

## **COMPUTER UNIVERSITY (MANDALAY)**



### **FINAL YEAR PROJECT REPORT**

We greatly appreciate the help and advice received from our supervisor, Dr. Win Myint, Associate Professor, Head of Department, English and Daw Toe Toe Wai, Tutor, English Department. She is our source of motivation, her endless patience, positive outlook, ability to provide accurate information, and her support have been very useful throughout our project.

We would also like to express our special thanks to U Thaung Kyaw, Lecturer, Information System Department. She is our source of motivation, her endless patience, positive outlook, ability to provide accurate information, and her support have been very useful throughout our project.

### **ONLINE ORDER CONTROL SYSTEM FOR POLY-PROPYLENE**

she has influenced us greatly. Her support and encouragement have been very useful throughout our project. She is our source of motivation, her endless patience, positive outlook, ability to provide accurate information, and her support have been very useful throughout our project.

many things about project working together with her, and her support has been essential for the success of our work.

We would like to thank all of my teachers for their mentoring, encouragement, and support throughout our project.

### **BACHELOR OF COMPUTER SCIENCE**

We would like to express our thanks and gratitude to U Thaung Kyaw, Associate Professor, Head of Department, English and Daw Toe Toe Wai, Tutor, English Department, for her overall supporting and editing throughout of our project.

**PRESENTED BY GROUP (13)**

**2014-2015**

## Acknowledgements

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We would like to thank a lot to all my teachers for their mentoring, encouragement, and recommending the thesis.

We would like to express my respectful gratitude to **U Thaung Kyaw**, Associate Professor, Head of Department of English and **Daw Toe Toe Wai Kyaw**, Tutor, English Department, for her overall supporting and editing throughout of our project.

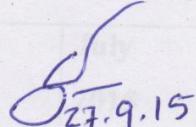
Project Schedule

### Group Member List

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Name: Daw Sander Aung



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## Project Schedule

This system is On-line Control System for Poly-Propylene. This system is a client server architecture and is based on two-tier architecture.

**Project Proposal :** : 5.3.2015

**First Seminar :** : 27.5.2015

**Second Seminar :** : 1.7.2015

**Third Seminar :** : 5.8.2015

**Book Submission :** : September, 2015

Time Schedule	March 2015	May 2015	June 2015	July 2015	September 2015
<b>Project Proposal</b>					
<b>First Seminar</b>					
<b>Second Seminar</b>					
<b>Third Seminar</b>					
<b>Book Submission</b>					

## **Abstract**

This system is Online order Control System for Poly-Propylene . This system uses client-server architecture and is based on two-tier architecture using with fat-client model. In Computer Science client-server is a software architecture model consisting of two parts, client systems and server systems, both communicating over a computer network or on the same computer. Client-server architecture is a network architecture in which each computer or process on the network is either a client or a server. Servers are powerful computers and clients are PCs or workstations on which users run applications. Clients rely on servers for resources, such as files, devices and even processing power. Customers can look for the information of the products from the client side. The server side accepts order and is able to control the process accurately and precisely. This system will be implemented with PHP Hyper-text Preprocessor (PHP) programming language.

1.3 Project Requirements

1.3.1 Hardware Requirements

1.3.2 Software Requirements

## **CHAPTER 2: THEORY BACKGROUND**

2.1 Client-server Architecture

2.2 Two-tier Client-server Architecture

2.2.1 Fat-client Model

## **CHAPTER 3: DESIGN AND IMPLEMENTATION**

3.1 System Flow Diagram

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## CHAPTER 1

### INTRODUCTION

#### 1.1 Introduction

In Myanmar, business organizations start to apply IT technologies for better results. This system aims to implement Poly-Propylene's ordering and selling by using online system. Online ordering system is an e-commerce function where company allows customers to order products or services via their website. Since the internet is booming, having an online ordering system can boost sales to some extent as it eases customers to place an order for the company's services. It means that people can orders from their home as long as they have a computer/laptop with internet connection. These days, every business small or large should have some sort of online presence. Right now, only 50 percent of small-to-medium-sized businesses are online at all. That number alone is disheartening. Even worse, of the businesses that have made the transition in to the world, very few actually offer some sort of user interaction that can enhance their approachability and increase their bottom line. In addition to having a well-designed, highly functioning website or app that invites the customers and shows them exactly why the products or services are superior the next business's implementing an online ordering system. Poly-Propylene is a type of thermoplastic polymer resin. It is a part of both the average household and is in commercial and industrial applications. The chemical designation is C<sub>3</sub>H<sub>6</sub>. One of the benefits of using this type of plastic is that it can be useful in numerous applications including as a structural plastic or as

fiber-type plastic. This plastic is often used for food containers, particularly those that need to be dishwasher safe.

