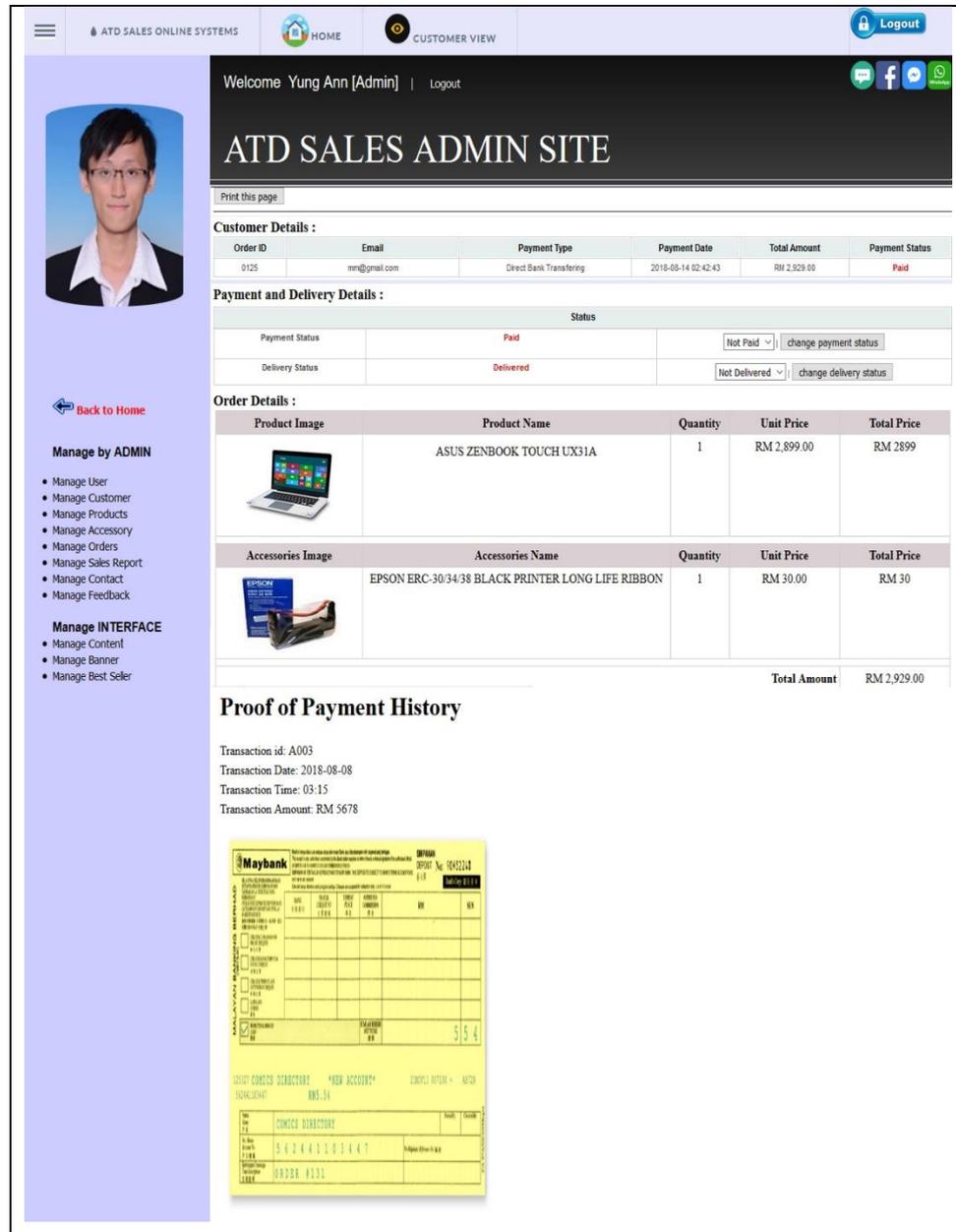


**Figure 3.52:   ATD Administrator Manage Order Detail Page**

**Interface**

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**dd. Administrator Manage Sales Report Page**

Figure 3.53 shows the physical design of Administrator.

Administrator Manage Sales Report Page interface of **ATD ONLINE SYSTEMS**.
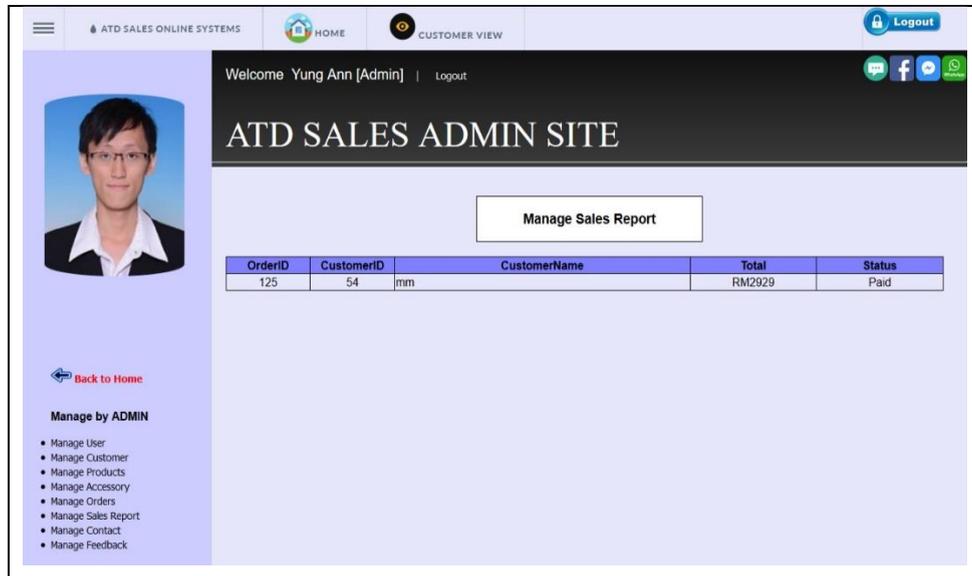


**Figure 3.53: ATD Administrator Manage Sales Report Page Interface**

**ee. Administrator Manage Feedback Page**

Figure 3.54 shows the physical design of Administrator.

Administrator Manage Feedback Page interface of **ATD ONLINE SYSTEMS**.
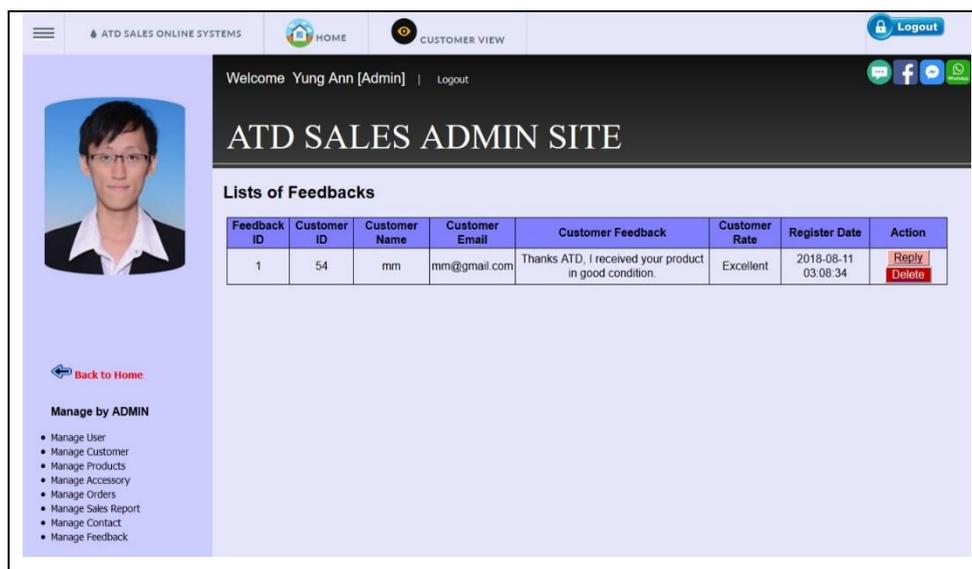


**Figure 3.54: ATD Administrator Manage Feedback Page Interface**

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### ff. Administrator Manage Feedback Reply Page

Figure 3.55 shows the physical design of Administrator.

Administrator Manage Feedback Page interface of **ATD ONLINE SYSTEMS**.
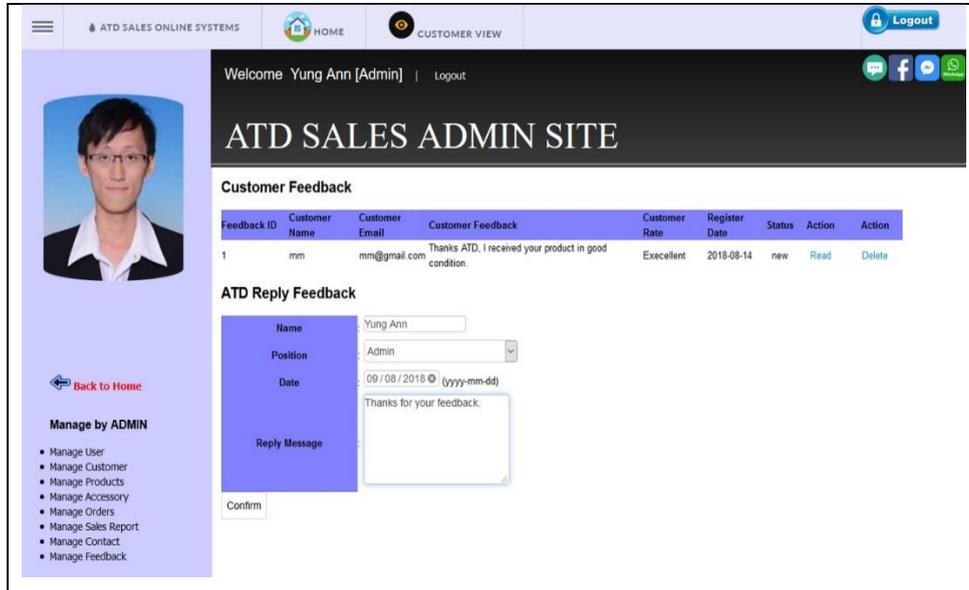


**Figure 3.55:   ATD Administrator Manage Feedback Page Interface**

### gg. Administrator Manage Contact Page

Figure 3.56 shows the physical design of Administrator.

Administrator Manage Contact Page interface of **ATD ONLINE SYSTEMS**.
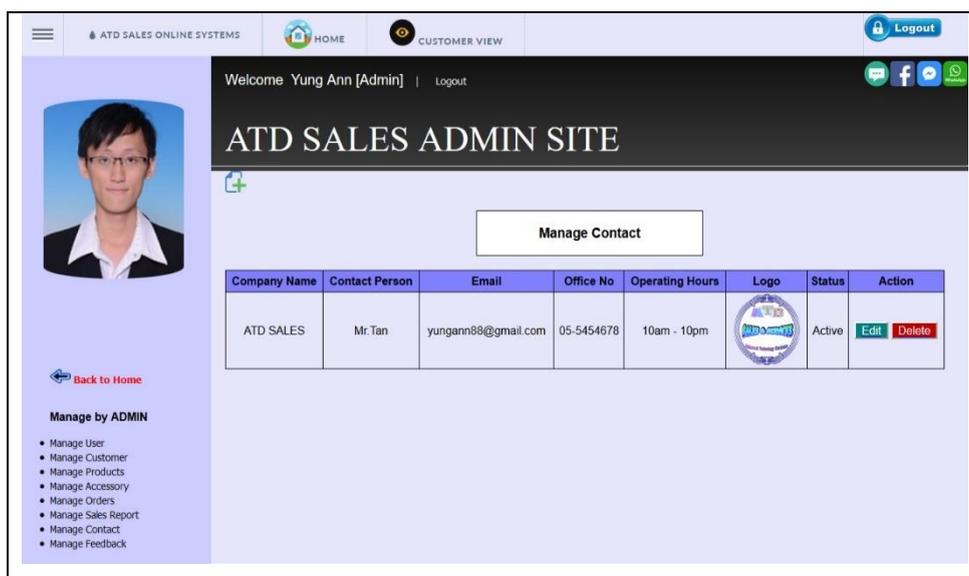


**Figure 3.56:   ATD Administrator Manage Contact Page Interface**

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### hh. Administrator Manage Product Page

Figure 3.57 shows the physical design of Administrator.

Administrator Manage Product Page interface of **ATD ONLINE SYSTEMS**.
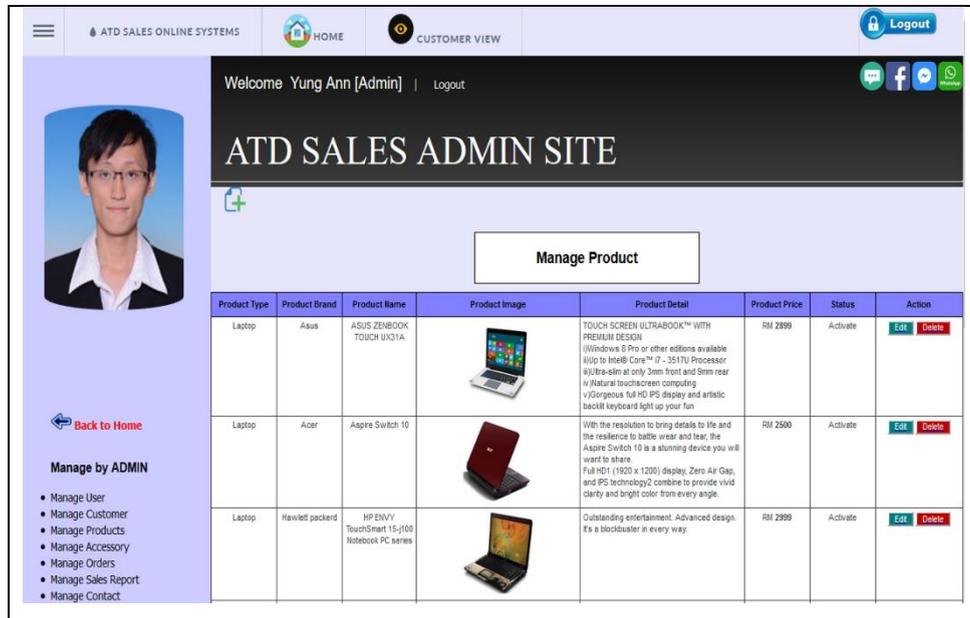


**Figure 3.57:   ATD Administrator Manage Product Page Interface**

### ii.  Administrator Add Product Page

Figure 3.58 shows the physical design of Administrator.

Administrator Add Product Page interface of **ATD ONLINE SYSTEMS**.
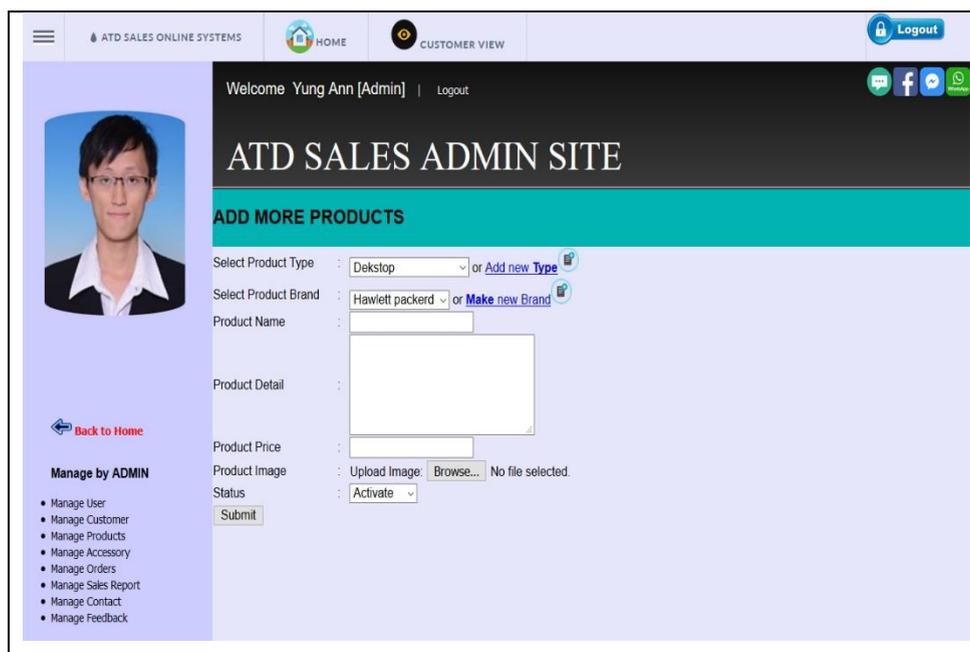


**Figure 3.58:   ATD Administrator Add Product Page Interface**

### jj. Administrator Manage Product Brand Page

Figure 3.59 shows the physical design of Administrator.

Administrator Manage Product Brand Page interface of **ATD ONLINE SYSTEMS**.
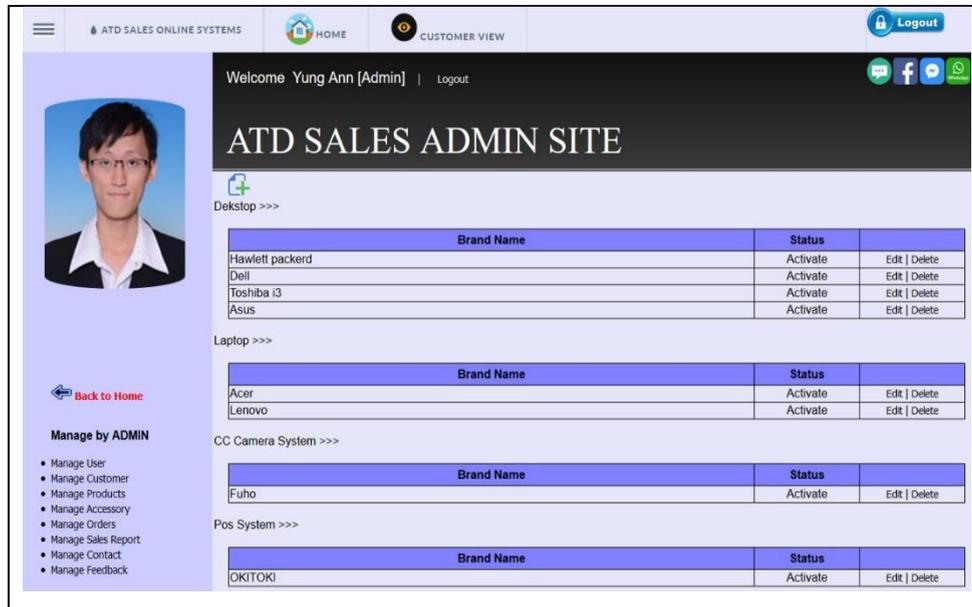


**Figure 3.59:   ATD Administrator Manage Product Brand Page Interface**

### kk. Administrator Add Product Brand Page

Figure 3.60 shows the physical design of Administrator.

Administrator Add Product Brand Page interface of **ATD ONLINE SYSTEMS**.
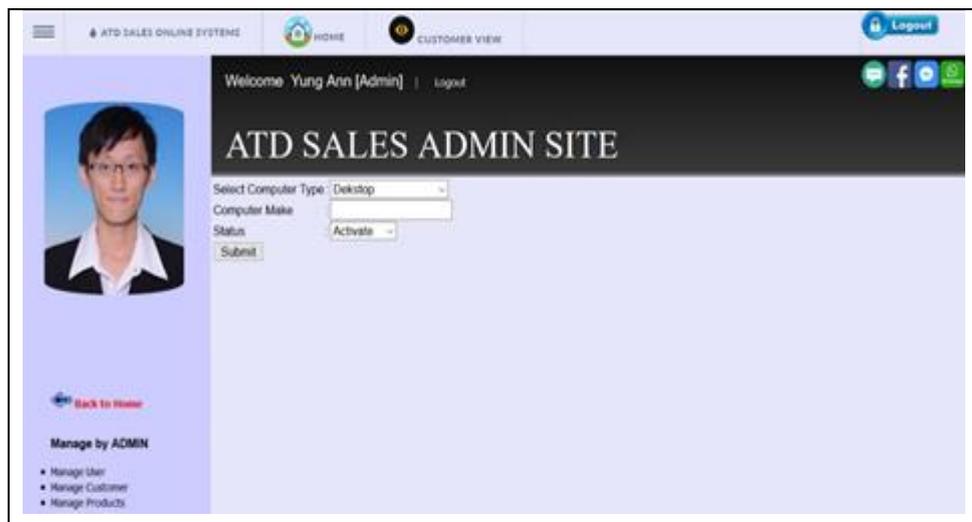


**Figure 3.60:   ATD Administrator Add Product Brand Page Interface**

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**ll. Administrator View Product Brand Interface**

Figure 3.61 shows the physical design of Administrator.

Administrator View Product Brand Page interface of **ATD ONLINE SYSTEMS**.
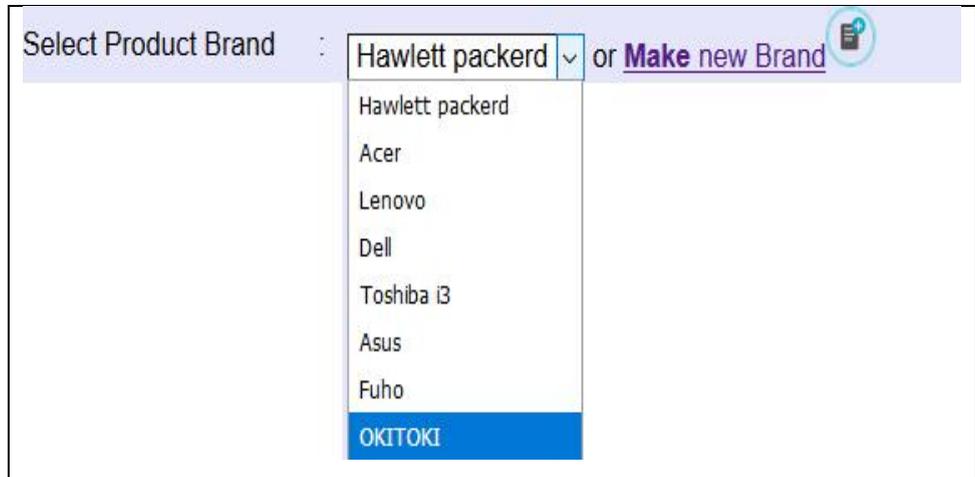


**Figure 3.61: ATD Administrator View Product Brand Page Interface**

**mm. Administrator Manage Product Type Page**

Figure 3.62 shows the physical design of Administrator.

Administrator Manage Product Type Page interface of **ATD ONLINE SYSTEMS**.
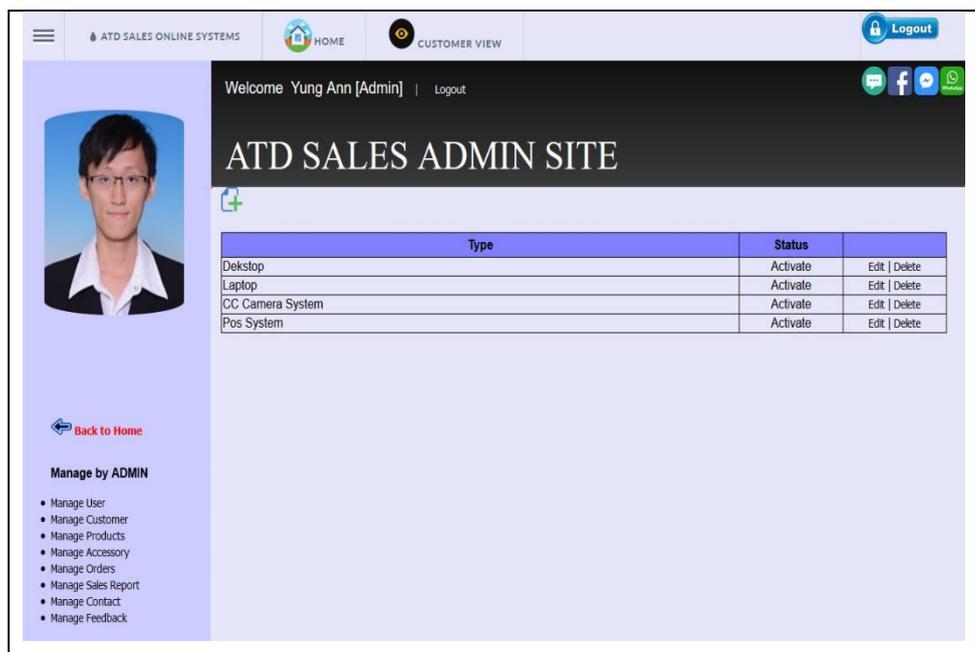


**Figure 3.62: ATD Administrator Manage Product Type Page Interface**

### nn. Administrator Add Product Type Page

Figure 3.63 shows the physical design of Administrator.

Administrator Add Product Type Page interface of **ATD ONLINE SYSTEMS**.
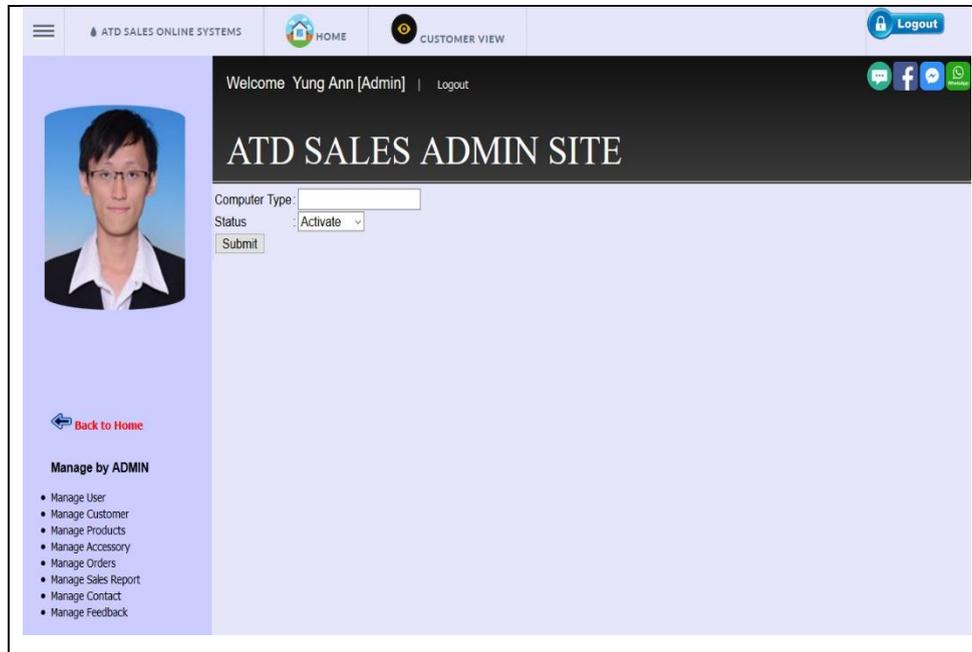


**Figure 3.63:   ATD Administrator Add Product Type Page Interface**

### oo. Administrator View Product Type Interface

Figure 3.64 shows the physical design of Administrator.

Administrator View Product Type Page interface of **ATD ONLINE SYSTEMS**.
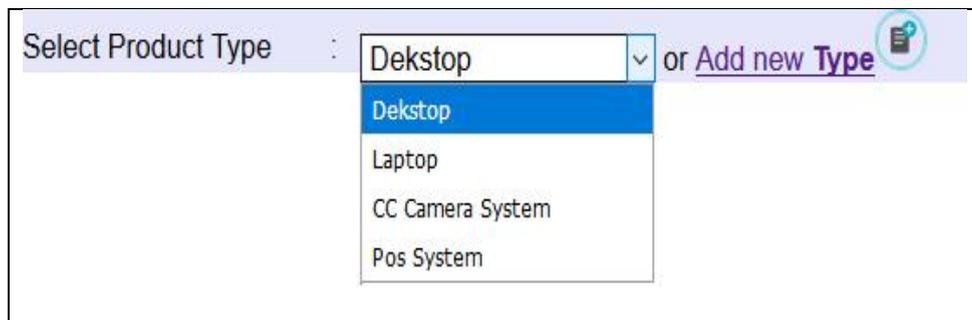


**Figure 3.64:   ATD Administrator View Product Type Page Interface**

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### pp. Administrator Edit Product Details Page

Figure 3.65 shows the physical design of Administrator.

Administrator Edit Product Details Page interface of **ATD ONLINE SYSTEMS**.
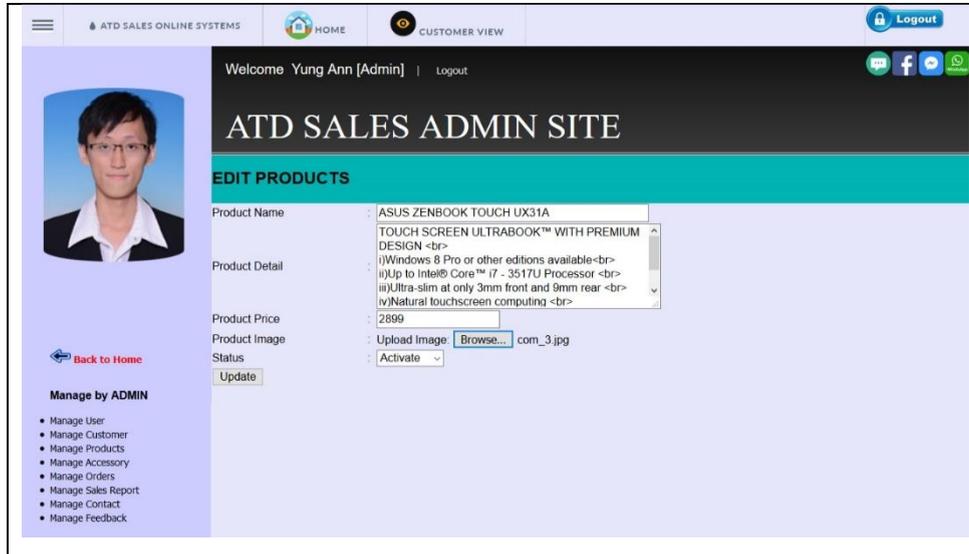


**Figure 3.65: ATD Administrator Edit Product Details Page Interface**

### qq. Administrator Manage Accessories Page

Figure 3.66 shows the physical design of Administrator.

Administrator Manage Accessories Page interface of **ATD ONLINE SYSTEMS**.
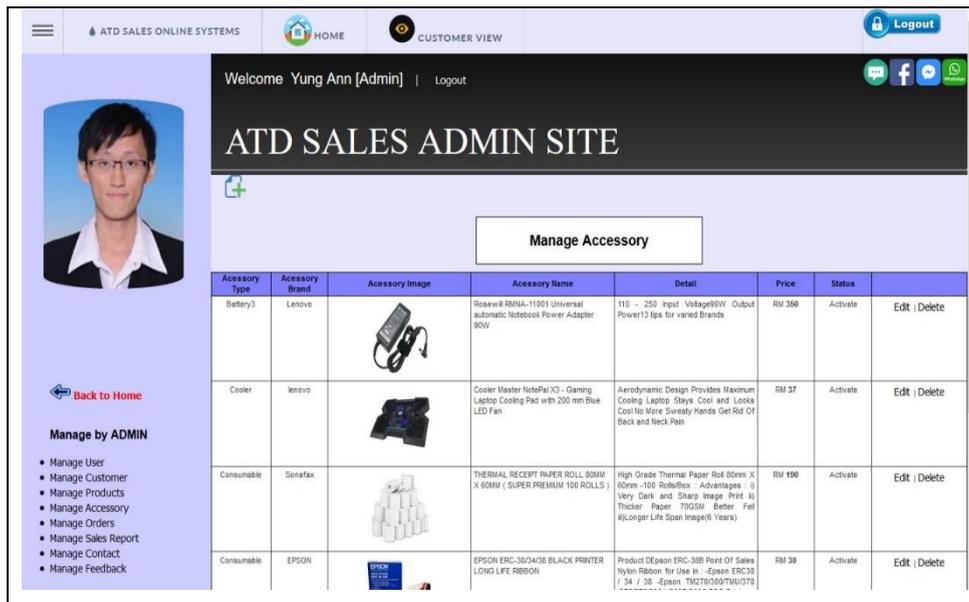


**Figure 3.66: ATD Administrator Manage Accessories Page Interface**

**rr. Administrator Manage Content without Coding**

Figure 3.67 shows the physical design of Administrator.

Administrator Manage Content without Coding Page interface of **ATD ONLINE SYSTEMS**.
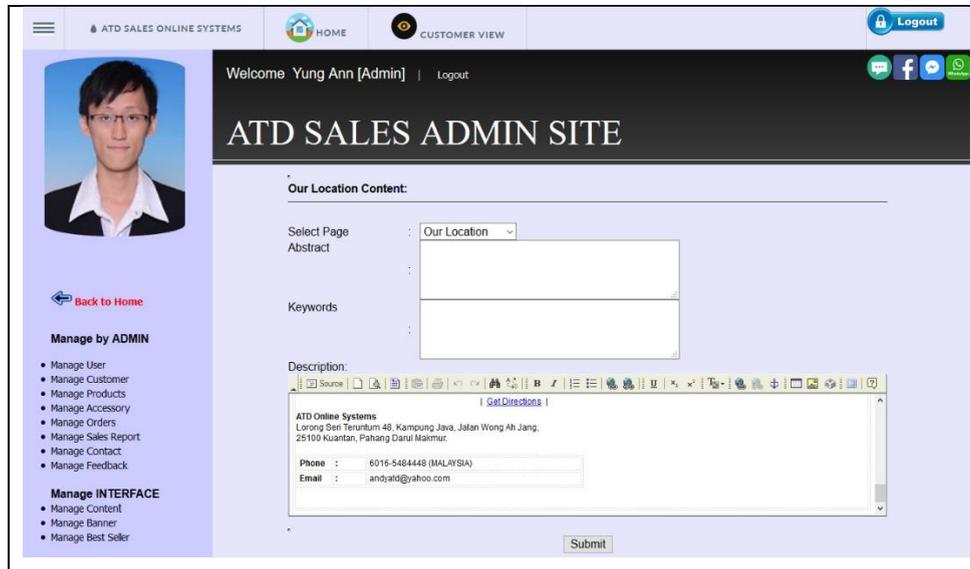


**Figure 3.67:   ATD Administrator Manage Content without**

**Coding Administrator Page Interface**

**ss. Administrator Manage Content with Coding Page**

Figure 3.68 shows the physical design of Administrator.

Administrator Manage Content with Coding Page interface of **ATD ONLINE SYSTEMS**.
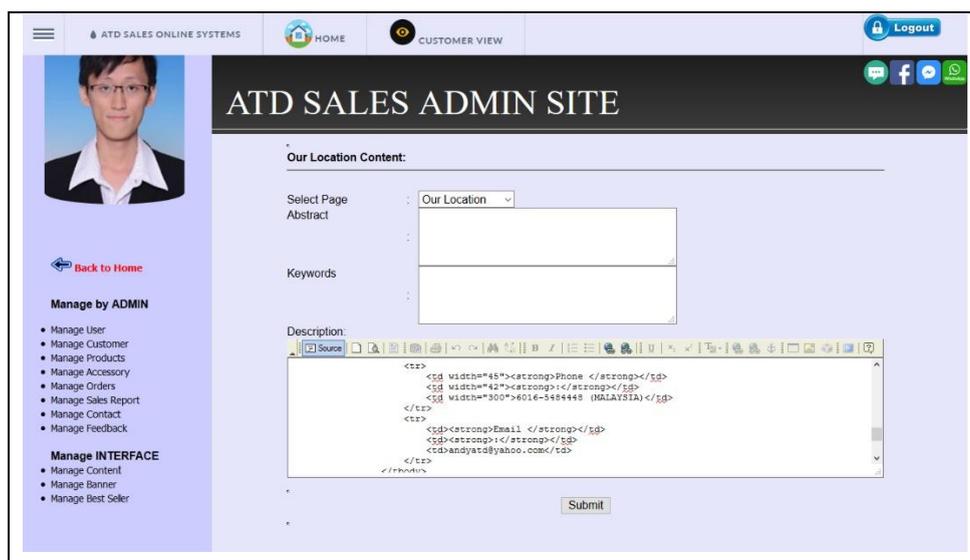


**Figure 3.68:   ATD Administrator Manage Content with Coding**

**Page Interface**

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**tt. Administrator Manage Banner Page**

Figure 3.69 shows the physical design of Administrator.

Administrator Manage Banner Page interface of **ATD ONLINE SYSTEMS**.
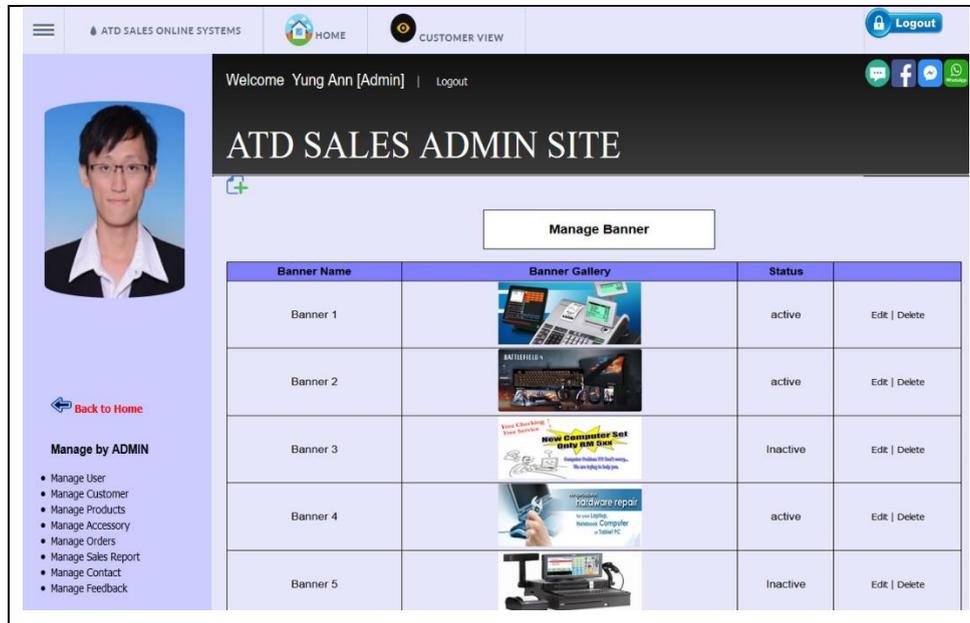


**Figure 3.69:  ATD Administrator Manage Banner Page Interface**

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**uu. ATD Customer Connect Messenger to Contact Customer Support**

Figure 3.70 shows the physical design of Administrator.

Customer use Messenger to Contact us with Instruction Page interface of
**ATD ONLINE SYSTEMS**.
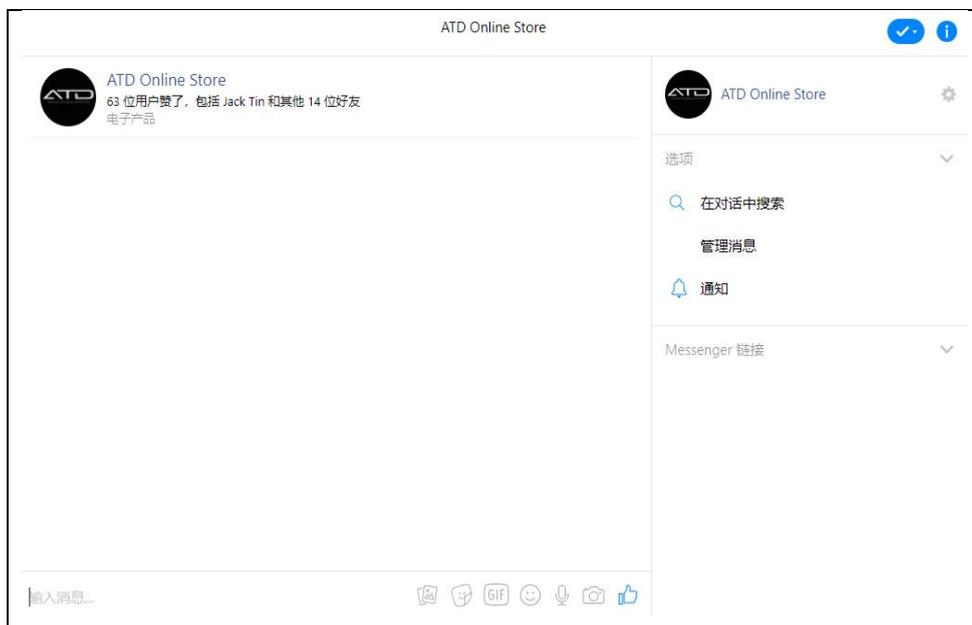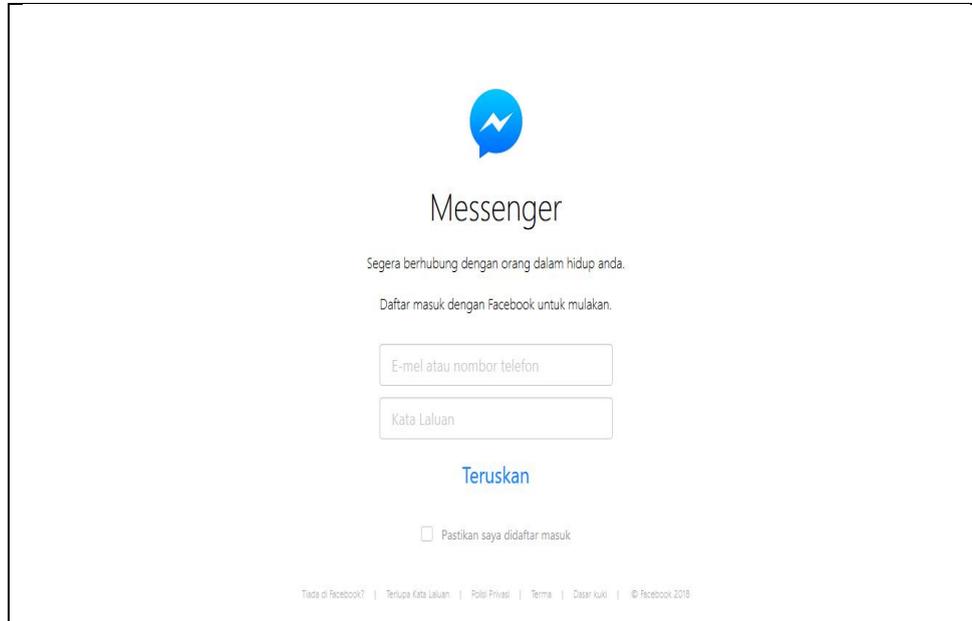




**Figure 3.70:   ATD Customer Connect Messenger to Contact
Customer Support Page Interface**

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**vv. Customer contact us using WhatsApp Social Media.**

Figure 3.71, figure 3.72 and figure 3.73 shows the physical design of Administrator.

Customer contact us using WhatsApp Social Media interface of **ATD ONLINE SYSTEMS**.
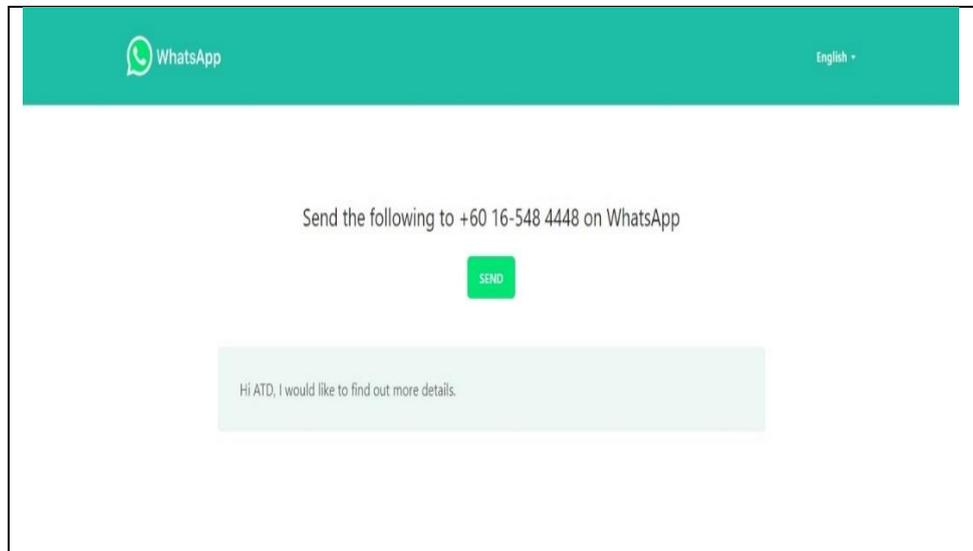


**Figure 3.71: ATD Customer using WhatsApp Social Media - Instruction 1**
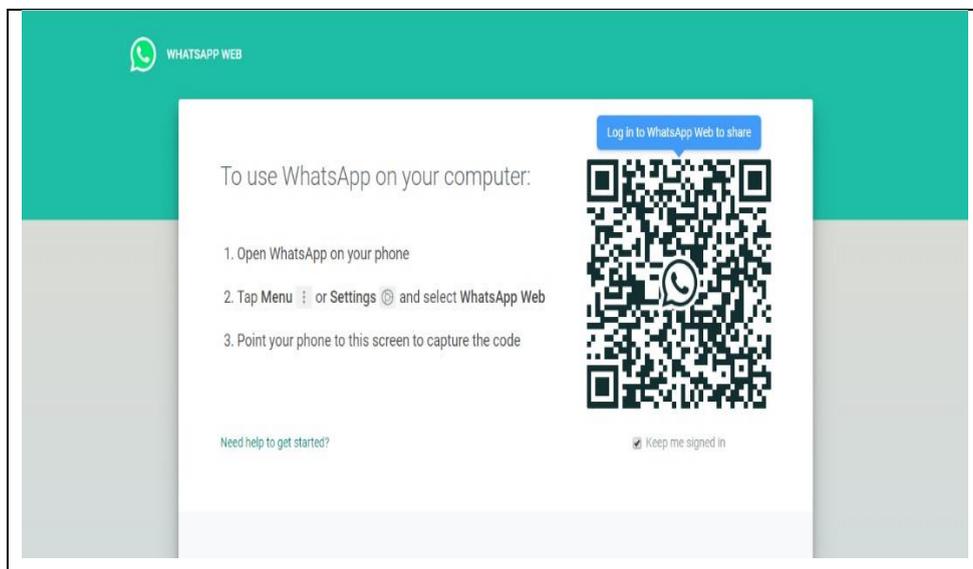


**Figure 3.72: ATD Customer using WhatsApp Social Media - Instruction 2**

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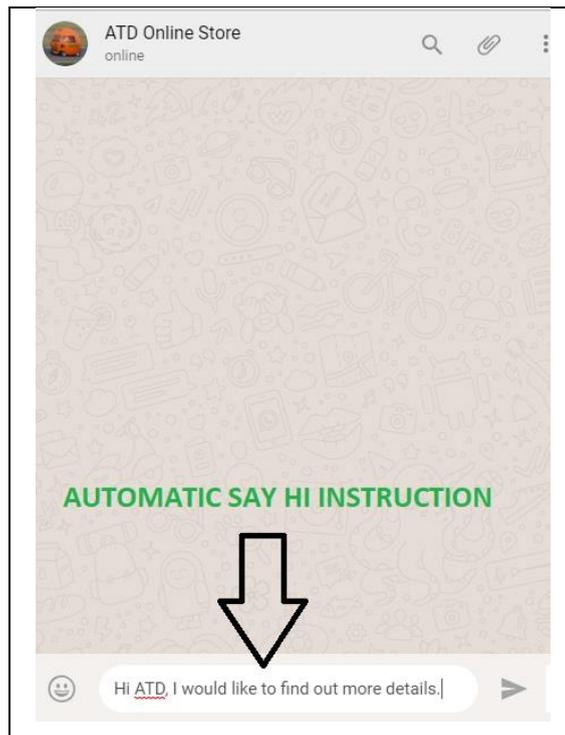
**Figure 3.73: ATD Customer using WhatsApp Social Media -**

**Instruction 3**

ww. **Customer contact us using Live Chat.**

Figure 3.74 shows the physical design of Administrator.