## 1.2 Objectives of the Project

- To understand two-tier method of client-server architecture.
- To reduce the number of staffs.
- To show the latest information about the products.
- To calculate the cost of the products quickly that the customer chooses.
- To make more accurate and convenient for customers.

## 1.3 Project Requirements

### CHAPTER 2

#### 1.3.1 Hardware Requirements

- A computer that has P4 compatible
- At least 512M memory
- CD disk drive and other peripheral devices

#### 1.3.2 Software Requirements

- Microsoft Office Word 2010 or higher
- NuShpere PhpED
- Mozilla Firefox

## CHAPTER 2

### THEORY BACKGROUND

#### 2.1 Client-server Architecture

Client-server architecture is an application modeled as a set of services that are provided by a server and a set of clients that use these services. Often clients and servers communicate over a computer network on separate hardware, but both client and server may reside in the same system. A server host runs one or more server programs which share their resources with clients. A client does not share any of its resources, but requests a server's content or service function. Clients initiate communication and the server responds. The client only has to understand the response based on the well-known application protocol, i.e. the content and the sessions with servers which await incoming requests. In general, a service is an abstraction of computer resources and a client does not have to be concerned with how the server performs while fulfilling the request and delivering the formatted data for the requested service. Clients and servers exchange messages in a request-response messaging pattern: The client sends a request, and the server returns a response. This exchange of messages is an example of inter-process communication. To communicate, the computers must have a common language, and they must follow rules so that both the client and the server know what to expect [2].

## **2.2 Two-tier Client-server Architecture**

The simplest client-server architecture is called a two-tier client-server architecture, where an application is organized as a server and a set of clients [1]. Two-tier architecture is used to describe client/server systems, where clients request resources and server respond directly to these requests, using their own resources [2]. A two-tier architecture is a software architecture in which a presentation layer or interface runs on a client, and a data layer or data structure gets stored on a server [2]. Separating these two components into different locations represents a two-tier architecture, as opposed to a single-tier architecture [2]. Two-tier client-server architectures can take two forms: thin-client model, fat-client model [1].

### **2.2.1 Fat-client Model**

In fat-client model, the server is only responsible for data control [1]. The software on the client implements the application logic and the interactions with the system user [1]. Fat clients are devices/programs that are powerful enough and operate with limited dependence on their server counterparts [2]. A fat client (sometimes called a thick client) is a networked computer with most resources installed locally, rather than distributed over a network as is the case with a thin client [2]. Most PCs (personal computers), for example, are fat clients because they have their own hard driveDVD drives, software applications and so on [2]. Fat clients are almost unanimously preferred by network users because they are very customizable and the user has more control over what programs are installed and specific system configuration [2].