Customer contact us using Live Chat interface of **ATD ONLINE SYSTEMS**.



**Figure 3.74: ATD Customer using Live Chat – Instruction Page**

**Interface**

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**xx. Customer change/edit their name in Live Chat**

Figure 3.75 shows the physical design of Administrator.

Customer can change their name in Live Chat interface of **ATD ONLINE SYSTEMS**.
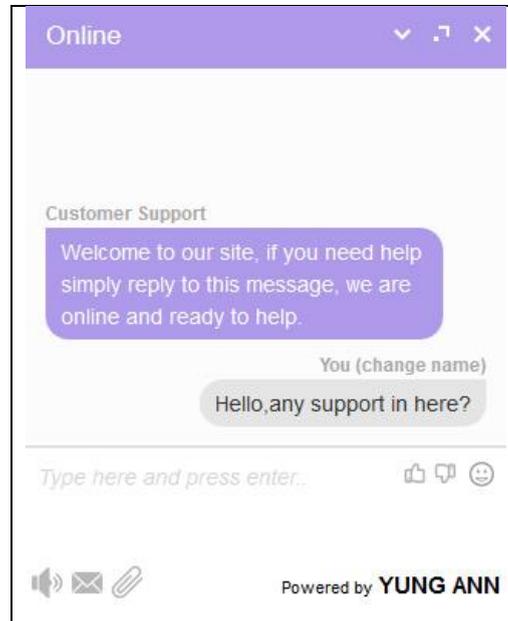


**Figure 3.75: ATD Customer can change or edit their name in Live Chat Page Interface**

**yy. Customer contact us using Live Chat.**

Figure 3.76 shows the physical design of Administrator.

Live Chat Administrator Panel interface of **ATD ONLINE SYSTEMS**.
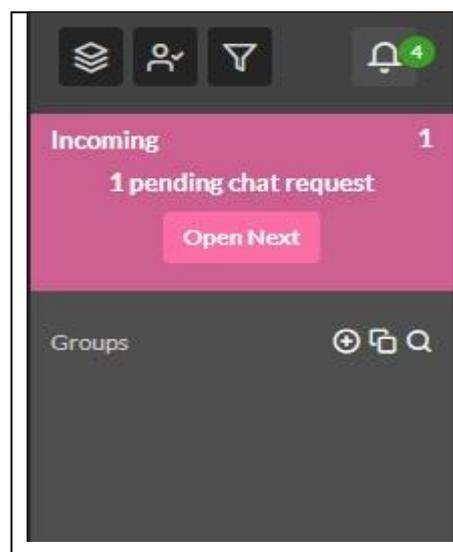


**Figure 3.76: ATD Live Chat Administrator Panel – Incoming Request Page Interface**

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### zz. ATD Live Chat Conversation Page

Figure 3.77 shows the physical design of Administrator.

ATD Live Chat Conversation Page interface of **ATD ONLINE SYSTEMS**.
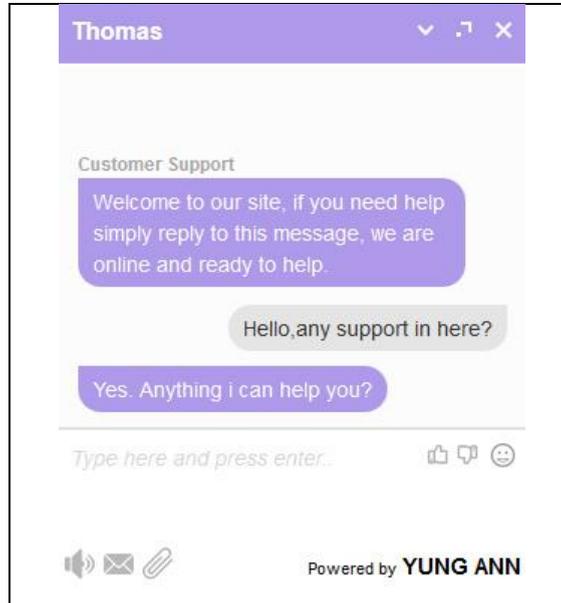


**Figure 3.77:  ATD Live Chat Conversation Page Interface**

### aaa.    ATD Live Chat Admin Panel

Figure 3.78 shows the physical design of Administrator.

Live Chat Admin Panel interface of **ATD ONLINE SYSTEMS**.
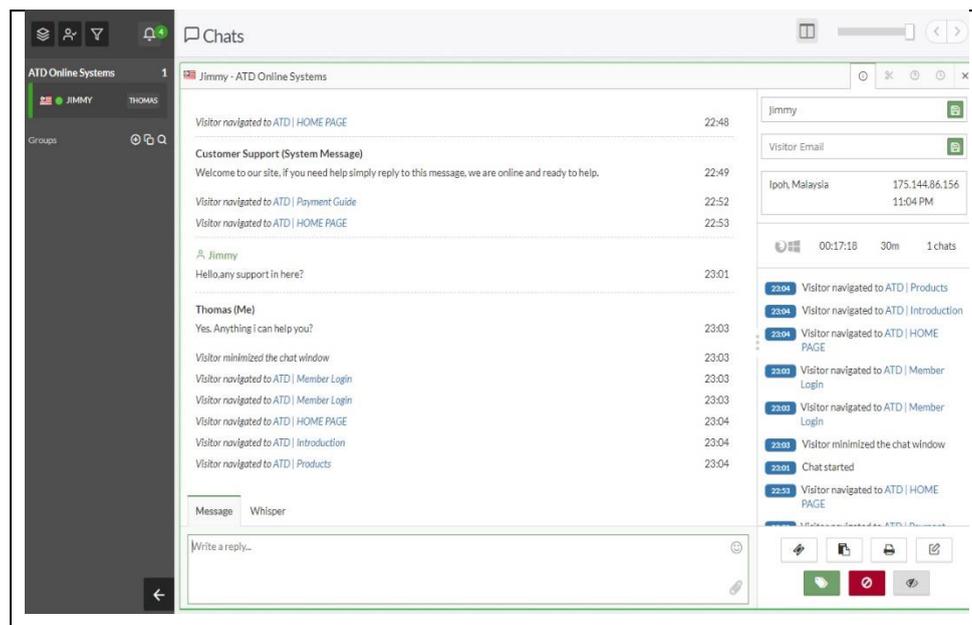


**Figure 3.78:  ATD Live Chat Admin Panel Page Interface**

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## 3.8 Implementation Issues and challenges

a. Implementation issues arise in the client environment include errors and bugs.

b. Different version of Operating System has different performance.

c. Challenges include how to fix those issues, select the correct Operating System version and maintenance at customer place when needed.

## 3.9    Timeline

| | Name | Duration | Start | Finish |
|---|---|---|---|---|
| | **Current Semester** | **71 days** | **Mon 15-01-18** | **Sun 22-04-18** |
| **1.0** | **Requirement Analysis** | **31 days** | **Mon 15-01-18** | **Sun 25-02-18** |
| 1.1 | Project Briefing | 6 days | Mon 15-01-18 | Sun 21-01-18 |
| 1.2 | Select Project Title and Project Supervisor | 3 days | Mon 22-01-18 | Wed 24-01-18 |
| 1.3 | Gather Information | 3 days | Thu 25-01-18 | Sun 28-01-18 |
| 1.4 | Visit and Discussion with ATD | 6 days | Mon 29-01-18 | Sun 04-02-18 |
| 1.5 | Prepare and Submit for ATD | 6 days | Mon 05-02-18 | Sun 11-02-18 |
| 1.6 | Plan Schedule and Estimate Cost | 6 days | Mon 12-02-18 | Sun 18-02-18 |
| 1.7 | Proposal Presentation | 3 days | Mon 19-03-18 | Wed 21-03-18 |
| 1.8 | Submit Proposal Report | 4 days | Wed 21-02-18 | Sun 25-02-18 |
| **2.0** | **System Design** | **26 days** | **Mon 26-02-18** | **Sun 01-04-18** |
| 2.1 | Preliminary Analysis | 6 days | Mon 26-02-18 | Sun 04-03-18 |
| 2.2 | Detailed Analysis | 6 days | Mon 05-03-18 | Sun 11-03-18 |
| 2.3 | Different types of physical designs | 6 days | Mon 12-03-18 | Sun 18-03-18 |
| 2.4 | Building Project Prototype | 11 days | Mon 19-03-18 | Sun 01-04-18 |
| **3.0** | **Implementation** | **16 days** | **Mon 02-04-18** | **Sun 22-04-18** |
| 3.1 | Project Proposal Review | 4 days | Mon 02-04-18 | Thu 05-04-18 |
| 3.2 | Review Project Plan and Design | 2 days | Fri 06-04-18 | Sun 08-04-18 |
| 3.3 | Discuss Problem Specification, Design and Code the Program | 4 days | Mon 09-04-18 | Thu 12-04-18 |
| 3.4 | Develop Problem Specification, Design and Code the Problem | 2 days | Fri 13-04-18 | Sun 15-04-18 |
| 3.5 | Report and Discuss the Progress of the Project Development | 2 days | Mon 16-04-18 | Tue 17-04-18 |
| 3.6 | Develop the Project | 4 days | Wed 18-04-18 | Sun 22-04-18 |
| | | | | |
| | | | | |

| | Name | Duration | Start | Finish |
|---|---|---|---|---|
| | **Next Semester** | **72 days** | **Tue 01-05-18** | **Wed 08-08-18** |
| **4.0** | **Testing** | **25 days** | **Tue 01-05-18** | **Sun 03-06-18** |
| 4.1 | Discuss Testing | 5 days | Tue 01-05-18 | Sun 06-05-18 |
| 4.2 | Conduct Unit Testing | 6 days | Mon 07-05-18 | Sun 13-05-18 |
| 4.3 | Conduct Integration and System Testing | 6 days | Mon 14-05-18 | Sun 20-05-18 |
| 4.4 | Discuss the Finding of Project Testing | 6 days | Mon 21-05-18 | Sun 27-05-18 |
| 4.5 | Rectify Errors Detected in the System | 6 days | Mon 28-05-18 | Sun 03-06-18 |
| **5.0** | **Deployment** | **21 days** | **Mon 04-06-18** | **Sun 01-07-18** |
| 5.1 | Review Deliverables | 6 days | Mon 04-06-18 | Sun 10-06-18 |
| 5.2 | Perform Implementation Plan | 6 days | Mon 11-06-18 | Sun 17-06-18 |
| 5.3 | Demonstration | 6 days | Mon 18-06-18 | Sun 24-06-18 |
| 5.4 | Review Deliverables and Design Specification | 6 days | Mon 25-06-18 | Sun 01-07-18 |
| **6.0** | **Maintenance** | **28 days** | **Mon 02-07-18** | **Wed 08-08-18** |
| 6.1 | Review Project Documentation | 11 days | Mon 02-07-18 | Sun 15-07-18 |
| 6.2 | Compile Project Documentation | 11 days | Mon 16-07-18 | Sun 29-07-18 |
| 6.3 | Present the Project | 8 days | Mon 30-07-18 | Wed 08-08-18 |

**Table 3.20: Gantt Chart Timeline**

**Figure 3.79: Gantt Chart (PAGE 1)**



**Figure 3.80: Gantt Chart (PAGE 2)**

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**Figure 3.81: Gantt Chart (PAGE 3)**

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# CHAPTER 4: PROJECT METHODOLOGY

## 4.1    Type of Methodology

### 4.1.1   Proposed Methodology

This project using Waterfall approach as the proposed methodology. In this **ATD ONLINE SYSTEMS** project, Waterfall Model is used. The process of Waterfall steps is divided into many different phases. Below is a different stages of waterfall design by Shelly Cashman.
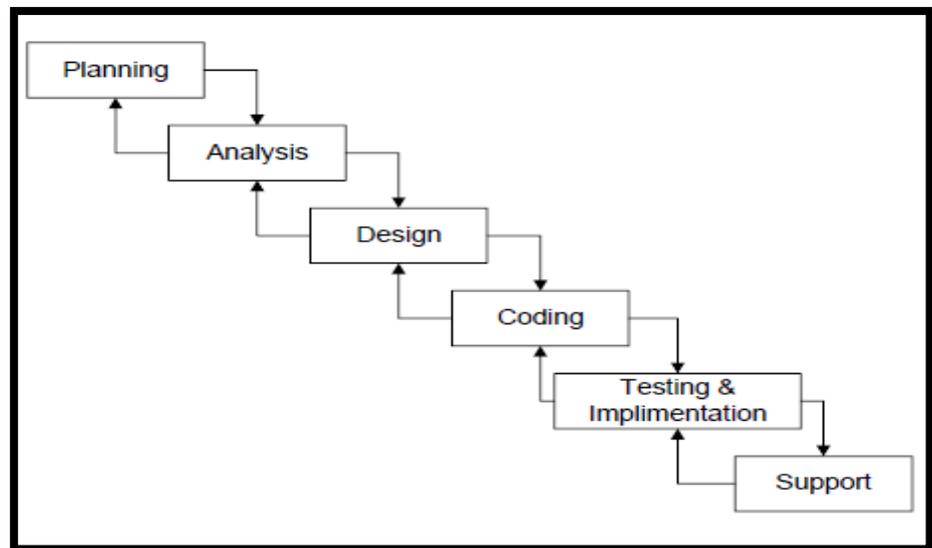


**Figure 4.01:  Waterfall Backflow Model by Shelly Cashman, 2009.**

**First Phase: Planning Phase**

Based on the concept, the planning phase is defined as a feasibility study carry out for mixed point of view including financial, technical aspect and organizational structure. In this planning phase, necessary requirements and planning are carry out ahead of the ATD ONLINE SYSTEMS. Feasibility study is being used to determine whether ATD ONLINE SYSTEMS can be achievable in-term of money and time.

This is first phase of the Waterfall model for ATD Online Systems. All-important documentation and requirement of the system are collected and study in this phase.

**Planning System and Company.**

    i.    Plan ATD ONLINE SYSTEMS.
   ii.    Plan for ATD SALES & SERVICES (ATD).

**Prepare Gantt Chart.**

    i.    Gantt Chart scheduling plan is carrying out for ATD, aiming to serve as a guideline to perform system development in accordance with the specified time.

**Collection of relevant documents and discussion**

    i.    Collect ATD catalogs
   ii.    Collect sample photos and articles
  iii.    Collect back website design Questionnaire forms.
  iv.    Meeting and discussion with ATD boss and staffs.
   v.    Collect approval letter from ATD.

**Second Phase: Analysis Phase**

In this analysis phase, the aim is to investigate and define new requirements for ATD ONLINE SYSTEMS. This analysis phase consists of problem trouble shooting and solution analysis. Prediction of problems that might occur during development of the ATD ONLINE SYSTEMS is analyzed here. The result of this phase serves as a guidance for design phase to determine the method of system design development.

In this analysis phase, I will identify within organization the pros and cons associated with ATD ONLINE SYSTEMS. To find out the differences and problems so that I can improve ATD ONLINE SYSTEMS. Using interview to gather the information and to apply Joint Application Design (JAD) as requirement gathering technique. For JAD session, related people has brought together to discuss about the requirements needed and other related matter regarding the ATD ONLINE SYSTEMS.

ATD SALES & SERVICES planning phase results are discuss in this phase. The main goal in this phase is to analyze problems and requirements of ATD SALES & SERVICES. All related documentations for ATD ONLINE SYSTEMS had been collected and analyze here.

**Website questionnaire**

    i.     Review and study ATD questionnaire questions.

**Review collected documents**

    i.     Select proper catalogs, photos and articles.
    ii.    Propose sample colors, fonts and wallpapers.

**Analyze needs and problems**

    i.     Understand the needs and problems of ATD.

ii.    All information and documentation collected are analyzed and finalized in this phase.

**Third Phase: Design Phase**

In this design phase, ATD ONLINE SYSTEMS architecture and foundation are actually build using organizational hardware and software provide. I developed a design prototype to describe each and every feature and function that must include in the ATD ONLINE SYSTEMS. This design prototype act as a guideline to implement the functions and features of the ATD system.

First design prototype is under the admin based and will lead to the implementation phase to select the requirements needed. It can be repeated after passing through the temporary implementation to be executed. If there are no changes, it will be follow up by the second design prototype for the user interface and selected functions. The second design prototype will run through the same process again. The prototype process will repeat again and again until the final of the design phase is being concluded. This final prototype will be extracted out as the final design and implement into the ATD ONLINE SYSTEMS.

In this system design phase, all requirements finalized from the analysis phase are studied here.
System design architecture, needed hardware and software are defined in this phase.

**Logical System Design**

i.    Sketches of Story Board for major pages are done in order to develop the system in a more systematic and seamlessly.

**Physical System Design**

    i.    ATD Interface Design was developed.

    ii.    Layout components of the website such as color, text. Icons and others are specified.

**Design Entity Relationship Diagram (ERD)**

    i.    Design and draw out ERD before decide on what types of database to use for ATD Online Systems.

**Draw Context Diagram**

    i.    Context Diagram interacts system scope boundaries with external environment.

**Draw Data Flow Diagram**

    i.    This data flow diagram consists of three main entities, namely administrators, customers and employees. All the rights and controls for these three entities are shown.

**Draw Flow Chart**

    i.    There are three flow charts for administrators, employees and customers for ATD SALES & SERVICES.

**Draw Use Case diagram**

    i.    Use Case diagram shows how activities are carry out by actors (users) of a system. Use Case diagram explain all the activities related to users, but without describe how the activities are performed.

**Fourth Phase: Coding Phase**

Coding Phase require programmers to take care of in the development of ATD ONLINE SYSTEMS because programs coding, algorithms, flow chart are discussed and implement here. All documentation and ideas in analysis & design phase will be coded and developed as a whole.

**Program Coding**
i.    The actual source code will be written.
ii.   Design system using programming language like HTML5, PHP, CSS, JAVASCRIPT, FIREBASE and others.

**Fifth Phase: Testing and Implementation Phase**

Completed system will be tested for errors and bugs to guarantee all functions are running smoothly.

**Testing**

i.    Testing completed for ATD ONLINE SYSTEMS to verify that the system is free from any bugs, faults and failures.

**Implementation**

Actual system development happens in this implementation phase. The system is built, tested for defect and rectified for errors. Training and maintenance activities are carried out here.

If there are problem encountered by ATD ONLINE SYSTEMS, the system needs to reversed back to the design phase to solve the relevant issues. This process will develop a complete changes or minor changes towards the ATD system. It depends on the type of problems encountered. Meanwhile, if the ATD system performance is stable and met the ATD needs, then it is the right timing to direct

installed for ATD SALES & SERVICES to try it out and use it. After ATD system is implemented, maintenance plan is developed to provide support service to the ATD system based on monthly basis. This is to maintain the performance of ATD systems and to prevent new issues being encountered in the near future.

The implementation phase will be conducted by ATD SALES & SERVICES staffs. Here ATD representatives will carry out testing for the system. All functions developed must meet the requirement of ATD and all functions must test in order it will working properly as plan.

**Sixth Phase: Support Phase**

Last phase in developing the ATD ONLINE SYSTEMS is the support phase. All project paper work inclusive of user manual must be documented properly. After evaluated by UTAR project supervisor and ATD SALES & SERVICES staffs, the project will be given an approval certification.

Support phase including a user manual for customer to easy reference. User manual of ATD Online System included administrator, customer and employees.

# USER'S MANUAL

# ATD ONLINE SYSTEMS

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# MAY 2018

# USER'S MANUAL

This section shows users how to use applications with different roles. There are two main roles in this application, Role Manager and Role Customer. An administrator is someone who has more access to this application and has more features. The customer is another role with less access to this system and by limit functionality features.

An application like Adobe Dreamweaver and XAMPP need to be install on a computer to make sure a PHP coding can be run on your browser. All coding for development of ATD ONLINE SYSTEMS is store on C:\xampp\htdocs\ATD_FYP2 directory. The first step for run this system is by opening a web browser like Internet Explorer, Google Chrome, Mozilla Firefox and the other browser by typing in URL browser http://localhost/ATD_FYP2/index.php. Chose an index.php is to run and display the start page of ATD Online Systems.