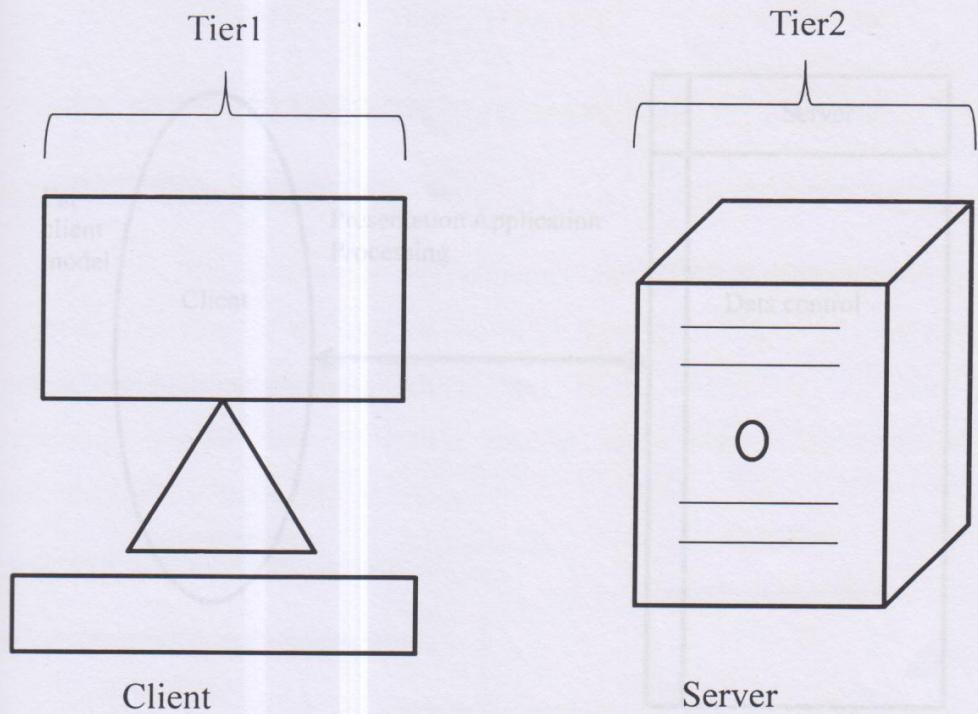


Figure (2.1) Two-tier architecture

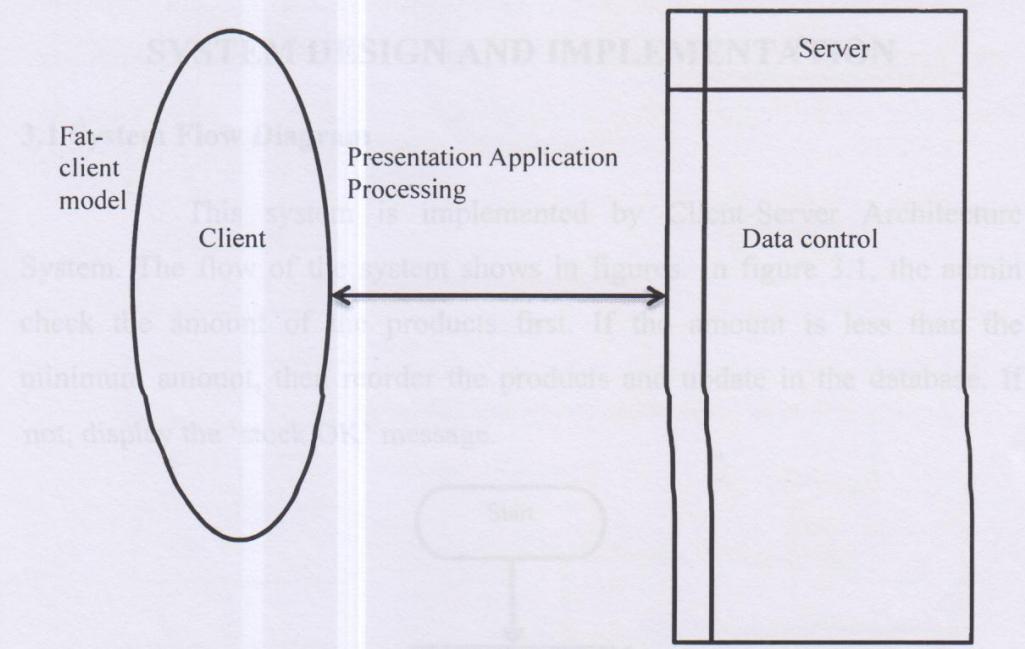


Figure (2.2) Fat-client model

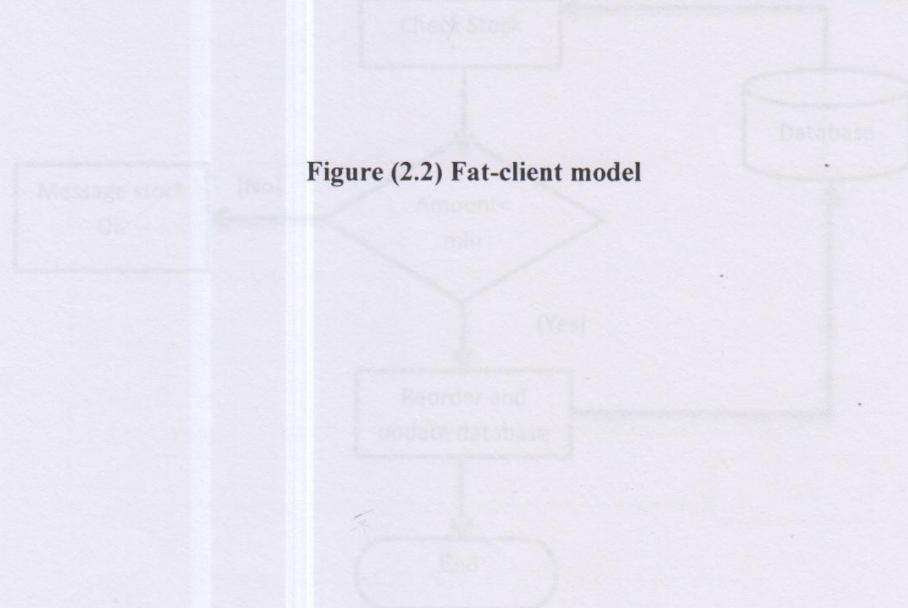


Figure (2.1) System Flow Diagram for Server-side

## CHAPTER 3

### SYSTEM DESIGN AND IMPLEMENTATION

#### 3.1 System Flow Diagram

This system is implemented by Client-Server Architecture System. The flow of the system shows in figures. In figure 3.1, the admin check the amount of the products first. If the amount is less than the minimum amount, then reorder the products and update in the database. If not, display the 'stock OK' message.