# CUSTOMER

# USER'S MANUAL

## ATD ONLINE SYSTEMS

## FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY (FICT)

## MAY 2018

**CUSTOMER User Manual**

1. New Customer Registration Instruction
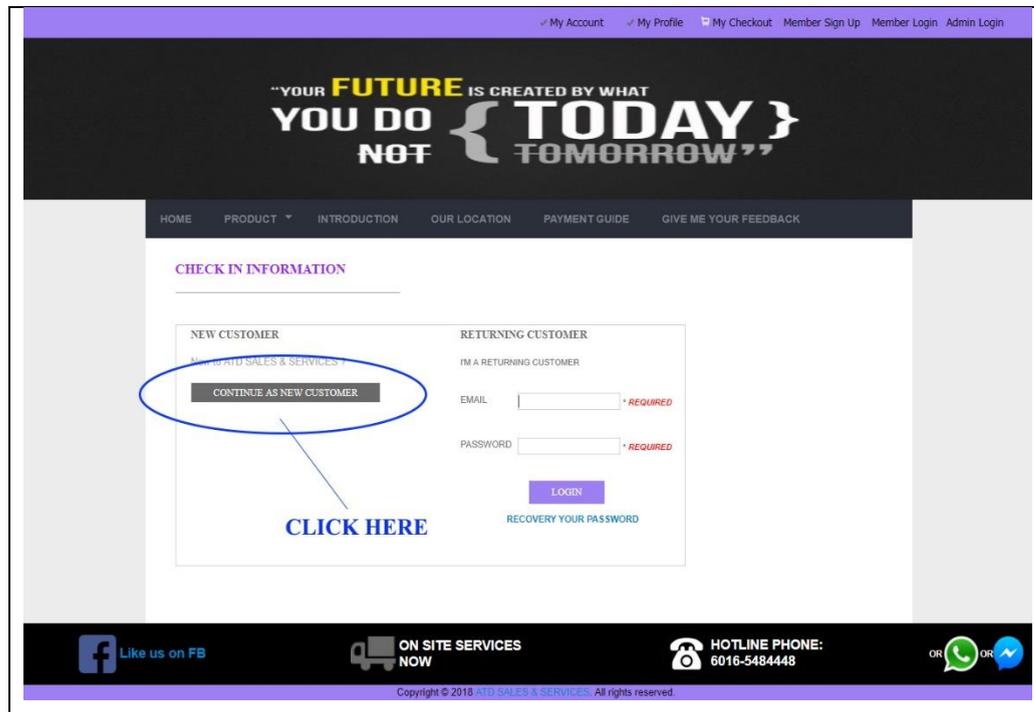


**Figure 4.02: User Manual – Continue as New Customer**
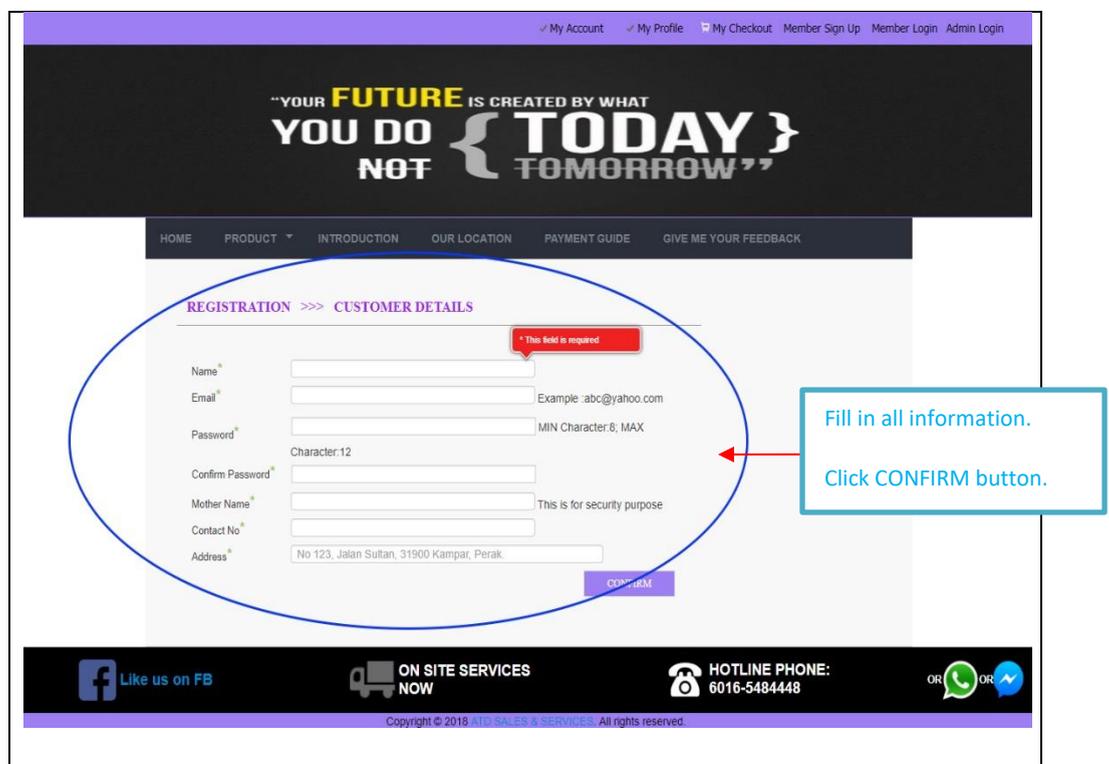


**Figure 4.03: User Manual – New Customer Registration Form**

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The customer cannot log in to the system until they become a new user. New customers must fill in the blue circle to fill out the form. When users want to order products, they need to register. If the user is not registered as a customer, the product can still be viewed but cannot be ordered.

2.    Member Login



**Figure 4.04: User Manual – Member Login Page Interface**

After the user registration is completed, the user can log in using the previously registered email and password. If the user does not type a valid email and password. Then, clicks the "Submit" button, an error message will be prompted as: "This field is required". If the user enters the wrong email and password, an error message is displayed: "Invalid email" or "Password need at least 8 characters." After entering the correct email and password, the user can successfully log in to the system. After that, user can proceed to member account page.

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3.    User Order Products



**Figure 4.05: User Manual – User Order Product Page Interface**

After user has successfully login, user can select their favorited products to their shopping cart. At the shopping cart, user has to key in product quantity and click the add button. Now the shopping cart will display the grand total amount.

4.      Submit an Order



**Figure 4.06: User Manual – Submit Order Form Page Interface**

In the submit order form, if the address is different from the correspondence address, the user can enter the shipping address. The user must select the payment type and click the "Submit" button. If the customer needs to write something, then you can indicate something in the "Customer Comments". "Remark by customer" are an unnecessary part.

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5.    Check Order



**Figure 4.07: User Manual – Check Order Form Page Interface**

After the user confirms the order, if the user makes wrongly while ordering
the product, the user can check their own order status and delete the order.
The user can know if the selected product is in proceeding or not proceed.

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6.    Upload Proof of Payment for purchase



**Figure 4.08: User Manual – Upload Proof of Payment Page Interface**

In the check order form, the user can click on the Upload Payment Proof tab and the payment proof form will appear as shown above. The user can enter the transaction number, transaction date, transaction time and bank amount here. Users can also upload a bank or payment slip by clicking the Select File button and then click the Submit button to confirm the upload.

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# ADMIN'S
# USER MANUAL

## ATD ONLINE SYSTEMS

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**Admin User Manual**

1.     Admin Login
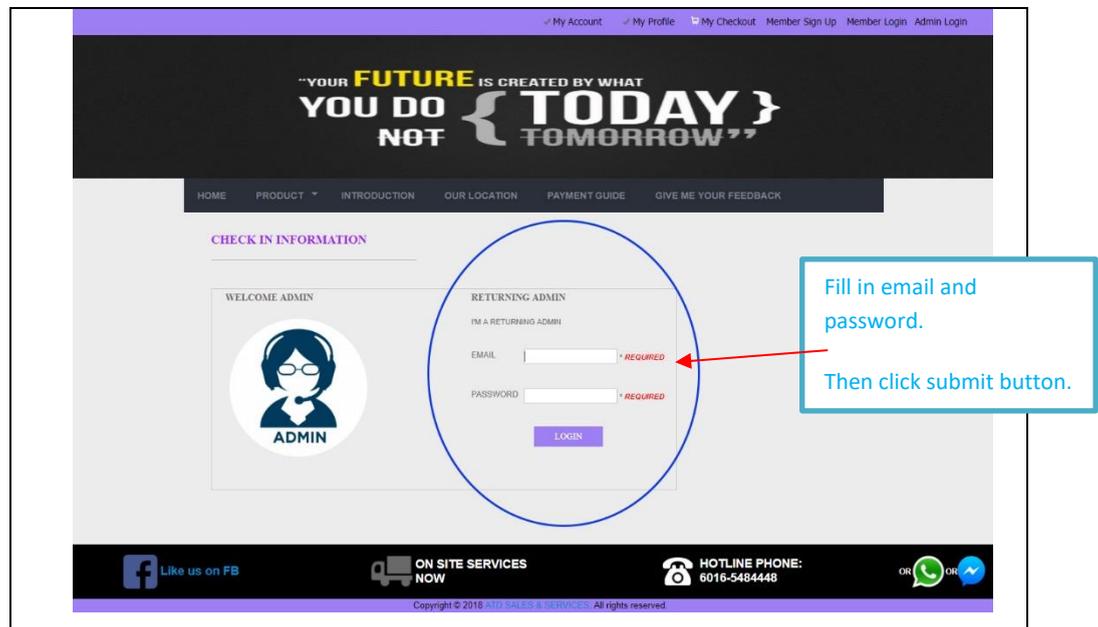


**Figure 4.09: User Manual – Admin Login Page Interface**

Click the " Admin Login" button to log in as an administrator. After that, the administrator login page will be displayed as shown above. The administrator must enter the correct email and password and click the "Submit" button. Now the administrator successfully logs in to the administrator, and the administrator can fully control the content of the ATD Online System website.

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2. Admin Manage User



**Figure 4.10: User Manual – Admin Manage User Page Interface**

When an administrator manages a user form, the administrator can click the Add button icon to add more users. When you click the Edit button, the administrator can edit the user's personal profile. When click the Delete button, admin can delete specific users that are not active.

3. Admin Manage Customer for view registered customer



**Figure 4.11: User Manual – Admin Manage Customer Page Interface**

To view registered customers on the ATD Online Systems website, click on the manage the customer icon and all the information displayed in the database, as shown in Figure 4.11.

4. Admin Manage Orders
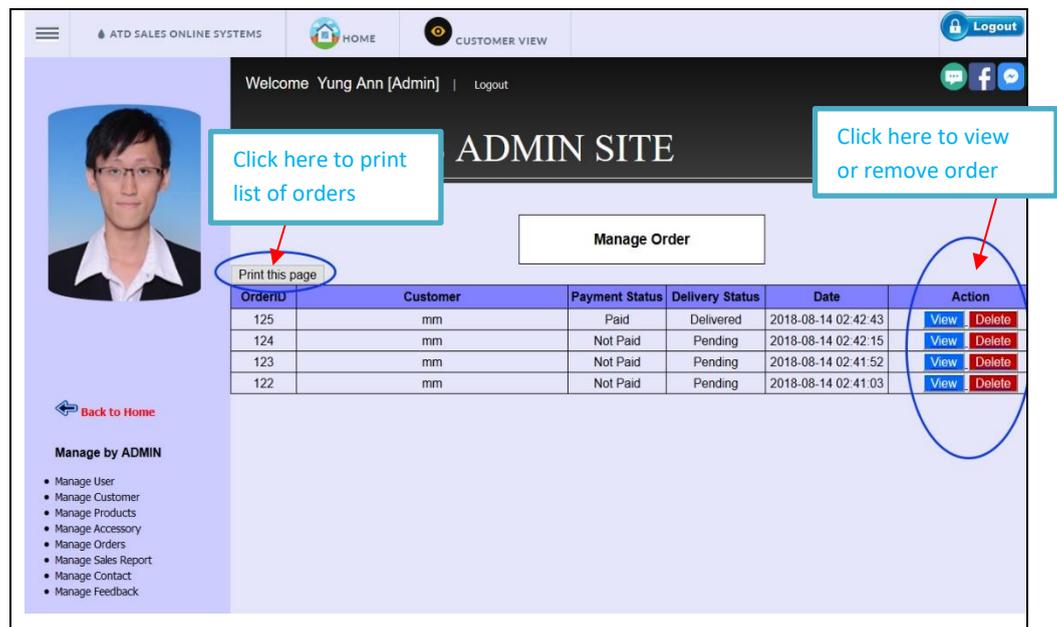


**Figure 4.12: User Manual – Admin Manage Order Page Interface**

To view a list of order reports, click on the "Manage Orders" icon and the order list will be as shown in Figure 4.12. Click the Print Page button to print the order. If the order has not been paid after 7 days, please click the "Delete button" to remove it. Administrators can also click on the view to view the details of the order.

5.    Admin View Orders



**Figure 4.13: User Manual – Admin View Order Details Page Interface**

To view a list of order reports, click the view icon as shown in Figure 4.12. Customer details, payment and shipping details, order details and payment history will be displayed in the system. Administrators can change the payment status and shipping status. The result will be displayed to the customer member profile.

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6.    Admin Manage Feedback



**Figure 4.14: User Manual – Admin Manage Feedback Page Interface**

To see a list of feedback, click the Manage Feedback icon and the Feedback List, as shown in Figure 4.14. The table will display the feedback ID, customer ID, customer name, customer email, customer feedback, customer rate and customer registration date. When the customer provides feedback to the ATD online system, the administrator can respond to the feedback. Administrators can also remove unwanted feedback.

7.   Admin Manage Product



**Figure 4.15: User Manual – Admin Manage Product Page Interface**

To view the product list, the administrator must click on the Manage Products icon and the list of products listed is shown in Figure 4.15 above. Product type, product brand, product name, product image, product details, product price will be displayed in the product table. The administrator can change the product status. If the administrator wants the product to appear on the customer product page, the administrator needs to press Activate (if you no longer need to deactivate the product).

8.  Admin Manage Banner



**Figure 4.16: User Manual – Admin Manage Banner Page Interface**

To view a list of banners, the administrator must click on the Manage Banner icon, which is shown in Figure 4.16 above. If the administrator needs to add a new banner, the administrator must click the Add Item icon. Administrators can edit or delete banners by clicking the Edit or Delete button.

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9. Admin Manage Accessories



**Figure 4.17: User Manual – Admin Manage Accessories Page Interface**

To view a list of accessories, the administrator must click on the Manage Accessories icon, which is shown in Figure 4.17 above. When an administrator needs to add a new accessory, the administrator must click the Add Item icon. Administrators can edit or delete attachments by clicking the Edit or Delete button.

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10. Logout from Admin Site
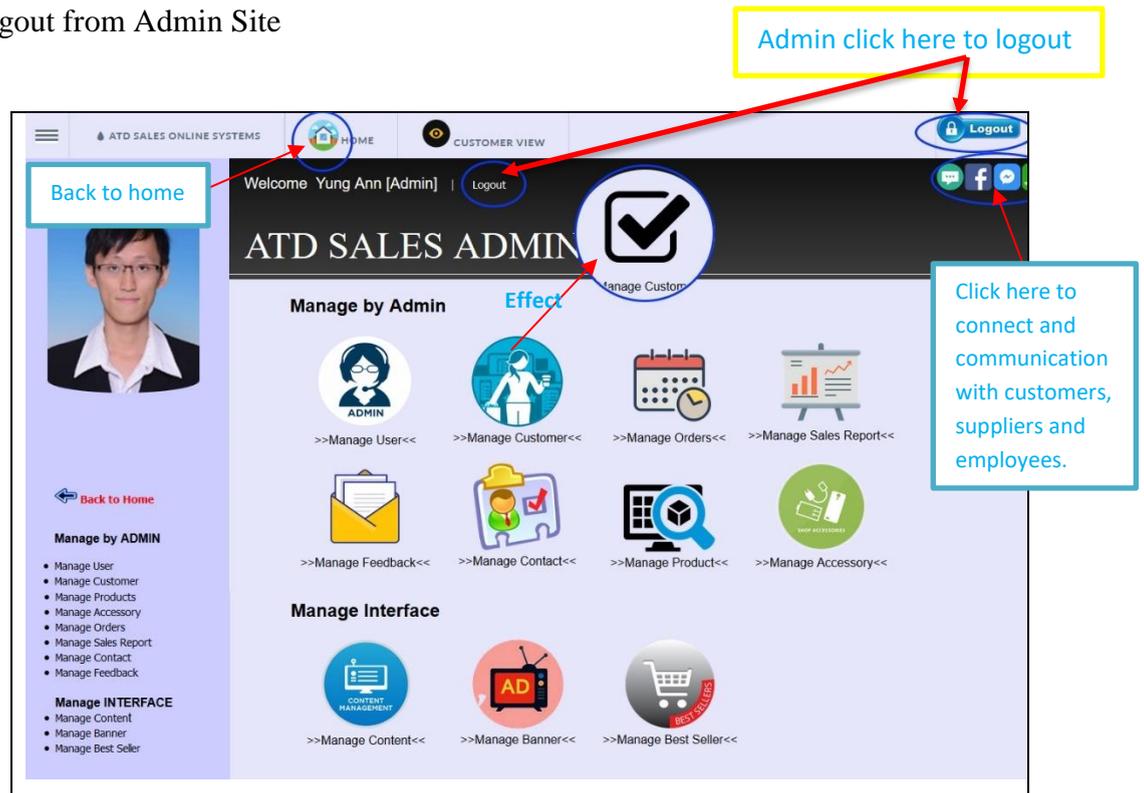


**Figure 4.18: User Manual – The administrator manages the administrator home page and how to navigate to the logout management site Page Interface**

Administrator can click the Home button to go to the "Administrator Home Page". The icon will change the image when you hover over the icon on the main page icon. Administrator can click on the communication buttons to connect and communicate with customers, suppliers and employees. If administrator want to log out of the administrator account, click the Logout tab at the top of the screen, as shown in Figure 4.18 above.

# USER MANUAL
# FOR COMMUNICATIONS


ATD ONLINE SYSTEMS


FACULTY OF INFORMATION AND COMMUNICATION

TECHNOLOGY (FICT)


# MAY 2018

**COMMUNICATION USING WHATSAPP FOR CUSTOMER/SUPPLIER:**

**Step 1:** Click this icon



**Step 2:** Click the send button



**Step 3:** Scan the QR Code

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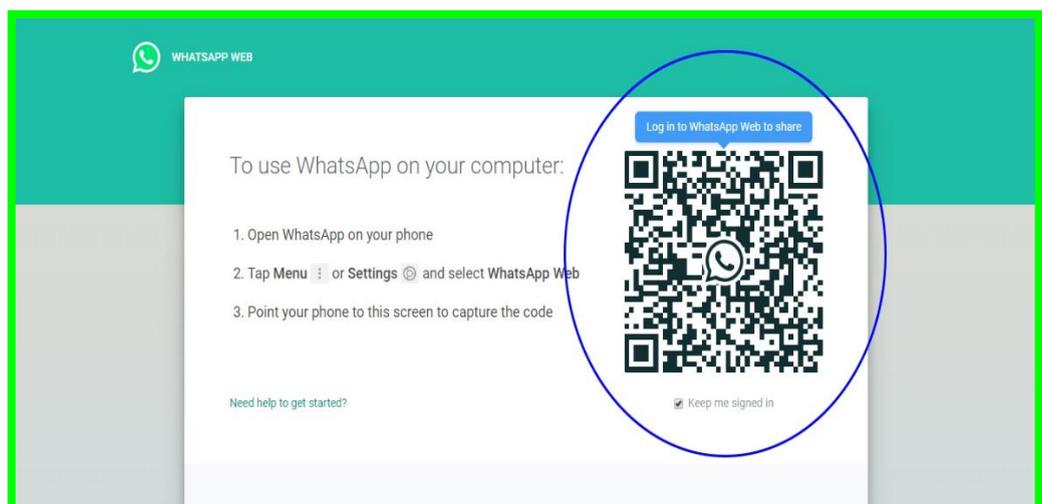
**Step 4:** Automatic say hi instruction generated.
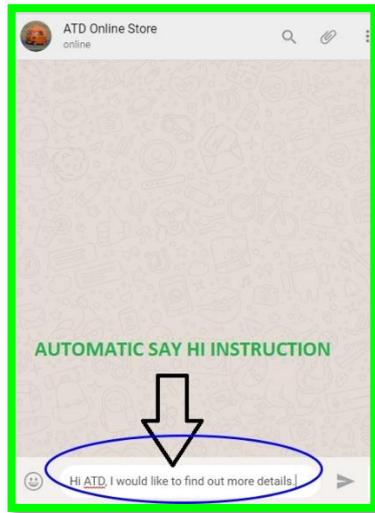


**Step 5:** Continue chat with ATD Online Systems administrator.

**Figure 4.19: User Manual: Communication Using WhatsApp**

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**COMMUNICATION USING MESSENGER FOR CUSTOMER/SUPPLIER:**

**Step 1:** Click this icon
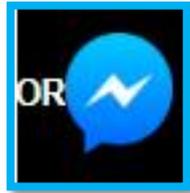


**Step 2:** Type in your email address and password.
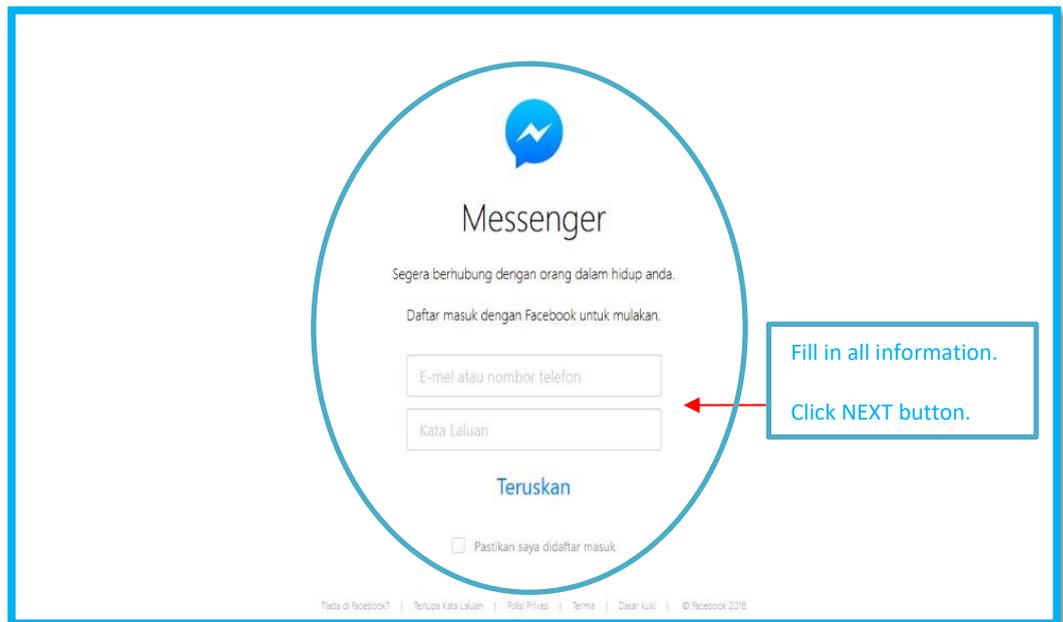
**Step 3:** The system links directly to ATD messenger and you can start chatting right away.
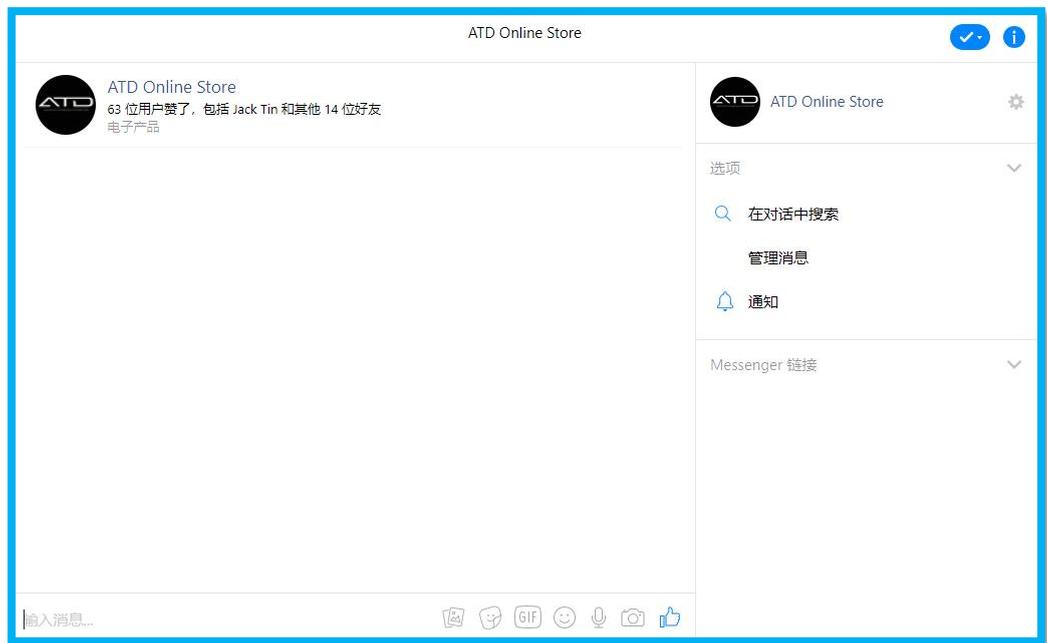


**Figure 4.20: User Manual: Communication Using Messenger**

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**COMMUNICATION USING LIVECHAT FOR CUSTOMER/SUPPLIER:**

**Step 1:** Press the icon

Click the icon button.
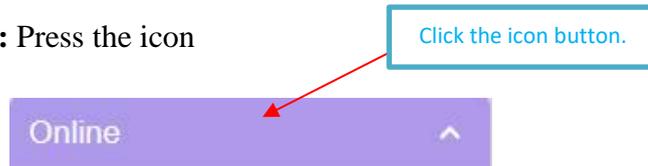


Online

**Step 2:**

This chat will notify the administrator if it is available.