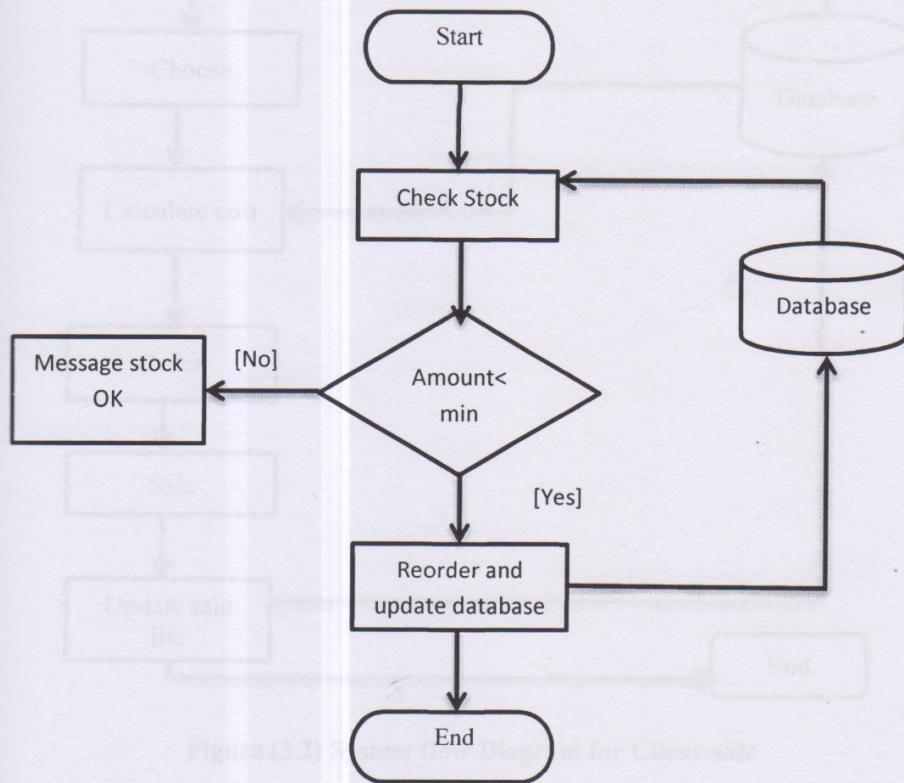


Figure (3.1) System flow Diagram for Server-side

### 3.2 System Flow Diagram

In figure 3.2, this system show the information about the products and the customers can choose from them. This system can calculate the cost of the products that the customers want. If the customers like the products, they can order at any time. This system update the sale product in the sale file of the database after the sale process.