For example: online (administrator available) and away (administrator busy).



Away

**Step 3:**

This chat means that customer support or administrators are now available.

You can now chat directly.

Display message



Online

Customer Support

Welcome to our site, if you need help simply reply to this message, we are online and ready to help.

Type here and press enter..

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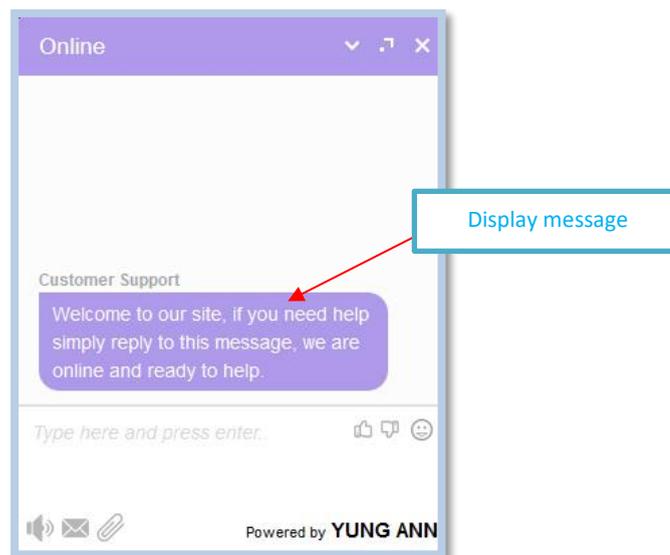
**Step 4:**

The customer/supplier can change the name for future conversations. The system will automatically collect and save the name to the system.
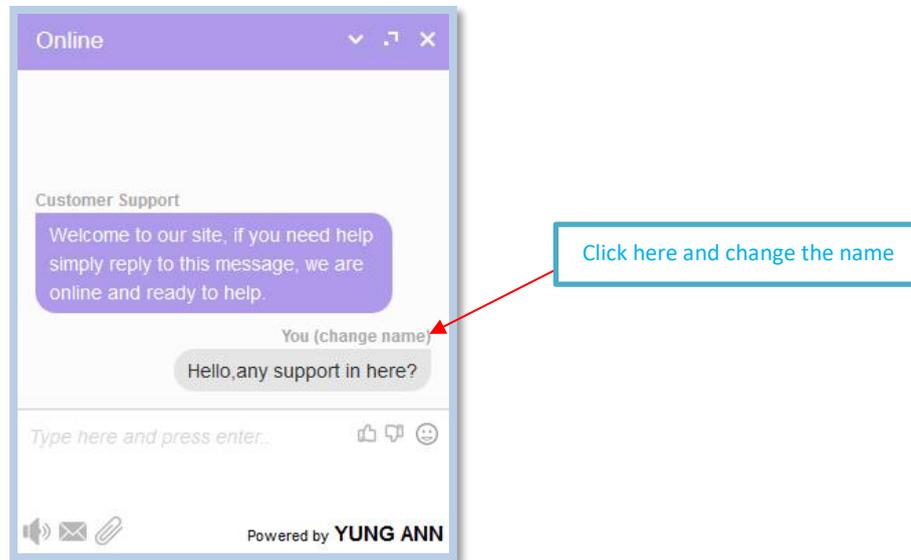


**Step 5:**

You can now start a live chat conversation.
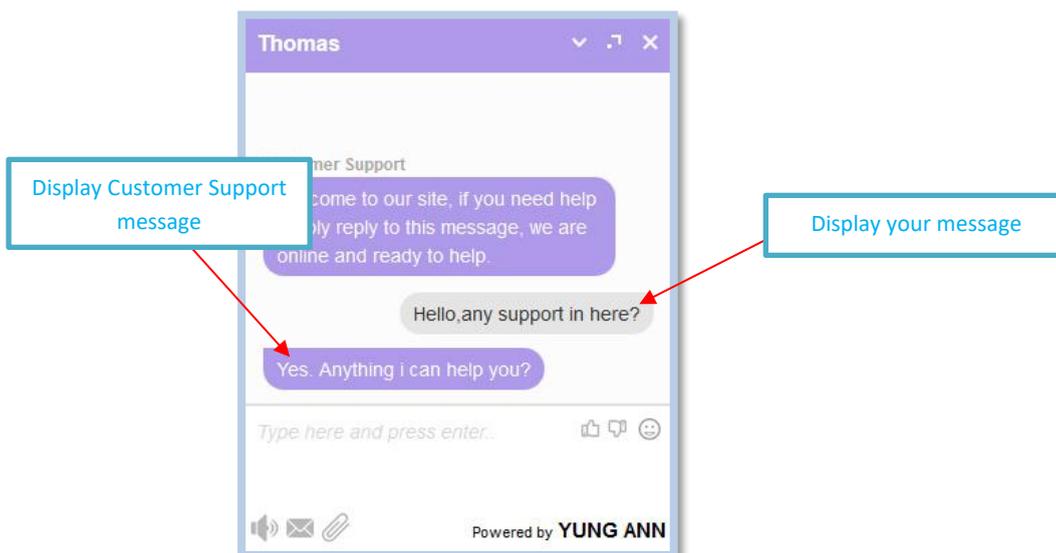


**Figure 4.21: User Manual: Communication Using Live Chat**

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**COMMUNICATION USING LIVECHAT FOR ADMINISTRATOR:**

**Step 1:** The admin panel for live chat will sound. A pending chat request will appear in the system.
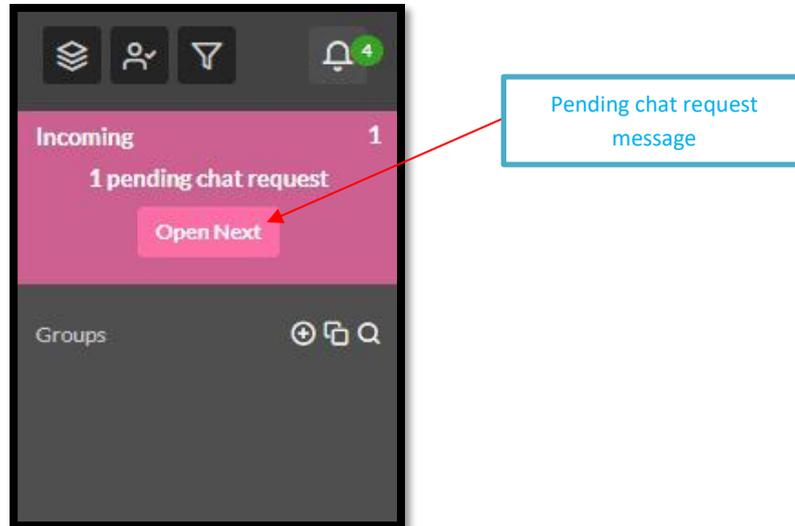


**Step 2:** The admin panel for live chat will record the conversation. The system will store the customer navigate which page. The system will automatic store this conversation.
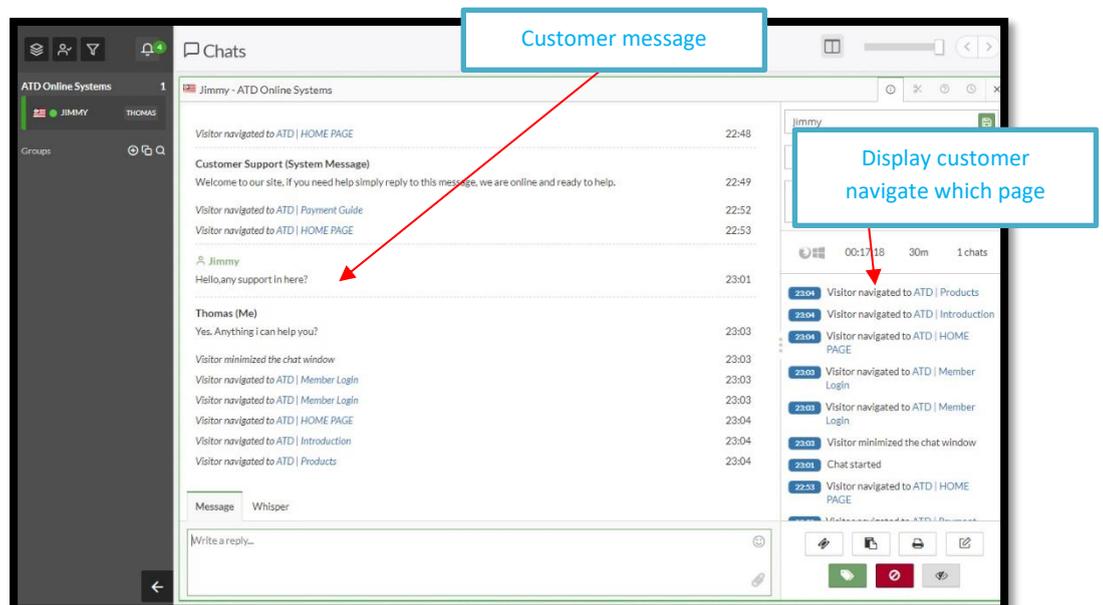


**Figure 4.22: User Manual: Communication Using Live Chat for Administrator**

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# CHAPTER 5: TOOLS AND TECHNOLOGIES

Web developers use different tools to design website depend on what stage of production process they are currently involved in. The common principles and techniques behind design website remain the same, but over time these tools are updated by latest software and standards. To create web-formatted imagery or design prototypes, web developers use both vector and raster graphics editors.

Some common technologies apply for develop websites include HTML and CSS, which belong to W3C standards, can be generated by What You See Is What You Get (WYSIWYG) editor software or can be hand-coded. Another powerful tool is PHP which release is for create dynamic web pages. Currently, PHP is one of the major languages used for design websites in the market

The implementation of another new technique called XMLHTTP in the Outlook web application lead the way for AJAX development. AJAX is another useful technique and tool which web users can retrieve new data without web page refreshing.

Next useful tool is JavaScript which unleashing the power for web design. JavaScript helped web designers to get the better of static HTML limitation by bringing in some motions to the website.  An example of this website motion is the "pop-up" window. But JavaScript will cause websites to load slower because it has to load on top of the existing page. Because of this load slower problem, nowadays many of the early version functions of JavaScript were now can be accomplished via CSS. Today, JavaScript is still advancing strongly in the market and evolved with the new front-end version name as jQuery.

Another useful web tool is known as Flash. Flash also refer to as the golden age of web animation. Flash transform the landscape of website design to a new era. With the help of Flash, web designers manage to create a lot of shapes, add more animation functions and develop more web sites by using only just one single tool. End page would neatly pack together all information into a single file for loading. The main problem for Flash was that not every web user had a Flash plugin installed. In this case Flash sites took longer time for loading. Flash downfall came from because not being "search friendly"

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and Flash consumes a lot of processing power. This caused Apple to leave Flash behind in 2007's for their release of the iPhone.

Lastly, a more flexible way to create web design using Cascading Style Sheets (CSS). Soon after the invention of Flash, CSS made its way into the web design scene. Since a large number of web users were going online in recently years, speed is a big issue for them. The theory behind CSS is simple. Presentation and Content are separated. The style of the website was coded in CSS whereas the website content was coded in HTML. The early main problem for CSS was the poor browser support. Luckily CSS work hard in the early years and today it is still in full use by web designers. Until today, CSS still the most important web "language" to learn for a web designer.

# CHAPTER 6: IMPLEMENTION AND TESTING

## 6.1 Introduction

Implementation and testing phase are used for completed system to test all functions and to ensure it can run properly as plan. The implementation phase will be conducted by ATD SALES & SERVICES staffs. The testing on the ATD ONLINE SYSTEMS should be free from any bugs and failures.

## 6.2 System design

Implementation and design of the system has been built based on the specifications that have been formulated according to a particular page. Designs and implementation used in the system is divided into three categories, namely customers, employees and system administrators.

Table 6.01 shows the status of the implementation of the home page.

**Table 6.01:  Implementation status of the home page.**

| Page name | Home Page |
|---|---|
| Description | Develop and describes the background of the company main page. |
| Duration of Completion | 3 days |
| Development process | 100% |

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Table 6.02 shows the status of implementation of the login page.

**Table 6.02:  Implementation status of the login page.**

| Page name | Login Page |
|---|---|
| Description | Users can log into the system based on the typ of access and right that has been set, whether f customers, employees or admin. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.03    shows   the status of implementation of the registration page.

**Table 6.03:  Implementation status of the registration page.**

| Page name | Registration Page |
|---|---|
| Description | Customers can sign up as a new member, by fill in the personal details provided. For customers already became a member, can also login to the system easily. |
| Duration of Completion | 1 day |
| Development process | 100% |

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Table 6.04 shows the status of implementation of the product page.

**Table 6.04    Implementation status of the product page.**

| | |
|---|---|
| Page name | Product Page |
| Description | Describe the types of products that can be order from the system. Customers can order a variety of products by pressing the Add to Cart button. |
| Duration of Completion | 3 days |
| Development process | 100% |

Table 6.05   shows the status of   implementation of the payment guide page.

**Table 6.05   Implementation status of the payment guide page.**

| | |
|---|---|
| Page name | Payment Guide Page |
| Description | Described the proper ways of payment if customers wish to make an order. Described bank account details and credit cards information. |
| Duration of Completion | 1 day |
| Development process | 100% |

Table 6.6   shows the status of implementation of our location page.

**Table 6.6    Implementation status of our location page.**

| Page name | Our Location Page |
|---|---|
| Description | Describes the company's address, contact telephone number and also location map of ATD SALES & SERVICES. |
| Duration of Completion | 1 day |
| Development process | 100% |

Table 6.7   shows the status of   implementation of the detail of the products page.

**Table 6.7   Implementation status of the detail of the products page.**

| Page name | Detail of The Products Page |
|---|---|
| Description | Describe the details of the product information such as name, product code, price, category and picture of the product. |
| Duration of Completion | 3 days |
| Development process | 100% |

Table 6.8 shows the status of implementation of the feedback page.

**Table 6.8   Implementation status of the feedback page.**

| Page name | Feedback Page |
|---|---|
| Description | Create the feedback form for customers to make complains and comments. |
| Duration of Completion | 1 day |
| Development process | 100% |

Table 6.9 shows the status of implementation of the point of sales page.

**Table 6.9   Implementation status of the point of sales page.**

| Page name | Point of Sales Page |
|---|---|
| Description | Describe point of sales promotion packages page. Various packages offer according to different prices. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.10    shows the status of implementation of the add to cart page.

**Table 6.10    Implementation status of the add to cart page.**

| Page name | Add to Cart Page |
|---|---|
| Description | Customers can purchase products, add, delete and update shopping cart. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.11    shows the status of implementation of the manage product page (admin).

**Table 6.11 Implementation status of the manage product page (admin).**

| Page name | Manage Product Page (Admin) |
|---|---|
| Description | Admin can add, update, delete, display and print all the product they need. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.12    shows the status of implementation of the customer lists page (admin).

**Table 6.12 Implementation status of the customer lists page (admin).**

| Page name | Customer Lists Page (Admin) |
|---|---|
| Description | Admin can insert, update, delete, display and print customer lists. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.13   shows the status of implementation of the manage order page (admin).

**Table 6.13    Implementation status of the manage order page (admin).**

| Page name | Manage Order Page (admin) |
|---|---|
| Description | Admin can insert, update, delete, display and print Orders. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.14   shows the status of implementation of the reports page (admin).

**Table 6.14   Implementation status of the reports page (admin).**

| Page name | Reports Page (admin) |
|---|---|
| Description | Admin can view and print various reports. |
| Duration of Completion | 3 days |
| Development process | 100% |

Table 6.15   shows the status of implementation of the upload proof of payment page.

**Table 6.15   Implementation status of the upload proof of payment page.**

| Page name | Upload Proof of Payment Page |
|---|---|
| Description | After customers cash bank in or internet banking transfer payment, admin can view and record customers upload proof of payment. |
| Duration of Completion | 2 days |
| Development process | 100% |

Table 6.16   shows the status of implementation of the customer shipping address page.

**Table 6.16    Implementation status of the customer shipping address page.**

| Page name | Customer Shipping Address Page |
|---|---|
| Description | Create customer shipping address form, so that customers can fill in delivery address when that is an order. |
| Duration of Completion | 1 day |
| Development process | 100% |

**6.3     System Testing**

**ATD ONLINE SYSTEMS** will be tested first, to identify the problems that might occur. Problems in the system will be upgraded to produce a system that works and easy to use. Testing in a system divided into alpha testing and beta testing.

**6.3.1   Unit Testing Plan**

Unit testing phase is a plan that conduct to detect any error on the system. Table below shows the testing plan that was conducted.

**6.3.1.1 Member Sign Up**

Table 6.17 shows the unit testing plan for Member Sign Up.

**Table 6.17: Member Sign Up**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|----------------|----------------|---------------|-----------------|--------|
| 1 | Member Sign Up Hyperlink button | 1. Customer press the Member Sign Up Hyperlink button<br>2. Customer press again the Member Sign Up Hyperlink button | None | 1. When member sign up hyperlink button was clicked and does not display member sign up form, this is a login error<br>2. Successful display Member Sign Up Form | Successful |

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### 6.3.1.2 New User Registration

Table 6.18 shows the unit testing plan for New User Registration Form

**Table 6.18: New User Registration Form**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|----------------|----------------|---------------|-----------------|--------|
| 1 | Name | 1. The customer Name field is left blank, and enter is pressed<br>2. The customer Name field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Name<br>2. Successful login | Successful |
| 2 | Email | 1. Email address field is left blank, and pressed enter<br>2. The valid Email address is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the email address<br>2. Successful login | Successful |
| 3 | Mother Name | 1. Mother Name field is left blank, and pressed enter<br>2. The valid Mother Name is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the mother name<br>2. Successful login | Successful |

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| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 4 | Password | 1. The password field is left blank, and enter is pressed<br>2. The valid password field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the password<br>2. Successful login | Successful |
| 5 | Confirm Password | 1. The Confirm Password field is left blank, and enter is pressed<br>2. The valid Confirm Password field is fill, and enter is pressed | Customer need register first | 1. An error message must be prompted by login form instructing the customer to type in the Confirm Password<br>2. Successful login | Successful |
| 6 | Contact Telephone Number | 1. Contact Telephone Number field is left blank, and pressed enter<br>2. The valid Contact Telephone Number is fill, and press enter | Customer need register first | 1. An error message must be prompted by login form instructing the customer to type in the Contact Telephone Number<br>2. Successful login | Successful |

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 7 | Address | 1. The Address field is left blank, and enter is pressed<br>2. The Address field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Address<br>2. Successful login | Successful |

### 6.3.1.3 Customer Change Password

Table 6.19 shows the unit testing plan for customer change password

**Table 6.19 Customer Change Password**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 1 | Current Password | 1. The customer Current Password field is left blank, and enter is pressed <br> 2. The customer Current Password field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Current Password <br> 2. Successful Login | Successful |
| 2 | New Password | 1. The New Password field is left blank, and enter is pressed <br> 2. The New Password field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the New Password <br> 2. Successful login | Successful |

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 3 | Re-type password | 1. Re-type password field is left blank, and press enter<br>2. Re-type password field is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the Re-type Password<br>2. Successful login | Successful |

### 6.3.1.4 Member Login

Table 6.20 shows the unit testing plan for member login.

**Table 6.20: Member Login**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|----------------|----------------|---------------|-----------------|--------|
| 1 | Email | 1. The email field is left blank, and enter is pressed<br>2. The valid email address field is fill, and enter is pressed | User need register first | 1. error message prompted instructing the admin to type in the valid email<br>2. Successful Login | Successful |
| 2 | Password | 1. The password field is left blank, and enter is pressed<br>2. The valid password field is fill, and enter is pressed | User need register first | 1. error message prompted instructing the admin to type in the Password<br>2. Successful Login | Successful |

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### 6.3.1.5 Registration Form for User

Table 6.21 shows the unit testing plan for registration form for user

**Table 6.21: Registration Form for User**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 1 | Name | 1. The customer Name field is left blank, and enter is pressed<br>2. The customer Name field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Name<br>2. Successful login | Successful |
| 2 | Email | 1. Email address field is left blank, and pressed enter<br>2. The valid Email address is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the email address<br>2. Successful login | Successful |

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|----------------|----------------|---------------|-----------------|--------|
| 3 | Mother Name | 1. Mother Name field is left blank, and pressed enter<br>2. The valid Mother Name is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the mother name<br>2. Successful login | Successful |
| 4 | Password | 1. The password field is left blank, and enter is pressed<br>2. The valid password field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the password<br>2. Successful login | Successful |
| 5 | Confirm Password | 1. The Confirm Password field is left blank, and enter is pressed<br>2. The valid Confirm Password field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Confirm Password<br>2. Successful login | Successful |

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 6 | Contact Telephone Number | 1. Contact Telephone Number field is left blank, and pressed enter<br>2. The valid Contact Telephone Number is fill, and press enter | Customer need register first | 1. error message prompted instructing the customer to type in the Contact Telephone Number<br>2. Successful login | Successful |
| 7 | Address | 1. The Address field is left blank, and enter is pressed<br>2. The Address field is fill, and enter is pressed | Customer need register first | 1. error message prompted instructing the customer to type in the Address<br>2. Successful login | Successful |

### 6.3.1.6 Admin Login

Table 6.22 shows the unit testing plan for Admin Login.

**Table 6.22: Admin Login**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|----------------|----------------|---------------|-----------------|--------|
| 1 | Email | 1. The email field is left blank, and enter is pressed<br>2. The valid email address field is fill, and enter is pressed | Admin need register first | 1. error message prompted instructing the admin to type in the valid email<br>2. Successful Login | Successful |
| 2 | Password | 1. The password field is left blank, and enter is pressed<br>2. The valid password field is fill, and enter is pressed | Admin need register first | 1. An error message must be prompted by login form instructing the admin to type in the Password<br>2. Successful Login | Successful |

### 6.3.1.7 Edit Admin Profile

Table 6.23 shows the unit testing plan for edit admin profile.

**Table 6.23: Edit Admin Profile**

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|---|---|---|---|---|---|
| 1 | Name | 1. The admin Name field is left blank, and enter is pressed 2. The admin Name field is fill, and enter is pressed | Admin need register first | 1. error message prompted instructing the admin to type in the admin Name 2. Successful Edit Admin Name | Successful |
| 2 | Email | 1. The email field is left blank, and enter is pressed 2. The valid email address field is fill, and enter is pressed | Admin need register first | 1. error message prompted instructing the admin to type in the valid email 2. Successful edit admin email | Successful |

| No | Test Case Name | Test Procedure | Pre-condition | Expected Result | Result |
|----|---------------|----------------|---------------|-----------------|--------|
| 3 | Upload Photo | 1. The admin Upload Photo field is left blank, and enter is pressed<br>2. The admin Upload Photo field is fill, and enter is pressed | Admin need register first | 1. error message prompted instructing the admin to type in the admin Upload Photo<br>2. Successful Upload Photo | Successful |
| 4 | Status | 1. The Status drop down menu is not selected<br>2. Status drop down menu selected | Admin need register first | 1. No error message prompted<br>2. Successful Update Status | Successful |

### 6.3.2   User Accepting Testing

User accepting testing is a testing conducted to test the suitability of the function at the final stage before the system is fully completed. The system will be tested by the users who will use the system. User accepting testing has been tested by Mr. Andy Lau How Suai, general manager of ATD SALES & SERVICES.

The questionnaires were made and given to Mr. Andy Lau. The form is found on appendix B. The results are very encouraging. Feedback given by Mr. Andy Lau is satisfactory. Comments given: website without latest and advanced features, but thank you for simple layout, user-friendly and design suit our needs on selling and managing sales online. Overall, the company is satisfied with the system.

### 6.4   Conclusion

Implementation and testing phase carry out for customers to ensure that ATD SALES & SERVICES online shopping system can be applied properly and systematically. After testing **ATD ONLINE SYSTEMS,** the developed system meets ATD requirement and is in satisfactory condition.

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# CHAPTER 7: PROJECT CONCLUSION AND DISCUSSION

## 7.1    Introduction

An ATD ONLINE SYSTEMS (ATD) had successfully developed for ATD SALES & SERVICES. ATD ONLINE SYSTEMS developed with many common website functions and features. In addition, a Customer Relationship Management (CRM) module is developed for ATD to keep old loyalty customers and to convert prospects to be new customers.

This ATD ONLINE SYSTEMS developed with nine (9) general website pages namely Main Page, Product Page, Accessories Page, Point of Sale Page, Our Location Page. About Us Page, Payment Guide Page, Customer Feedback Page and Link to Facebook Page. In addition, nine (9) Member Site Pages, five (5) Customer Site Pages, twenty-three (23) Admin Site Pages and twenty (20) Databases were created.

Contributions of the project include website with Customer Relationship Management module to keep ATD old and new customers. ATD ONLINE SYSTEMS designed with Content Management so that ATD website management team can regularly make changes (add or update any photos and text if needed) without engage any website designer. This will save ATD website maintenance cost.

ATD ONLINE SYSTEMS has many advantages but also has some disadvantages. Advantages will help to manage ATD ONLINE SYSTEMS in a more organized and secure way. Weakness of the system need to be rectify as soon as possible in the near future.

Each advantage and disadvantage that was found in the implementation phase will be well documented and keep for future development use. Advantages will be study and keep for future improvement. Weaknesses in the ATD system also need to be rectify or improve as soon as possible with new ideas.

## 7.2    System Advantage and Disadvantage

Developed ATD system will be review and analyze in implementation and testing phase. Some of the advantages and disadvantages of the system will be summarized and improvement will be carry out for all the weaknesses.

### 7.2.1   Advantages of System

The main purpose to develop **ATD ONLINE SYSTEMS** is to help ATD manage online sales more systematically. Below are some of the advantages of the ATD ONLINE SYSTEMS:

i.      ATD ONLINE SYSTEMS provides an attractive interface, simple and easily understood by customers.

ii.     Admin can view information about customer, product and report information.

iii.    Employee is able to check the product order from customers.

iv.     Customer able to select products thru categories searching and can add products to cart.

v.      Customer can shop relaxing at home without any traffic jam to physical store.

### 7.2.2   Disadvantages of System

Some of the disadvantages of this ATD ONLINE SYSTEMS are listed below:

i.      The ATD system does not has higher security to prevent hacker from stealing company's information.

ii.     ATD system does not support payment gateway integration (MOLPay, PayPal, 2CheckOut, IPay88).

iii.    ATD system does not has online cloud backup.

iv.     ATD website does not supported by smartphone applications

## 7.3 Future Implementations

In order to enhance the project future work, it is very important to overcome all the disadvantages or weakness of ATD ONLINE SYSTEMS:

i. To develop the system can support payment gateway integration.

ii. To develop the system can support online cloud backup.

iii. To develop the system can support by smartphone application.

iv. To develop the system with more security functions to prevent hackers from stealing private sensitive information

## 7.4 Conclusion

People choose online shopping because of convenience at home and may get for cheaper product price. Customers can visit ATD ONLINE SYSTEMS website comfort from house computer or mobile smart phones. ATD ONLINE SYSTEMS can help ATD to efficiently manage database properly. Every developed system will have some advantages and also have some disadvantages. Advantages will help ATD easy to manage and organize company database orderly. Weaknesses need to improve as soon as possible to satisfy customer's needs.

In today modern world, a lot of people prefer to shop online rather than shop at physical store. Customers can visit ATD SALES & SERVICES website freedom from the house computer. ATD ONLINE SYSTEMS assists ATD to manage customer database in a more efficient and secure manner.

ATD SALES & SERVICES urgently need a website with complete modern website features to fulfill their fast growing of customers. Customers can view latest products list and place order using computer or smart phone. ATD website must record the customer database in a more secure manner.

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Demo, L., Ecommerce, M., Solution, M., Support, 2., X-Cart, M., Consulting, S., Services, M., Services, E., Certificates, S., partner, B., Docs, H., stories, S., Partners, I., Login, H. and Us, C. (2018). *#1 Ecommerce Shopping Cart Software & Open Source Platform.* [online] X-Cart. Available at: http://www.x-cart.com/ [Accessed 19 Jun. 2018].

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# APPENDIX A

My Poster:

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# APPENDIX B

## FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 1 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed writing Acknowledgements

Completed writing Abstract

**2. WORK TO BE DONE**

Prepare to write

    1.1 Problem Statement
    1.2 Background Information
    1.3 Motivation

**3. PROBLEMS ENCOUNTERED**

At this stage, no problem encountered

**4. SELF EVALUATION OF THE PROGRESS**

Progress in order as plan

_____    _____
Supervisor's signature    Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 2 |
| **Student Name & ID:**  TAN YUNG ANN 15ACB05762 | |
| **Supervisor:**  MR. TEY CHEE CHIEH | |
| **Project Title:**  ATD ONLINE SYSTEMS | |

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed writing

1.1  Problem Statement
1.2  Background Information
1.3  Motivation

**2. WORK TO BE DONE**

Prepare to write

1.4  Project Objectives
1.5  Project Scope
1.6  Proposed approach/study
1.7  Impact, significance and contribution

**3. PROBLEMS ENCOUNTERED**

At this stage, no problem encountered.

**4. SELF EVALUATION OF THE PROGRESS**

Progress in order as plan.

_____          _____
Supervisor's signature                    Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 3 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed writing

1.4 Project Objectives
1.5 Project Scope
1.6 Proposed approach/study
1.7 Impact, significance and contribution

**2. WORK TO BE DONE**

Prepare to write

1.8 Highlight of what have been achieved
1.9 Report organization

**3. PROBLEMS ENCOUNTERED**

No problem encountered.

**4. SELF EVALUATION OF THE PROGRESS**

Progress smoothly as plan.

_____          _____
Supervisor's signature                    Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 4 |
|---|---|
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

---

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed writing

1.8 Highlight of what have been achieved
1.9 Report organization

---

**2. WORK TO BE DONE**

Prepare to write

2.1 Literature Review Introduction
2.2 Modern Website Development Analysis
2.3 Web Quality Factors Review
2.4 Review Concluding Remarks
2.5 Review Samples

---

**3. PROBLEMS ENCOUNTERED**

No problem encountered.

---

**4. SELF EVALUATION OF THE PROGRESS**

Progress smoothly as plan.

---

_____        _____

Supervisor's signature                Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 5 |
| **Student Name & ID:**  TAN YUNG ANN 15ACB05762 | |
| **Supervisor:**  MR. TEY CHEE CHIEH | |
| **Project Title:**  ATD ONLINE SYSTEMS | |


**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed writing

2.1  Literature Review Introduction
2.2  Modern Website Development Analysis
2.3  Web Quality Factors Review
2.4  Review Concluding Remarks
2.5  Review Samples

**2. WORK TO BE DONE**

Prepare to write

2.6  Comparison between 5 existing software
2.7  Highlight and compare with ATD ONLINE SYSTEMS
2.8  Functionalities/features proposed for ATD
2.9  Summary

**3. PROBLEMS ENCOUNTERED**

Literature Review need a lot of typing and research.

**4. SELF EVALUATION OF THE PROGRESS**

Progress not smooth, but still can complete report writing as schedule.


_____          _____
Supervisor's signature                             Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 6 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed writing

2.6 Comparison between 5 existing software
2.7 Highlight and compare with ATD ONLINE SYSTEMS
2.8 Functionalities/features proposed for ATD
2.9 Summary

## 2. WORK TO BE DONE

Prepare to write

3.1 Software and Hardware Requirement
3.2 Draw ERD Diagram
3.3 Draw Data Flow Diagram
3.4 Draw Context Diagram
3.5 Draw Flow Chart

## 3. PROBLEMS ENCOUNTERED

No problem encountered.

## 4. SELF EVALUATION OF THE PROGRESS

Progress smoothly as plan.


_____                    _____
Supervisor's signature                                              Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 7 |
| **Student Name & ID:**  TAN YUNG ANN 15ACB05762 | |
| **Supervisor:**  MR. TEY CHEE CHIEH | |
| **Project Title:**  ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed Writing

3.1  Software and Hardware Requirement
3.2  Draw ERD Diagram
3.3  Draw Data Flow Diagram
3.4  Draw Context Diagram
3.5  Draw Flow Chart

## 2. WORK TO BE DONE

Prepare to write, design and check.

3.6  Logical System Design
    a)  Main Page
    b)  Member Sign Up Login
    c)  Member Login
    d)  Product Page
    e)  Point of Sales Page

## 3. PROBLEMS ENCOUNTERED

No problem encountered.

## 4. SELF EVALUATION OF THE PROGRESS

Progress smoothly as plan
.

_____          _____
Supervisor's signature                     Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 8 |
| **Student Name & ID:**  TAN YUNG ANN 15ACB05762 | |
| **Supervisor:**  MR. TEY CHEE CHIEH | |
| **Project Title:**  ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed Writing

3.6 Logical System Design
  a) Main Page
  b) Member Sign Up Login
  c) Member Login
  d) Product Page
  e) Point of Sales Page

## 2. WORK TO BE DONE

Prepare to write

3.6  Logical System Design
  f) Our Location Page
  g) Payment Guide Page
  h) Customer Sell Product Add to Cart
  i) Customer Edit My Profile
  j) Customer View My Account

## 3. PROBLEMS ENCOUNTERED

No problem encountered.

## 4. SELF EVALUATION OF THE PROGRESS

Progress smoothly as plan.

_____          _____

Supervisor's signature                            Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 9 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed Writing

3.6 Logical System Design
- f) Our Location Page
- g) Payment Guide Page
- h) Customer Sell Product Add to Cart
- i) Customer Edit My Profile
- j) Customer View My Account

## 2. WORK TO BE DONE

Prepare to write

3.6 Logical System Design
- k) Admin Login
- l) Admin Manage User
- m) Admin Manage Contact
- n) Admin Manage Customer
- o) Admin Manage Orders

## 3. PROBLEMS ENCOUNTERED

No problem encountered.

## 4. SELF EVALUATION OF THE PROGRESS

Progress smoothly as plan.

_____          _____
Supervisor's signature                              Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| Trimester, Year: MAY 2018 | Study week no.: WEEK 10 |
|---|---|
| Student Name & ID:  TAN YUNG ANN 15ACB05762 | |
| Supervisor:  MR. TEY CHEE CHIEH | |
| Project Title:  ATD ONLINE SYSTEMS | |

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Completed Writing

3.6 Logical System Design
- k) Admin Login
- l) Admin Manage User
- m) Admin Manage Contact
- n) Admin Manage Customer
- o) Admin Manage Orders

**2. WORK TO BE DONE**

Prepare to write

3.6 Logical System Design
- p) Admin Manage Sales Report
- q) Admin Manage Product

3.7 Physical Design
- a) Main Page
- b) Login Page
- c) New Customer Registration Form Page
- d) Product Page
- e) Point of Sales Page
- f) Shopping Cart Page
- g) Payment Guide Page
- h) Our Location Page
- i) Customer Order List Page

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**3. PROBLEMS ENCOUNTERED**

No problem encountered.

**4. SELF EVALUATION OF THE PROGRESS**

Progress smoothly as plan.

_____          _____
Supervisor's signature                                      Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 11 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed Writing

3.6 Logical System Design
- p) Admin Manage Sales Report
- q) Admin Manage Product

3.7 Physical Design
- a) Main Page
- b) Login Page
- c) New Customer Registration Form Page
- d) Product Page
- e) Point of Sales Page
- f) Shopping Cart Page
- g) Payment Guide Page
- h) Our Location Page
- i) Customer Order List Page

## 2. WORK TO BE DONE

Prepare to write

3.7 Physical Design
- j) Admin Home Page
- k) Add More Admin Form Page (Create Table/ Add / Edit / Delete)
- l) List of Customer
- m) Customer Order List Page Interface

3.8 Implementation Issues and challenges

3.9 Timeline

Chapter 4: Methodology

4.1 Type of Methodology

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Chapter 5: Tools and Technologies

5.1 Tools and Technologies


Chapter 6: Implementation and Testing

6.1 Introduction
6.2 System Design
6.3 System Testing
6.4 Conclusion


Chapter 7: Conclusion and Discussion

7.1 Introduction
7.2 System Advantage and Disadvantage
7.3 Future Implementation
7.4 Conclusion


**3. PROBLEMS ENCOUNTERED**

No problem encountered.


**4. SELF EVALUATION OF THE PROGRESS**

Progress smoothly as plan.


_____                    _____
Supervisor's signature                                        Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| Trimester, Year: MAY 2018 | Study week no.: WEEK 12 |
|---|---|
| Student Name & ID: TAN YUNG ANN 15ACB05762 | |
| Supervisor: MR. TEY CHEE CHIEH | |
| Project Title: ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Completed Writing

      3.7     Physical Design

            j) Admin Home Page

            k) Add More Admin Form Page (Create Table/ Add / Edit / Delete)

            l) List of Customer

            m) Customer Order List Page Interface

      3.8     Implementation Issues and challenges

      3.9     Timeline


Chapter 4: Methodology

      4.1     Type of Methodology


Chapter 5: Tools and Technologies

      5.1     Tools and Technologies


Chapter 6: Implementation and Testing

      6.1 Introduction

      6.2 System Design

      6.3 System Testing

      6.4 Conclusion

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Chapter 7: Conclusion and Discussion

      7.1      Introduction

      7.2      System Advantage and Disadvantage

      7.3      Future Implementation

      7.4      Conclusion

**2. WORK TO BE DONE**

Prepare to write User Manual and draw Poster.

**3. PROBLEMS ENCOUNTERED**

Involve lot of typing and drawing.

**4. SELF EVALUATION OF THE PROGRESS**

Progress slow due to a lot of work to carry out.

_____        _____
Supervisor's signature                          Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 13 |
| **Student Name & ID:** TAN YUNG ANN 15ACB05762 | |
| **Supervisor:** MR. TEY CHEE CHIEH | |
| **Project Title:** ATD ONLINE SYSTEMS | |

## 1. WORK DONE

[Please write the details of the work done in the last fortnight.]

Done prepare user manual and poster.

## 2. WORK TO BE DONE

Submit the FINAL YEAR PROJECT 2 full report.

Prepare Presentation Slide and Poster for FYP2.

## 3. PROBLEMS ENCOUNTERED

No problem encountered.

## 4. SELF EVALUATION OF THE PROGRESS

Progress smoothly as plan.

_____
Supervisor's signature

_____
Student's signature

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# FINAL YEAR PROJECT WEEKLY REPORT

*(Project II)*

| | |
|---|---|
| **Trimester, Year:** MAY 2018 | **Study week no.:** WEEK 14 |
| **Student Name & ID:**  TAN YUNG ANN 15ACB05762 | |
| **Supervisor:**  MR. TEY CHEE CHIEH | |
| **Project Title:**  ATD ONLINE SYSTEMS | |

**1. WORK DONE**

[Please write the details of the work done in the last fortnight.]

Submitted the FINAL YEAR PROJECT 2 full report.

Prepare Presentation Slide and Poster for FYP2.

**2. WORK TO BE DONE**

Completed FINAL YEAR PROJECT.

Submit the TWO (2) set of softcopies in CD/DVD to the FGO. (include poster in the softcopy)

**3. PROBLEMS ENCOUNTERED**

No problem encountered.

**4. SELF EVALUATION OF THE PROGRESS**

Progress smoothly as plan.

_____          _____
Supervisor's signature                                    Student's signature

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# APPENDIX C

Shop_cart.php (Shopping Cart Page)

```php
<?php
ob_start();
session_start();
include'admin/connection.php';
error_reporting(0);


if(isset($_GET['empty'])&&($_GET['empty'])==1)
{
    $empty="<span class='messageboxok2'>Your cart has been emptied</span>";
}
if(!isset($_SESSION['name'])&&($_SESSION['login'])!=1)
{
    header('Location:member_login.php');
}
else
{
     $mem_id=$_SESSION['member_id'];
}



//getting products info
        $id=$_GET['id'];
        $pr=$_GET['pr'];
                //update quantity
if(isset($_POST['submit_2']))
{
    //echo "hi";
    // unset($_SESSION['cart']['quantity']);
    $c_id=$_POST['c_id'];
```

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```php
$qty=$_POST['new_qty'];
unset($_SESSION['new_quantity'][$qty]);
$_SESSION['new_quantity'][]=array('c_id'=>$c_id,'quantity'=>$qty);


}
else
{
    //echo "no";
    $qty=1;
    $_SESSION['new_quantity'][]=array('c_id'=>$c_id,'quantity'=>$qty);
}



        $_SESSION['cart'][$id]=array('price'=>$pr);
//getting accessories info
        if(isset($_GET['acc_id']))
        {
            $acc_id=$_GET['acc_id'];
        }
        if(isset($_GET['acc_pr']))
        {
            $acc_price=$_GET['acc_pr'];
        }

if(isset($_POST['submit_2_acc']))
{
    //echo "hi";
    // unset($_SESSION['cart']['quantity']);
    $c_id_1=$_POST['c_id_1'];
$qty_1=$_POST['new_qty_1'];
unset($_SESSION['new_quantity_1'][$qty_1]);
$_SESSION['new_quantity_1'][]=array('c_id_1'=>$c_id_1,'quantity_1'=>$qty_1);
 //print_r($_SESSION['new_quantity_1']);
```

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```php
}
else
{
  //echo "no";
   $qty_1=1;
}
if(isset($_POST['submit_2_special']))
{
  //echo "hi";
 // unset($_SESSION['cart']['quantity']);
   $c_id_2=$_POST['c_id_2'];
 $qty_2=$_POST['new_qty_2'];
 unset($_SESSION['new_quantity_2'][$qty_2]);
 $_SESSION['new_quantity_2'][]=array('c_id_2'=>$c_id_2,'quantity_2'=>$qty_2);
 //print_r($_SESSION['new_quantity_2']);
}
else
{
  //echo "no";
   $qty_2=1;
}


     $_SESSION['access'][]=array('acc_id'=>$acc_id,'acc_price'=>$acc_price);
    // print_r($_SESSION['access']);
     foreach($_SESSION['access'] as $acc1=>$acc2)
     {
       if(!empty($acc2['acc_id']))
        {
       $acc1;
       $acc2['acc_id'];
        }
       }
```

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```php
    //getting point of sale  info
    if(isset($_GET['special_id']))
    {
        $special_id=$_GET['special_id'];
    }
    if(isset($_GET['special_pr']))
    {
        $special_price=$_GET['special_pr'];
    }



$_SESSION['special'][]=array('special_id'=>$special_id,'special_price'=>$special_
price);
    // print_r($_SESSION['special']);
    foreach($_SESSION['special'] as $special1=>$special2)
    {
        if(!empty($special2['special_id']))
        {
        $special1;
        $special2['special_id'];
        }
    }
$query_user="SELECT * FROM tbl_user WHERE user_id='$mem_id'";
$result_user=mysql_query($query_user)or die(mysql_error());
while($row_user=mysql_fetch_array($result_user))
{
    $name=$row_user['name'];
    $email=$row_user['email'];
    $contact=$row_user['contact'];
}
```

```php
    if(isset($_POST['submit']))
    {

        $remark=$_POST['remark'];
        $paytype=$_POST['paytype'];
        $shipping=$_POST['shipping'];
        $total=$_SESSION['final'];


        $insert_order="INSERT INTO tbl_order
 (user_id,remark,paytype,shipping,total,paydate)
            VALUES('$mem_id','$remark','$paytype','$shipping','$total',now())";
        mysql_query($insert_order)or die(mysql_error());
        $prev_id=  mysql_insert_id();




        foreach($_SESSION['cart'] as $cart=>$item)
        {
            $cart;
            $price=$item['price'];
            foreach($_SESSION['new_quantity'] as $new_1=>$new_2)
            {
                echo $new_1;
                if($new_2['c_id']==$cart)
                {
                echo $new_b=$new_2['quantity'];
                }
            }

            if(!empty($cart))
            {
```

```php
        //print_r($_SESSION['new_quantity']);


        $insert_detail="INSERT INTO tbl_order_detail
(order_id,com_id,price,quantity) VALUES('$prev_id','$cart','$price','$new_b')";
        mysql_query($insert_detail)or die(mysql_error());


        }


        //header('Location:index.php?msg=1');
     }


     //insert into tbl_access

     foreach($_SESSION['access'] as $acc1=>$acc2)
     {
       foreach($_SESSION['new_quantity_1'] as $new_acc_1=>$new_acc_2)
       {
         echo $new_acc_1;
         if($new_acc_2['c_id_1']==$acc1)
         {
         echo $new_acc_b=$new_acc_2['quantity_1'];
         }
       }

      if(!empty($acc2['acc_id']))
      {
      $acc1;
    $acc_id2=$acc2['acc_id'];
     $acc_price2=$acc2['acc_price'];
```

```php
        $insert_acc_detail="INSERT INTO tbl_order_access
(order_id,acc_id,acc_detail_price,acc_quantity)
VALUES('$prev_id','$acc_id2','$acc_price2','$new_acc_b')";
        mysql_query($insert_acc_detail)or die(mysql_error());
         }