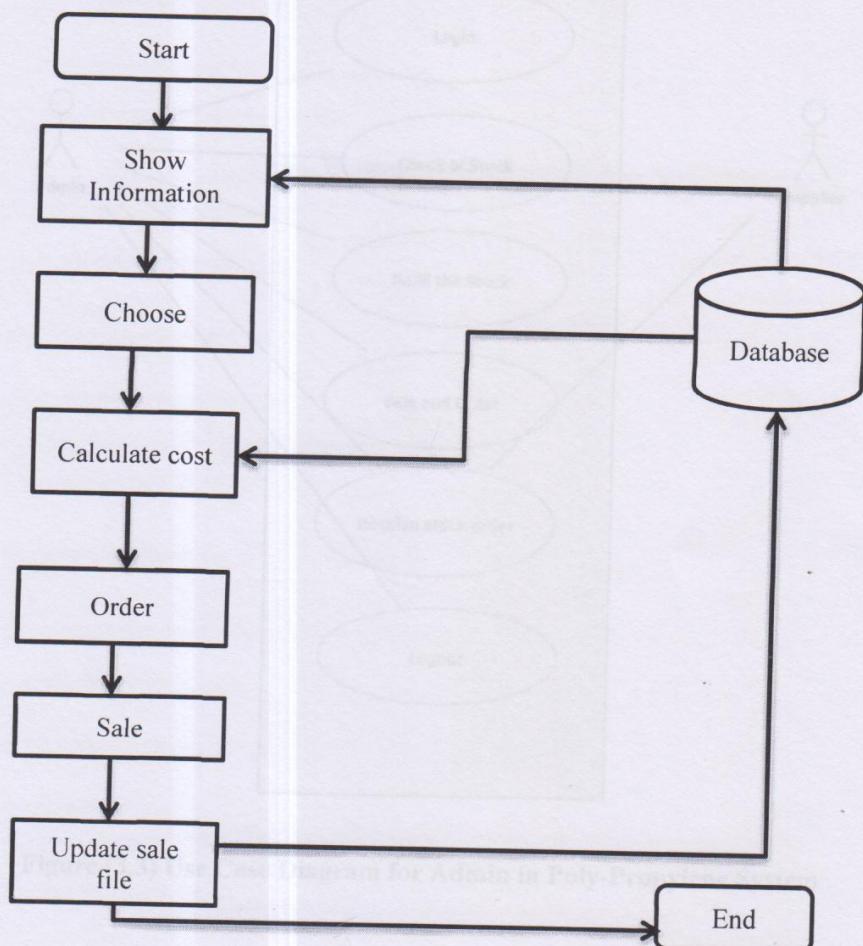


Figure (3.2) System flow Diagram for Client-side

### 3.2 Use Case Diagram

In figure 3.3, Admin check of the stock and refill the stock in this system. Admin receive stock order from the customers and sale the products to the customers [3].

Customer want to the customers [3] the procedures, they can order at any time [3]

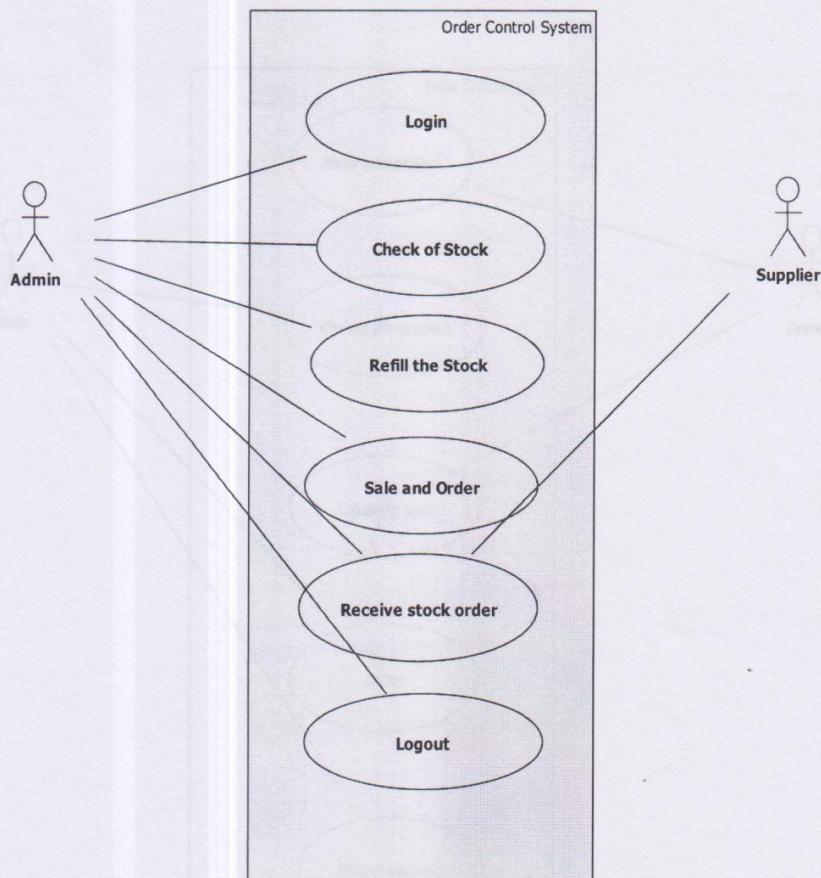


Figure (3.3) Use Case Diagram for Admin in Poly-Propylene System

Figure (3.4) Use Case Diagrams for User in Poly-Propylene System

In figure 3.4, this system show the information about the products and the customers can choose from them. This system can calculate the cost of the products that the customers want. If the customers like the products, they can order at any time [3].