        //insert into tbl_access


     foreach($_SESSION['special'] as $special1=>$special2)
     {
        foreach($_SESSION['new_quantity_2'] as
$new_special_1=>$new_special_2)
         {
           echo $new_special_1;
           if($new_special_2['c_id_2']==$special1)
           {
           echo $new_special_b=$new_special_2['quantity_2'];
           }
         }
        if(!empty($special2['special_id']))
         {
         $special1;
        $special_id2=$special2['special_id'];
         $special_price2=$special2['special_price'];




        $insert_special_detail="INSERT INTO tbl_order_special
(order_id,p_id,special_price,special_quantity)
VALUES('$prev_id','$special_id2','$special_price2','$new_special_b')";
        mysql_query($insert_special_detail)or die(mysql_error());
         }
         unset($_SESSION['cart']);
```

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```php
        unset($_SESSION['access']);
         unset($_SESSION['special']);
        // header('Location:index.php?msg=1');
        ?>
<script type='text/javascript'>
   alert('Your order has been submitted successfully.');
   </script>
<?php
header('Location:member_account.php?order=1');
      }
    }
   }
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>ATD | Shopping Cart</title>


<!-- Start CSS Link -->
<link rel="stylesheet" href="gl/css/bootstrap.css" type="text/css" media="all" />
<link rel="stylesheet" href="gl/css/main.css" type="text/css" media="all" />
<!-- END CSS Link -->


<link rel="stylesheet"  type="text/css" href="style.css"/>
</head>


<body>
<div class="header">
  <div class="top-menu">
    <div>
      <?php
```

```
        include 'social.php';
            ?>
    <img src="product-01.jpg" width="100%"height="209"  style="padding-top:
10px;"> </div>
  </div>
</div>
<div class="body-container">
  <div class="menu">
   <?php
        include'menu.php';
          ?>
  </div>
  <!--body starts -->
  <div class="content">
   <?php
          if(isset($empty))
          {
             echo $empty;
          }
          ?>
   <h3>Products</h3>
   <table border="1" width='100%' style='border-collapse: collapse;margin-top:
10px;'>
     <tr>
      <th width="16%" th height="40" align="left" bgcolor="#00CCCC"><div
align="center">Product Image</div></th>
      <th width="16%" th height="40" align="left" bgcolor="#00CCCC"><div
align="center">Product Name</div></th>
      <!-- <th width="25%" th align="left" bgcolor="#00CCCC"><div
align="center">Product Detail</div></th> -->
      <th width="12%"th bgcolor="#00CCCC"><div align="center">Product
Quantity</div></th>
```

```php
    <th width="9%"th bgcolor="#00CCCC"><div align="center">Product
Price</div></th>
    <th width="9%"th bgcolor="#00CCCC"><div align="center">Product Total
Price</div></th>
    <th width="1%" bgcolor="#00CCCC"><div align="center"></div></th>
    <?php
            foreach($_SESSION['cart'] as $cart=>$item)
            {
              ?>
    <?php
             $item_id=$cart;
             $item['price'];
             $item['quantity'];
             $query_products="SELECT
tbl_products_name.*,tbl_products_make.*,tbl_products_type.* FROM
              tbl_products_name,tbl_products_make,tbl_products_type
WHERE tbl_products_name.p_id=tbl_products_type.p_id AND
              tbl_products_name.m_id=tbl_products_make.m_id AND
tbl_products_name.n_id='$item_id'";
             $result_products=mysql_query($query_products)or
die(mysql_error());
             while($row_products=mysql_fetch_array($result_products))
             {
               ?>
    <tr>
    <td width="16%"><div align="center"> <img src="admin/uploads/<?php echo
$row_products['p_gallery'];?>" width="150" height="100"> </div></td>
    <td><div align="center"><b><?php echo
$row_products['p_name'];?></b></div></td>
    <!--<td ><div align="justify"><?php echo $row_products['p_detail'];?>
</div></td> -->
    <td><div align="center">
      <form action="<?php echo $_SERVER['PHP_SELF'];?>" method="post">
```

```php
        <input type="hidden" name="c_id" value="<?php echo $cart; ?>" />
        </input>
        <?php
                          foreach($_SESSION['new_quantity'] as
$new_quantity=>$nq)
                          {
                             $new_quantity;
                             $nq['c_id'];
                             $nq['quantity'];


        if($cart==$nq['c_id'])


        {


                $n_quan=$nq['quantity'];




        }
                          }

                          ?>
        <input name="new_qty" type="text" value="<?php echo $n_quan;?>"
size="3" />
        </input>
        <input type="submit" name="submit_2" value="  +  " />
        </input>
      </form>
     </div></td>
    <td width='9%'><div align="center">RM <?php echo
$row_products['p_price'];?> </div></td>
    <td width='9%'><div align="center">RM
```

```php
                <?php

                echo $total_price=($row_products['p_price'])*$n_quan;


                ?>
     </div></td>
    <td><div align="center">
      <!-- <a href="remove_com.php?id=<?php echo $cart;?>">Remove<?php
echo $cart;?></a>-->
      <a href="remove_com.php?id=<?php echo $cart;?>"><img
src="admin/a_cust/icon/remove2.png" width="20" height="20"></img></a>
</div></td>
   </tr>
   <?php

                $total+=$row_products['p_price'];
                $total_price2+=$total_price;
              }
              ?>
   <?php

         }


         ?>
   <tr>
    <td height="25" colspan='2'></td>
    <td height="25" colspan='5' bgcolor="#9d7ff2"><h4 align="center">Product
Total :
       <?php $grand=0; echo
$grand+=$total_price2;$_SESSION['grand']=$grand;?>
     </h4></td>
   </tr>
  </table>
  <!-- accessory info starts -->
  <h3>Accessories</h3>
```

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```
    <table border="1" width='100%' style='border-collapse: collapse;margin-top:
10px;'>
    <tr>
      <th width="16%" height="40" bgcolor="#00CCCC"><div
align="center">Accessory Image</div></th>
      <th width="16%" height="40" bgcolor="#00CCCC"><div
align="center">Accessory Name</div></th>
      <!--<th width="25%" bgcolor="#00CCCC">Accessory Detail</th> -->
      <th width="12%" bgcolor="#00CCCC">Accessory Quantity</th>
      <th width="9%" bgcolor="#00CCCC">Accessory Price</th>
      <th width="9%" bgcolor="#00CCCC">Accessory Total Price</th>
      <th width="1%" bgcolor="#00CCCC"></th>
    </tr>
    <?php
               foreach($_SESSION['access'] as $access=>$acc_item)
               {
                 if(!empty($acc_item['acc_id']))
                 {
                  $access;
                ?>
    <tr>
      <td><div align="center">
        <?php

                   $access_id=$acc_item['acc_id'];
                   $query_access="SELECT * FROM tbl_access WHERE
acc_id='$access_id'";
                   $result_access=mysql_query($query_access)or
die(mysql_error());
                   while($row_access=mysql_fetch_array($result_access))
                   {
                     $acc_detail=$row_access['acc_detail'];
                     $acc_gallery=$row_access['acc_gallery'];
```

```php
                        $acc_name=$row_access['acc_name'];
                    }


                ?>
    <img src="admin/accessory/<?php echo $acc_gallery; ?>" width="150"
height="100"></img> </div></td>
    <td><div align="center"><b><?php echo $acc_name;?></b></div></td>
    <!--<td><div align="justify"><?php echo $acc_detail;?></div></td> -->
    <td width='12%'><div align="center">
      <form action="<?php echo $_SERVER['PHP_SELF'];?>"
method="POST">
        <input type="hidden" name="c_id_1" value="<?php echo $access; ?>">
        </input>
        <?php
                        foreach($_SESSION['new_quantity_1'] as
$new_quantity_1=>$nq_1)
                        {
                            $new_quantity_1;
                            $nq_1['c_id_1'];
                            $nq_1['quantity_1'];

                            if($access==$nq_1['c_id_1'])
                            {
                                $n_quan_1=$nq_1['quantity_1'];


                            }


                        }


                        ?>
      <input name="new_qty_1" type="text" value="<?php echo $n_quan_1;?>"
size="3">
        </input>
```

```
            <input type="submit" name="submit_2_acc"value="  +  " />
            </input>
          </form>
        </div></td>
      <td><div align="center">RM <?php echo
$acc_item['acc_price'];?></div></td>
      <td><div align="center">RM <?php echo
$acc_item['acc_price']*$n_quan_1;?></div></td>
      <td><div align="center">
        <!--<a href="remove_acc.php?id=<?php echo $access;?>">Remove<?php
echo $access;?></a>-->
        <a href="remove_acc.php?id=<?php echo $access;?>"><img
src="admin/a_cust/icon/remove2.png" width="20" height="20"></img></a>
</div></td>
    </tr>
    <?php

                }


                $total2+=$acc_item['acc_price'];
                $acc_total3+=$acc_total2=$acc_item['acc_price']*$n_quan_1;
              }
              ?>
    <tr>
     <td height="25" colspan='2'></td>
     <td height="25" colspan='5' bgcolor="#9d7ff2"><h4
align="center">Accessories Total :
       <?php $grand2=0; echo
$grand2+=$acc_total3;$_SESSION['acc_total']=$grand2;?>
      </h4></td>
    </tr>
   </table>
   <p>
    <!-- access info ends-->
```

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```
  <br />
</p>
<!-- POS info starts -->
<h3>Point of Sales</h3>
<table border="1" width='100%' style='border-collapse: collapse;margin-top:
10px;'>
  <tr>
    <th width="16%" height="40" bgcolor="#00CCCC"><div
align="center">POS Image</div></th>
    <th width="16%" height="40" bgcolor="#00CCCC"><div
align="center">POS Name</div></th>
    <!--<th width="25%" bgcolor="#00CCCC">POS Detail</th>-->
    <th width="12%" bgcolor="#00CCCC">POS Quantity</th>
    <th width="9%" bgcolor="#00CCCC">POS Price</th>
    <th width="9%" bgcolor="#00CCCC">POS Total Price</th>
    <th width="1%" bgcolor="#00CCCC"></th>
  </tr>
  <?php
            foreach($_SESSION['special'] as $special=>$special_item)
            {
               if(!empty($special_item['special_id']))
               {
                $special;
              ?>
  <tr>
    <td><div align="center">
      <?php

                   $special_id=$special_item['special_id'];
                   $query_special="SELECT * FROM tbl_pos WHERE
pos_id='$special_id'";
```

```php
                              $result_special=mysql_query($query_special)or
die(mysql_error());
                              while($row_special=mysql_fetch_array($result_special))
                              {
                                $special_detail=$row_special['pos_detail'];
                                $special_gallery=$row_special['pos_gallery'];
                                $special_name=$row_special['pos_name'];
                              }


                              ?>
        <img src="admin/a_cust/pos/<?php echo $special_gallery; ?>" width="150"
height="100"></img> </div></td>
      <td><div align="center"><b><?php echo $special_name;?></b></div></td>
      <!--    <td><div align="justify"><?php echo $special_detail;?></div></td> --
>
      <td width='12%'><div align="center">
        <form action="<?php echo $_SERVER['PHP_SELF'];?>"
method="POST">
          <input type="hidden" name="c_id_2" value="<?php echo $special; ?>">
          </input>
          <?php
                              foreach($_SESSION['new_quantity_2'] as
$new_quantity_2=>$nq_2)
                              {
                                $new_quantity_2;
                                $nq_2['c_id_2'];
                                $nq_2['quantity_2'];

                                if($special==$nq_2['c_id_2'])
                                {
                                  $n_quan_2=$nq_2['quantity_2'];

                                }
```

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```
                          }


                          ?>
        <input type="text" name="new_qty_2"  size="3" value="<?php echo
$n_quan_2;?>">
        </input>
        <input type="submit" name="submit_2_special" value="  +  ">
        </input>
      </form>
    </div></td>
    <td><div align="center">RM <?php echo
$special_item['special_price'];?></div></td>
    <td><div align="center">RM <?php echo
$special_item['special_price']*$n_quan_2;?></div></td>
    <td><div align="center">
      <!--<a href="remove_special.php?id=<?php echo
$special;?>">Remove<?php echo $special;?></a>-->
      <a href="remove_special.php?id=<?php echo $special;?>"><img
src="admin/a_cust/icon/remove2.png" width="20" height="20"></img></a>
</div></td>
    </tr>
    <?php
            }


            $total3+=$special_item['special_price'];
            $special_total4+=$special_item['special_price']*$n_quan_2;
          }
          ?>
    <tr>
    <td height="25" colspan='2'></td>
    <td height="25" colspan='5' bgcolor="#9d7ff2"><h4 align="center">Point Of
Sales Total :
```

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```php
        <?php $grand3=0; echo
$grand3+=$special_total4;$_SESSION['special_total']=$grand3;?>
      </h4></td>
    </tr>
  </table>
  <p>
   <!-- POS info ends-->


   <br/>
   <br/>
   <br/>
  <table width="100%" height="62" border="1" style='border-collapse: collapse;'>
   <tr bgcolor="#00FFCC">
    <td><span style="padding-left: 600px;font-weight: bold;">
     <?php

$final_total=$_SESSION['grand']+$_SESSION['acc_total']+$_SESSION['special_total'];
                     echo '<span style="font-size:25px;padding-top:20px;">Grand
Total RM '.$final_total.'.00</span>';
                     $_SESSION['final']=$final_total;
                     ?>
     </span></td>
    <td><div align="center"> <a href='clear.php?com=<?php echo
$item_id;?>&amp;acc=<?php echo $access_id;?>'>( Clear Cart )</a></div></td>
    </tr>
  </table>
  <br />
  <br />
  <h1>NEXT STEP :</h1>
  <div align="center">
   <table class= "mytable" width="680" border="1" style='border-collapse:
collapse;'>
```

```
    <tr>
      <td width="718" height="86" bgcolor="#FFFFCC"><blockquote>
        <blockquote>
         <blockquote>
           <h3 align="center">Submit Order</h3>
           <form action="#" name="joinform" id="joinform" method="POST"
onSubmit="return JoinForm(this)">
             <div align="center">
              <table width="35%" border="1" style='border-collapse: collapse;'>
               <tr>
                 <td><div align="left">
                   <table border="0" class="tab2">
                    <tr>
                      <td>Name * </td>
                      <td>:</td>
                      <td><input name="name" type="text" value="<?php echo
$name;?>" readonly /></td>
                    </tr>
                    <tr>
                      <td>Email * </td>
                      <td>:</td>
                      <td><input name="name" type="text" value="<?php echo
$email;?>" readonly /></td>
                    </tr>
                    <tr>
                      <td>Contact *</td>
                      <td>:</td>
                      <td><input name="contact" type="text" value="<?php echo
$contact?>" readonly /></td>
                    </tr>
                    <tr>
                      <td>Remark By Customer</td>
                      <td> :</td>
```

```html
        <td><textarea cols="30" rows="5"
name='remark'></textarea></td>
                </tr>
                <tr>
                 <td>Payment Type *</td>
                 <td>:</td>
                 <td><select name="paytype">
                    <!--<option value="1">Online Banking</option>-->
                    <option value="2">Online Banking Payment - Direct
Transfer, Instant Transfer</option>
                    <option value="3">Manual Banking Payment - ATM
Transfer and Cash Deposit Machine</option>
                  </select></td>
                </tr>
                <tr>
                 <td>Shipping Address</td>
                 <td>:</td>
                 <td><textarea cols="30" rows="5"
name="shipping"></textarea></td>
                </tr>
                <tr>
                 <td colspan=""  style="padding-left:150px;"><input
type="submit" name="submit" value="  Submit  " class="confirm_btn"
onclick='return confirm("Are you confirm to submit your order now?");' />

                    <!--onclick="return confirm('Do you really want to proceed
to checkout?');"href="checkout.php" style="padding-left:20px;"--></td>
                </tr>
              </table>
            </div></td>
          </tr>
        </table>
      </div>
```

```
                </form>
              </blockquote>
            </blockquote>
          </blockquote></td>
      </tr>
    </table>
    <br />
    <br />
    <br />
   </div>
  </div>


  <!--body ends -->
 </div>
<!--<div class="footer">
     <?php
    /* include'footer.php';*/
     ?>
   </div>-->
</body>
</html>
<SCRIPT LANGUAGE="JavaScript">
function JoinForm(joinform){
        if (joinform.email.value==''){
                joinform.email.focus();
                alert('Fill in the field -- Email!');
                return false;
                }

        if (!joinform.email.value.match( /^([a-zA-Z0-9_\.\-])+\@(([a-zA-Z0-9\-
])+\.)+([a-zA-Z0-9]{2,4})+$/)) {
     joinform.email.focus();
     alert("Email Address Format Invalid!");
```

```
        return false;
    }

    if (joinform.passwd.value==''){
            joinform.passwd.focus();

            alert('Fill in the field -- Password!');

            return false;
            }

    if (joinform.passwd_confirm.value==''){
            joinform.passwd_confirm.focus();

            alert('Fill in the field -- Password Confirm!');

            return false;
            }

    if (joinform.passwd.value!=joinform.passwd_confirm.value){
            alert('Password Not Match!');

            return false;
            }

    if (joinform.name.value==''){
            joinform.name.focus();

            alert('Fill in the field -- Name!');

            return false;
            }

    if (joinform.contact.value==''){
            joinform.contact.focus();

            alert('Fill in the field -- Phone / Mobile Number!');

            return false;
            }

if (joinform.security_code.value==''){
```

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```
                joinform.security_code.focus();

                alert('Fill in the field -- Security Code!');

                return false;

                }


        return true;
}
</SCRIPT>
```

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view_order_Cus.php (Admin View Order Page)

```php
<?php
session_start();
if(!isset($_SESSION['level']))
{
   header('Location:../index.php?msg=No');
   exit();
}
else
{
if($_SESSION['level']==1)
   {
     $user2="Admin";
   }
   else
   {
     $user2="Employee";
   }
$welcome="Welcome";
}
include'connection.php';
//select photo


$query_photo="SELECT * FROM tbl_user_level WHERE
id={$_SESSION['user_id']}";
$result_photo=mysql_query($query_photo)or die(mysql_error());
while($row_photo=mysql_fetch_array($result_photo))
{
   $gallery=$row_photo['gallery'];
   $name=$row_photo['name'];
   $type=$row_photo['type'];
}
```

```php
if(isset($_GET['id']))

{

$id=$_GET['id'];

}

$query_order="SELECT tbl_order_detail.* FROM tbl_order_detail WHERE

tbl_order_detail.order_id='$id'";

$result_order=mysql_query($query_order)or die(mysql_error());


$query_access="SELECT tbl_order_access.*,tbl_access.* FROM

tbl_order_access,tbl_access WHERE tbl_order_access.order_id='$id' AND

tbl_order_access.acc_id=tbl_access.acc_id";

$result_access=mysql_query($query_access)or die(mysql_error());


$query_proof="SELECT * FROM tbl_proof WHERE order_id='$id'";

$result_proof=mysql_query($query_proof)or die(mysql_error());

$row_proof=mysql_fetch_array($result_proof);

if(isset($_POST['status']))

{

   $status=$_POST['status'];

   $update_proof="UPDATE tbl_order SET payment_status='$status' WHERE

order_id='$id'";

   mysql_query($update_proof)or die(mysql_error());

   header('Location:comOrder.php?edit=success');

}

if(isset($_POST['del_status']))

{

   $del_status=$_POST['del_status'];

   $update_proof_1="UPDATE tbl_order SET delivery_status='$del_status'

WHERE order_id='$id'";

   mysql_query($update_proof_1)or die(mysql_error());

   header('Location:comOrder.php?edit=success');

}

?>
```

```html
<!DOCTYPE html>
<html lang=en>
<head>
<title>ATD SALES &amp; SERVICES</title>
<meta http-equiv=Content-Type content="text/html; charset=utf-8" />
<link rel="stylesheet" href="js_tablesorter/themes/blue/style.css" type="text/css"
media="print, projection, screen" />
<link rel="stylesheet" href="../style.css" type="text/css"  />
<script type="text/javascript" src="js_tablesorter/jquery-latest.js"></script>
<script type="text/javascript" src="js_tablesorter/jquery.tablesorter.js"></script>
<script type="text/javascript">
        $(document).ready(function()
  {
     $("#myTable").tablesorter({widthFixed: true, widgets: ['zebra']});
  }
);


</script>
<script>
function myFunction() {
   window.print();
}
</script>
</head>
<body>
<div>
<div class="left">
  <table>
   <tr>
     <td width="226" height="480"><div class='circle' style='background-image:
url("users/<?php echo $gallery;?>");'> </div>

      <!--<img src='yun.jpg' width='200' height='200'>--></td>
```

```
      </tr>
  </table>
  <table width="168%" border="0" cellpadding="0" cellspacing="0">
    <tr>
      <td><ul class="basictab">
        <p><a href="index.php" class='menu-top'><img
src="a_cust/icon/back_icon3.png" width="30" height="20"><strong> Back to
Home </strong></a></p>
      </ul></td>
    </tr>
    <tr>
      <td><blockquote>
        <p><strong> Manage by ADMIN </strong> </p>
      </blockquote>
      <ul>
        <li><a href="manage_user.php" class="menu-top">Manage User</a></li>
        <li><a href="manage_customer.php" class="menu-top">Manage
Customer</a></li>
        <li><a href="comName.php" class="menu-top">Manage Products</a> </li>
        <li><a href="accessory.php" class='menu-top'>Manage Accessory</a>
        <li><a href="comOrder.php" class='menu-top'>Manage Orders</a></li>
        <li><a href="manage_sales.php" class="menu-top">Manage Sales
Report</a></li>
        <li><a href="contact_us.php" class='menu-top'>Manage Contact</a></li>
        <li><a href="manage_feedback.php" class="menu-top">Manage
Feedback</a></li>
        </a> <br>
        <strong>Manage INTERFACE </strong>
        </li>
        <li><a href="list_content.php" class='menu-top'>Manage Conten</a>t </li>
        <li><a href="banner_display.php" class="menu-top">Manage
Banner</a></li>
        <li><a href="best_seller.php" class='menu-top'>Manage Best Seller</a></li>
```

```
        </ul>
        <blockquote>
         <p><br>
        </blockquote></td>
    </tr>
    <tr>
     <td> </td>
    </tr>
  </table>
</div>
<div class="right">
  <div class="top"> <br>
    <br>
    <br>
    <br>
    <?php
        if(isset($welcome)&&($welcome!=NULL))
        {
            echo '<span
class="welcome">'.$welcome.'  '.$_SESSION['user'].'
['.$user2.']</span>';
            echo '    <span
class="seperator">|</span> ';
            echo '<a class="logout" href="admin_logout.php">Logout</a>';
        }
        ?>
    <span class="admin-font"> ATD SALES ADMIN SITE</span>
    <hr>
  </div>
  <div class="middle">
    <?php
        if(isset($_GET['msg'])&&($_GET['msg']=='success'))
        {
```

```php
        echo "<span class='messageboxok2'>Successfully Updated Customer
Order</span>";
    }
    ?>
  <button onclick="myFunction()">Print this page</button>
  <p>
    <?php
ob_start();
session_start();
error_reporting(0);
include'admin/connection.php';
if(isset($_GET['orderid']))
{
$id=$_GET['orderid'];
}
if(!isset($_SESSION['name'])&&($_SESSION['login'])!=1)
{
   header('Location:member_login.php');
}
else
{
   $user_id=$_SESSION['member_id'];
}



mysql_select_db($database_bumi_conn, $bumi_conn);
$query_RecOrder = "SELECT * FROM tbl_order, tbl_user WHERE
tbl_order.user_id = tbl_user.user_id AND tbl_order.order_id = '$id' AND
tbl_user.user_id = '$user_id' ORDER BY tbl_order.order_id DESC";
$RecOrder = mysql_query($query_RecOrder) or die(mysql_error());
$row_RecOrder = mysql_fetch_assoc($RecOrder);
$totalRows_RecOrder = mysql_num_rows($RecOrder);
```

```php
?>
    <?php
if(isset($_POST['submitted']))
{
   $order=$_POST['oid'];
   $trans=$_POST['trans'];
   $date=$_POST['date'];
   $time=$_POST['time'];
   $amt=$_POST['amt'];
   $file_name=$_FILES['files']['name'];
   $path="admin/proof/";
   move_uploaded_file($_FILES['files']['tmp_name'],
$path.$_FILES['files']['name']);
   $insert_proof="INSERT INTO tbl_proof
(order_id,trans_id,file_name,date,time,amt)
VALUES('$order','$trans','$file_name','$date','$time','$amt')";
   mysql_query($insert_proof)or die(mysql_error());
   $msg="<span class='messageboxok2'>Your proof of payment has been uploaded
successfully!<span>";
}
?>
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
    <?php
        if(isset($msg))
        {
           echo $msg;
        }
        ?>
    <?php if ($totalRows_RecOrder > 0) { // Show if recordset not empty ?>
    <?php
```

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```php
$colname_RecOrderDetail = $row_RecOrder['order_id'];


mysql_select_db($database_bumi_conn, $bumi_conn);
$query_RecOrderDetail = "SELECT * FROM tbl_order_detail, tbl_products_name
WHERE tbl_order_detail.order_id = '$colname_RecOrderDetail'
    AND tbl_order_detail.com_id = tbl_products_name.n_id";
$RecOrderDetail = mysql_query($query_RecOrderDetail) or die(mysql_error());
$row_RecOrderDetail = mysql_fetch_assoc($RecOrderDetail);
$totalRows_RecOrderDetail = mysql_num_rows($RecOrderDetail);
?>
  </p>
  <hr />
  <h3><strong> Customer Details :</strong></h3>
  <table width="50%"   border="0" align="center" cellpadding="0"
cellspacing="1" class="tablesorter">
    <thead>
     <tr>
      <th width="50">Order ID </th>
      <th width="133">Email</th>
      <th width="133">Payment Type </th>
      <th width="80">Payment Date </th>
      <th width="80">Total Amount </th>
      <th width="75">Payment Status </th>
      <!-- <th width="136">Sort Order</th>-->
     </tr>
    </thead>
    <tbody>
     <tr>
      <td><?php echo str_pad($row_RecOrder['order_id'], 4, '0',
STR_PAD_LEFT); ?></td>
      <td><?php
```

```php
$colname_RecUser = $row_RecOrder['user_id'];




$query_RecUser = "SELECT * FROM tbl_user WHERE user_id
='$colname_RecUser' ";
$RecUser = mysql_query($query_RecUser) or die(mysql_error());
$row_RecUser = mysql_fetch_assoc($RecUser);
$totalRows_RecUser = mysql_num_rows(RecUser);


                                            echo $row_RecUser['email'];
                                            ?></td>
    <td><?php if($row_RecOrder['paytype'] == 1) { ?>
     Online Payment
     <?php if($row_RecOrder['channel'] != NULL) { echo "-
".$row_RecOrder['channel']; } ?>
     <?php } elseif($row_RecOrder['paytype'] == 2) { ?>
     Direct Bank Transfering
     <?php } elseif($row_RecOrder['paytype'] == 3) {  ?>
     PayPal
     <?php } ?></td>
    <td><?php if($row_RecOrder['paydate'] != NULL) { ?>
     <?php echo $row_RecOrder['paydate']; ?>
     <?php } else { ?>
     --
     <?php } ?></td>
    <td>RM <?php echo number_format($row_RecOrder['total'],2); ?></td>
    <td><?php
            if($row_RecOrder['payment_status'] == "0") {  ?>
     Not Paid
     <?php }
            elseif($row_RecOrder['payment_status'] == "1") { ?>
     <strong style="color:#CC0000">Paid</strong>
```

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```
    <?php }
                ?></td>
   </tr>
  </tbody>
 </table>
 <h3><strong>Payment and Delivery Details :</strong></h3>
 <table border="0" valign="center"  align="center" cellpadding="0"
cellspacing="1" class="tablesorter">
   <thead>
    <tr>
     <th colspan="4">Status</th>
     <!-- <th width="136">Sort Order</th>-->
    </tr>
   </thead>
   <tbody>
   </tbody>
   <tr>
    <td width="104" valign="center"><strong>Payment Status</strong></td>
    <td width="206"><form action="#" method="post">
      <?php
            if($row_RecOrder['payment_status'] == "0") {  ?>
      Not Paid
      <?php }
            elseif($row_RecOrder['payment_status'] == "1") { ?>
      <strong style="color:#CC0000">Paid</strong>
      <?php }
            ?>
      <br/>
     </form>
     <br/></td>
    <td width="40%"><form action="#" method="post">
      <div align="center">
        <select name="status">
```

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```php
        <?php
    $pay_status=$row_access['payment_status'];
    if($pay_status==0)
    {
      ?>
        <option value="0" seleted="seleted">Not Paid</option>
        <option value="1">Paid</option>
        <?php
    }
    else
    {
      ?>
        <option value="1" seleted="seleted">Paid</option>
        <option value="0">Not paid</option>
        <?php
    }

    ?>
        </select>
        |
        <input type="submit" name="submit2" value="change payment status" />
        <br/>
      </div>
    </form></td>
  </tr>
  <tbody>
   <tr>
    <td><strong>Delivery Status</strong></td>
    <td><?php
                if($row_RecOrder['delivery_status'] == "0") {  ?>
      Not Delivered
      <?php }
                elseif($row_RecOrder['delivery_status'] == "1") { ?>
```

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```
        <strong style="color:#CC0000">Delivered</strong>
      <?php }
                ?></td>
    <td><form action="#" method="post">
      <div align="center">
       <select name="del_status">
        <?php
  $de_status=$row_access['delivery_status'];
  if($de_status==0)
  {
     ?>
        <option value="0" seleted="seleted">Not Delivered</option>
        <option value="1">Delivered</option>
        <?php
  }
  else
  {
     ?>
        <option value="1" seleted="seleted">Delivered</option>
        <option value="0">Not Delivered</option>
        <?php
  }

  ?>
        </select>
        |
        <input type="submit" name="submit" value="change delivery status" />
        <br/>
      </div>
    </form></td>
  </tr>
 </tbody>
</table>
```

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```
    <h3><strong>Order Details :</strong></h3>
    <table width="50%"   border="0" align="center" cellpadding="0"
cellspacing="1" class="tablesorter">
    </table>
    <table width="100%" border="0">
      <tr>
        <td><table width="100%" border="0" align="center"  cellpadding="4"
cellspacing="1" bgcolor="#CCCCCC">
          <tr>
            <th width="20%" align="center" bgcolor="#DACFD2" >Product Image
</th>
            <th width="277" align="center" bgcolor="#DACFD2" >Product
Name</th>
            <th width="8%" align="center" bgcolor="#DACFD2" >Quantity</th>
            <th width="15%" align="center" bgcolor="#DACFD2" >Unit Price</th>
            <th width="15%" align="center" bgcolor="#DACFD2" >Total Price</th>
          </tr>
          <?php do { ?>
          <!--<tr>
                         <td colspan="7" align="center" valign="top"
bgcolor="#FFFFFF" style="padding:2px"><hr /></td>
                       </tr>-->
          <tr>
            <td align="center" valign="top" bgcolor="#FFFFFF"
style="padding:10px"><?php
                         if(!isset($row_RecOrderDetail['p_gallery']))
                         {
                           echo 'No product chosen';
                         }else
                         {
                         ?>
            <img src="uploads/<?php echo $row_RecOrderDetail['p_gallery'];?>"
width="150" height="100"></img>
```

```php
                <?php
                        }
                        ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"
style="padding:10px"><span style="color: "><?php echo
ucfirst($row_RecOrderDetail['p_name']); ?></span>
            <?php if($row_RecOrderDetail['colour'] != 'none' &&
($row_RecOrderDetail['colour'] != NULL)) {  ?>
            -- <?php echo $row_RecOrderDetail['colour']; ?>
            <?php } ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF" ><?php echo
$row_RecOrderDetail['quantity']; ?></td>
            <td align="center" valign="top" bgcolor="#FFFFFF" >RM <?php echo
number_format($row_RecOrderDetail['price'],2); ?></td>
            <td align="center" valign="top" bgcolor="#FFFFFF" >RM <?php echo
$row_RecOrderDetail['price']*$row_RecOrderDetail['quantity']; ?></td>
        </tr>
        <tr>
         <td colspan="5" bgcolor="#FFFFFF"></td>
        </tr>
        <?php } while ($row_RecOrderDetail =
mysql_fetch_assoc($RecOrderDetail)); ?>
        <?php
                            $colname_RecOrderDetailAddOn =
$row_RecOrder['order_id'];


$query_RecOrderDetailAddOn = "SELECT * FROM tbl_order_access WHERE
order_id = '$colname_RecOrderDetailAddOn'";
$RecOrderDetailAddOn = mysql_query($query_RecOrderDetailAddOn) or
die(mysql_error());
$row_RecOrderDetailAddOn = mysql_fetch_assoc($RecOrderDetailAddOn);
$totalRows_RecOrderDetailAddOn = mysql_num_rows($RecOrderDetailAddOn);
?>
```

```php
        <?php if($totalRows_RecOrderDetailAddOn > 0) { ?>
        <tr>
         <th  align="center" valign="top" bgcolor="#DACFD2"
><strong>Accessories Image</strong></th>
         <th align="center" valign="top" bgcolor="#DACFD2"
><strong>Accessories Name</strong></th>
         <th align="center" valign="top" bgcolor="#DACFD2" ><strong>Quantity
</strong></th>
         <th align="center" valign="top" bgcolor="#DACFD2" ><strong>Unit
Price </strong></th>
         <th align="center" valign="top" bgcolor="#DACFD2" ><strong>Total
Price </strong></th>
        </tr>
        <?php do { ?>
         <tr>
          <td align="center" valign="top" bgcolor="#FFFFFF"><?php


$colname_RecAddOn=$row_RecOrderDetailAddOn['acc_id'];
$query_RecAddOn = "SELECT * FROM tbl_access WHERE acc_id =
'$colname_RecAddOn'";
$RecAddOn = mysql_query($query_RecAddOn) or die(mysql_error());
$row_RecAddOn = mysql_fetch_assoc($RecAddOn);
$totalRows_RecAddOn = mysql_num_rows($RecAddOn);
 $row_RecAddOn['acc_gallery'];
 $add_name2=$row_RecAddOn['acc_name'];


                        if(!isset( $row_RecAddOn['acc_gallery']))
                        {
                           echo 'No product chosen';
                        }else
                        {
                        ?>
```

```
                    <img src="accessory/<?php echo $row_RecAddOn['acc_gallery'];?>"
width="150" height="100"></img>
            <?php
                            }
                            ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"><?php



            echo ucfirst($add_name2);
                                                ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"><?php



                echo $row_RecOrderDetailAddOn['acc_quantity'];

                            ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"> RM <?php echo
number_format($row_RecOrderDetailAddOn['acc_detail_price'],2);?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"> RM <?php echo
$row_RecOrderDetailAddOn['acc_detail_price']*$row_RecOrderDetailAddOn['acc
_quantity'];?></td>
      </tr>
      <tr>
       <td colspan="5" bgcolor="#FFFFFF"></td>
      </tr>
      <?php } while ($row_RecOrderDetailAddOn =
mysql_fetch_assoc($RecOrderDetailAddOn));?>
      <?php } // end if($totalRows_RecOrderDetailAddOn > 0) { ?>


      <!--  <tr>
```

```
                    <td colspan="5" align="right"  valign="top"
bgcolor="#FFFFFF" ><strong>Add Ons - </strong> </td>
                        <td align="center" valign="top" bgcolor="#FFFFFF"
> </td>
                    </tr>-->
      <!-- display point of sales starts -->


      <?php
                            $colname_RecOrderDetailSpecial =
$row_RecOrder['order_id'];


$query_RecOrderDetailSpecial = "SELECT * FROM tbl_order_special WHERE
order_id = '$colname_RecOrderDetailSpecial'";
$RecOrderDetailSpecial = mysql_query($query_RecOrderDetailSpecial) or
die(mysql_error());
$row_RecOrderDetailSpecial = mysql_fetch_assoc($RecOrderDetailSpecial);
$totalRows_RecOrderDetailSpecial = mysql_num_rows($RecOrderDetailSpecial);
?>
      <?php if($totalRows_RecOrderDetailSpecial > 0) { ?>
      <tr>
        <th  align="center" valign="top" bgcolor="#DACFD2" ><strong>POS
Image</strong></th>
        <th align="center" valign="top" bgcolor="#DACFD2" ><strong>POS
Name</strong></th>
        <th align="center" valign="top" bgcolor="#DACFD2"
><strong>Quantity</strong></th>
        <th align="center" valign="top" bgcolor="#DACFD2" ><strong>Unit
price </strong></th>
        <th align="center" valign="top" bgcolor="#DACFD2" ><strong>Total
Price</strong></th>
      </tr>
      <?php  do {  ?>
        <tr>
```

```php
<td align="center" valign="top" bgcolor="#FFFFFF"><?php
        $colname_RecSpecial=$row_RecOrderDetailSpecial['p_id'];
$query_RecSpecial = "SELECT * FROM tbl_pos WHERE pos_id =
'$colname_RecSpecial'";
$RecSpecial = mysql_query($query_RecSpecial) or die(mysql_error());
$row_RecSpecial = mysql_fetch_assoc($RecSpecial);
$totalRows_RecSpecial = mysql_num_rows($RecSpecial);
$special_name=$row_RecSpecial['pos_name'];


                if(!isset( $row_RecSpecial['pos_gallery']))
                    {
                        echo 'No product chosen';
                    }else
                    {
                    ?>
        <img src="a_cust/pos/<?php echo $row_RecSpecial['pos_gallery'];?>"
width="150" height="100"></img>
        <?php
                    }
                    ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"><?php



        echo ucfirst($special_name);

                                            ?></td>
        <td align="center" valign="top" bgcolor="#FFFFFF"><?php




                    echo $row_RecOrderDetailSpecial['special_quantity'];

                    ?></td>
```

```
          <td align="center" valign="top" bgcolor="#FFFFFF"> RM <?php echo
number_format($row_RecOrderDetailSpecial['special_price'],2);?></td>
          <td align="center" valign="top" bgcolor="#FFFFFF"> RM <?php echo
$row_RecOrderDetailSpecial['special_price']*$row_RecOrderDetailSpecial['specia
l_quantity'];?></td>
        </tr>
        <?php } while ($row_RecOrderDetailSpecial =
mysql_fetch_assoc($RecOrderDetailSpecial));?>
      <?php } // end if($totalRows_RecOrderDetailAddOn > 0) { ?>


      <!--   <tr>
                  <td colspan="5" align="right"  valign="top"
bgcolor="#FFFFFF" ><strong>Add Ons - </strong> </td>
                  <td align="center" valign="top" bgcolor="#FFFFFF"
> </td>
                </tr>-->


      <tr>
        <td colspan="4" align="right"  valign="top" bgcolor="#FFFFFF"
> <strong> Total Amount</strong></td>
        <td align="center" valign="top" bgcolor="#FFFFFF" >RM <?php echo
number_format($row_RecOrder['total'],2); ?></td>
      </tr>
      <?php if($row_RecOrder['pay_type'] == 3 && ($row_RecOrder['status'] ==
"00")) { //paypal ?>
      <tr>
        <td colspan="6" align="right"  valign="top" bgcolor="#FFFFFF"
><strong>Fees & Charges PayPal</strong></td>
        <td align="center" valign="top" bgcolor="#FFFFFF" >RM <?php echo
number_format($row_RecOrder['pp_mc_fee'],2); ?></td>
      </tr>
      <tr>
```

```
        <td colspan="6" align="right"  valign="top" bgcolor="#FFFFFF"
><strong>PayPal Total</strong></td>
          <td align="center" valign="top" bgcolor="#FFFFFF" ><?php
$total_paypal = $row_RecOrder['total'] - $row_RecOrder['pp_mc_fee']; ?>
          RM <?php echo number_format($total_paypal,2); ?></td>
        </tr>
        <?php } ?>
      </table>


      <!-- point of sales ends-->
      <!-- <tr>
                      <td colspan="2" align="right"  valign="top"
bgcolor="#FFFFFF" > <strong> Total Amount</strong> </td>
                      <td align="center" valign="top" bgcolor="#FFFFFF" >RM
<?php echo number_format($row_RecOrder['total'],2); ?> </td>
                  </tr>-->


      <?php if($row_RecOrder['pay_type'] == 3 && ($row_RecOrder['status'] ==
"00")) { //paypal ?>
    <tr>
      <td colspan="6" align="right"  valign="top" bgcolor="#FFFFFF"
><strong>Fees & Charges PayPal</strong></td>
      <td align="center" valign="top" bgcolor="#FFFFFF" >RM <?php echo
number_format($row_RecOrder['pp_mc_fee'],2); ?></td>
    </tr>
    <tr>
      <td colspan="6" align="right"  valign="top" bgcolor="#FFFFFF"
><strong>PayPal Total</strong></td>
      <td align="center" valign="top" bgcolor="#FFFFFF" ><?php $total_paypal =
$row_RecOrder['total'] - $row_RecOrder['pp_mc_fee']; ?>
      RM <?php echo number_format($total_paypal,2); ?></td>
    </tr>
    <?php } ?>
```

```html
    </table>
    <br />
    <table width="100%" border="0" align="center" cellpadding="4"
cellspacing="1" bgcolor="#CCCCCC">
    </table>
    <!--Proof of payment -->
    <form action="#" method="POST" enctype="multipart/form-data">
    </form>
    <?php } // Show if recordset not empty ?>
  </div>


  <!--body ends -->
</div>
<div class="footer">
  <?php
      include'footer.php';
      ?>
</div>
</body>
</html>
</td>
</tr>
</table>
<p>
  <?php
          if(isset($row_proof['file_name']))
          {



          ?>
</p>
<table width="55%" border="0" align="center">
  <tr>
```

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```html
   <td><h1>Proof of Payment History</h1></td>
  </tr>
  <tr>
   <td>Transaction id:<?php echo $row_proof['trans_id'];?></td>
  </tr>
  <tr>
   <td>Transaction Date:<?php echo $row_proof['date'];?></td>
  </tr>
  <tr>
   <td>Transaction Time:<?php echo $row_proof['time'];?></td>
  </tr>
  <tr>
   <td>Transaction Amount: RM<?php echo $row_proof['amt'];?></td>
  </tr>
  <tr>
   <td><?php
                 $file=$row_proof['file_name'];
                 ?>
    <img src="proof/<?php echo $file; ?>" width="400" height="500"></td>
  </tr>
</table>
<?php
        }
        ?>
</div>
</div>
</div>
</div>


</body>
</html>
```

# APPENDIX D

| Universiti Tunku Abdul Rahman | | | |
|---|---|---|---|
| Form Title : Supervisor's Comments on Originality Report Generated by Turnitin for Submission of Final Year Project Report (for Undergraduate Programmes) | | | |
| Form Number: FM-IAD-005 | Rev No.: 0 | Effective Date: 01/10/2013 | Page No.: 1of 1 |

**FACULTY OF INFORMATION AND COMMUNICATION TECHNOLOGY**

| Full Name(s) of Candidate(s) | TAN YUNG ANN |
|---|---|
| ID Number(s) | 15ACB05762 |
| Programme / Course | BACHELOR OF INFORMATION SYSTEMS (HONS) INFORMATION SYSTEM ENGINEERING (IA) |
| Title of Final Year Project | ATD ONLINE SYSTEMS |

| Similarity | Supervisor's Comments (Compulsory if parameters of originality exceeds the limits approved by UTAR) |
|---|---|
| **Overall similarity index:** 3 % <br><br> **Similarity by source** <br> Internet Sources: 2 % <br> Publications: 0 % <br> Student Papers: 2 % | |
| **Number of individual sources listed** of more than 3% similarity: ____0____ | |

**Parameters of originality required and limits approved by UTAR are as Follows:**
 (i) Overall similarity index is 20% and below, and
 (ii) Matching of individual sources listed must be less than 3% each, and
 (iii) Matching texts in continuous block must not exceed 8 words
*Note: Parameters (i) – (ii) shall exclude quotes, bibliography and text matches which are less than 8 words.*

Note: Supervisor/Candidate(s) is/are required to provide softcopy of full set of the originality report to Faculty/Institute

*Based on the above results, I hereby declare that I am satisfied with the originality of the Final Year Project Report submitted by my student(s) as named above.*

_____
Signature of Supervisor

Name: ____**TEY CHEE CHIEH**____

Date: _____

_____
Signature of Co-Supervisor

Name: _____

Date: _____

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| | |
|---|---|
| Submission author: | Yung Ann TAN |
| Assignment title: | FYP1 |
| Submission title: | FYP2 |
| File name: | ATD_FYP2.docx |
| File size: | 8.43M |
| Page count: | 180 |
| Word count: | 23,982 |
| Character count: | 129,386 |
| Submission date: | 08-Aug-2018 04:58PM (UTC+0800) |
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ATD FYP2

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**3**% SIMILARITY INDEX   **2**% INTERNET SOURCES   **0**% PUBLICATIONS   **2**% STUDENT PAPERS

PRIMARY SOURCES

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| | | |
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| | Student Paper | <1% |
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Joint Conference on Computer Science and
Software Engineering (JCSSE), 2016
Publication

| 19 | fr.slideshare.net
Internet Source | <1% |
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Student Paper | <1% |
| 21 | greentea.kek.jp
Internet Source | <1% |
| 22 | Submitted to Oxford Brookes University
Student Paper | <1% |
| 23 | www.applitech.co.jp
Internet Source | <1% |
| 24 | Gerard O'Regan. "Giants of Computing",
Springer Nature America, Inc, 2013
Publication | <1% |

Exclude quotes          On          Exclude matches          < 5 words
Exclude bibliography     On

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# UNIVERSITI TUNKU ABDUL RAHMAN

# FACULTY OF INFORMATION & COMMUNICATION TECHNOLOGY (KAMPAR CAMPUS)

**CHECKLIST FOR FYP2 THESIS SUBMISSION**

| Student Id | 15ACB05762 |
|---|---|
| Student Name | TAN YUNG ANN |
| Supervisor Name | TEY CHEE CHIEH |

| TICK (√) | DOCUMENT ITEMS<br>Your report must include all the items below. Put a tick on the left column after you have checked your report with respect to the corresponding item. |
|---|---|
| √ | Front Cover |
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| √ | Title Page |
| √ | Signed form of the Declaration of Originality |
| √ | Acknowledgement |
| √ | Abstract |
| √ | Table of Contents |
| √ | List of Figures (if applicable) |
| √ | List of Tables (if applicable) |
| √ | List of Symbols (if applicable) |
| √ | List of Abbreviations (if applicable) |
| √ | Chapters / Content |
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