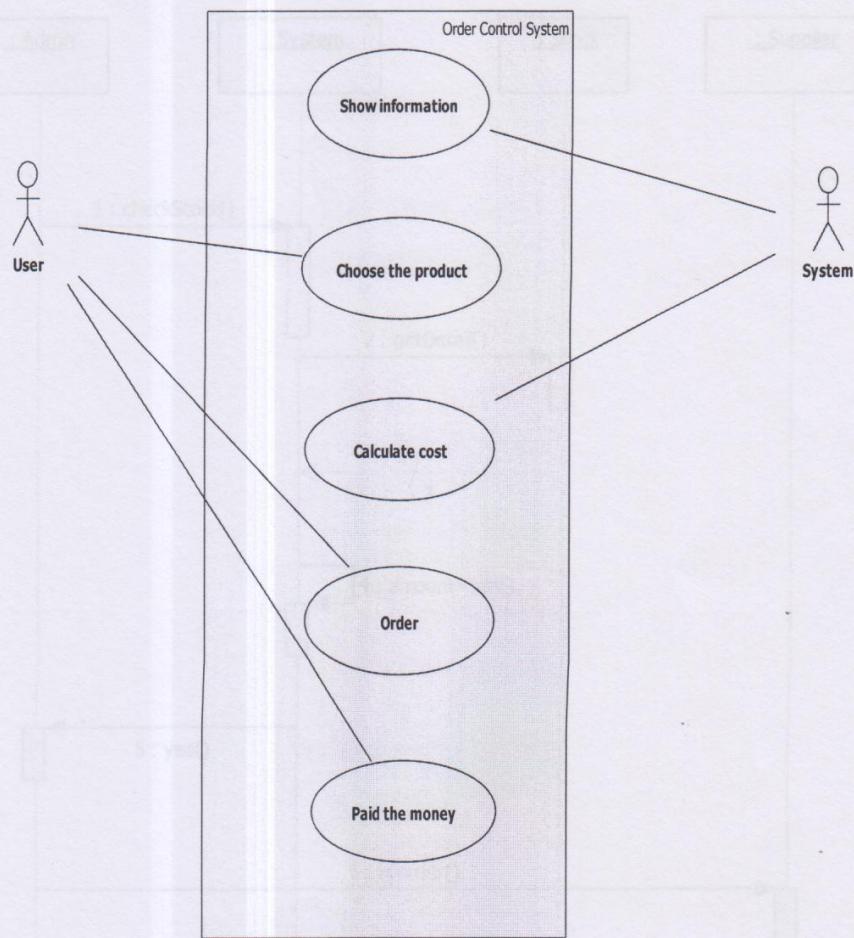


Figure (3.4) Use Case Diagram for User in Poly-Propylene System

### 3.3 Sequence Diagram

In figure 3.5, Admin check of the stock in this system. If amount of the product less than the minimum amount, admin reorder the products to supplier[3].

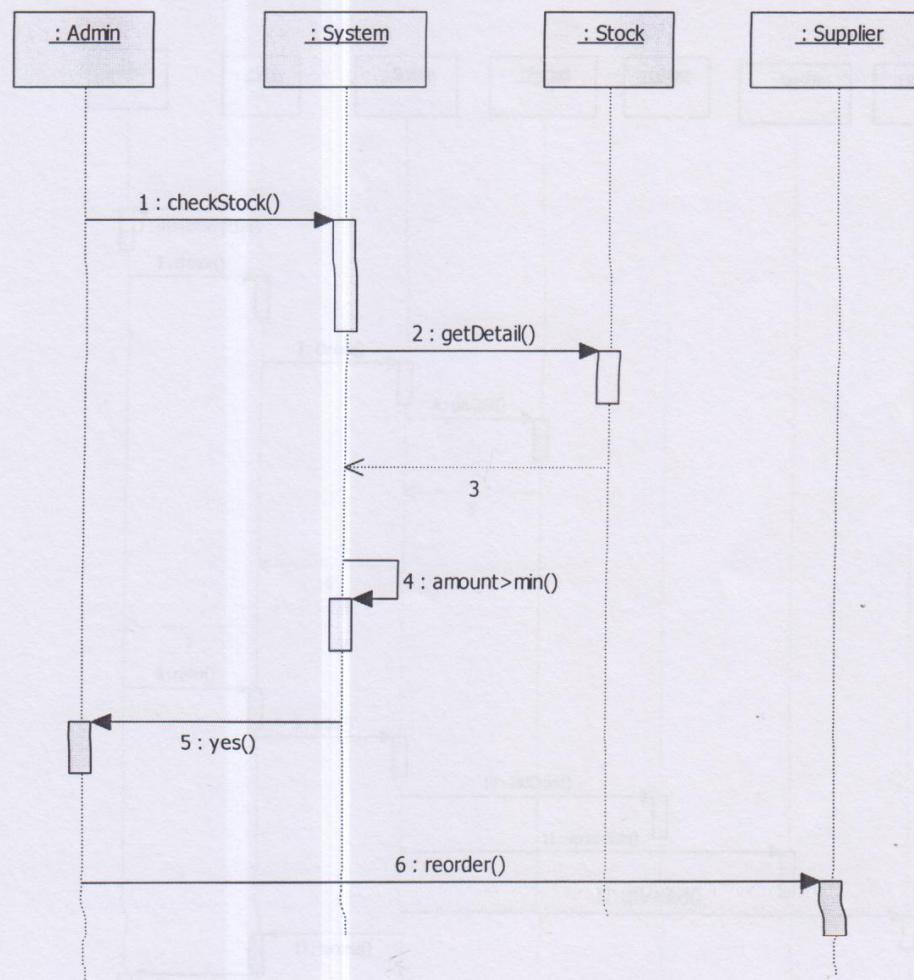
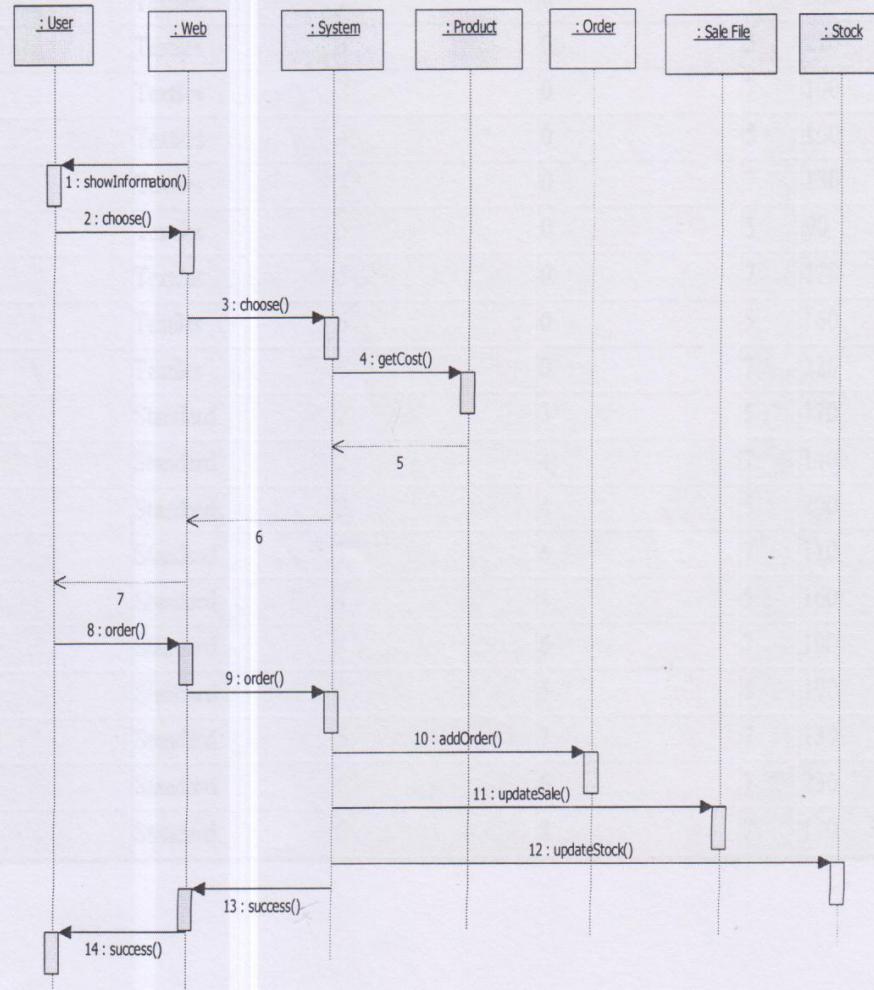


Figure (3.5) Sequence Diagram for Admin in Poly-Propylene System

In figure 3.2, this system show the information about the products and the customers can choose from them. This system can calculate the cost of the products that the customers want. If the customers like the products, they can order at any time. This system updates the sale product in the sale file of the database after the sale process [3].



**Figure (3.6) Sequence Diagram for User in Poly-Propylene System**

### 3.4 Data Set Tables

Table (3.1) Product table

ID	Type	Breadth	Length	Gate	Amount
p1	Textiles	2	0	5	200
p2	Textiles	2	0	7	200
p3	Textiles	3	0	5	210
p4	Textiles	3	0	7	100
p5	Textiles	4	0	5	160
p6	Textiles	4	0	7	130
p7	Textiles	5	0	5	90
p8	Textiles	5	0	7	170
p9	Textiles	6	0	5	160
p10	Textiles	6	0	7	220
p11	Standard	2	3	5	170
p12	Standard	2	4	7	140
p13	Standard	3	4	5	200
p14	Standard	3	6	7	110
p15	Standard	4	4	5	160
p16	Standard	4	6	7	100
p17	Standard	5	5	5	190
p18	Standard	5	7	7	130
p19	Standard	6	6	7	230
p20	Standard	6	8	7	120

Table (3.2) Order table

Table (3.2) Sale table

OrderID	CName	CDes	ID	Amount(lb)
O1	U Ba	Mandalay	P1	50
O2	U Mya	Yangon	P3	30
O3	Daw Su	Nay Pyi	P11	50
O4	Daw Nu	Taunggyi	P13	60

**Table (3.3) Order table**

SaleID	OrderID	CName	Amount(lb)	Price
Sa1	O1	U Ba	50	5500
Sa2	O2	U Mya	50	5500
Sa3	O3	Daw Su	50	5500
Sa4	O4	Daw Nu	50	5500

**Figure (2.7) Main page of the system**

Above Figure is main page of the system. Main page describes two links "View", "About Us" and the text box and button for admin.

### 3.4 Implementation of the Project

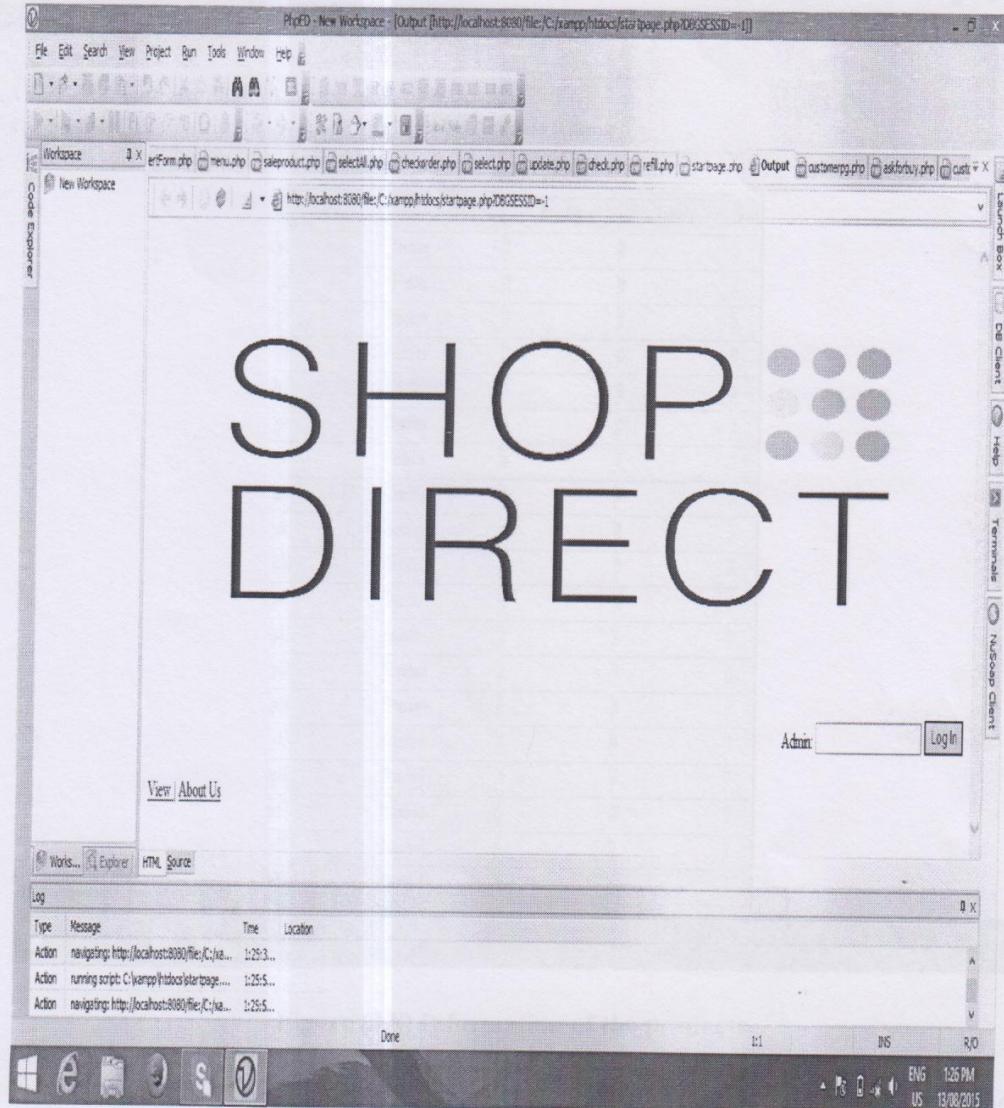


Figure (3.7) Main page of the system

Above figure is main page of the system. Main page describes two links “View”, “About Us” and the text box and button for admin.

Our Product are showed in the following.

ID	Type	Breadth	Length	Gate
p1	Textiles	2	0	5
p2	Textiles	2	0	7
p3	Textiles	3	0	5
p4	Textiles	3	0	7
p5	Textiles	4	0	5
p6	Textiles	4	0	7
p7	Textiles	5	0	5
p8	Textiles	5	0	7
p9	Textiles	6	0	5
p10	Textiles	6	0	7
p11	Standard	2	3	5
p12	Standard	2	4	7
p13	Standard	3	4	5
p14	Standard	3	6	7
p15	Standard	4	4	5
p16	Standard	4	6	7
p17	Standard	5	5	5
p18	Standard	5	7	7
p19	Standard	6	6	7
20				

**Figure (3.8) Information of the products**

Above figure is information of the products. If the customers click the “View” link, it will show the information of the products. If they want to buy, they will require to input id and amount for product and name and address of them.

http://localhost/customerpg.php

p8	Textiles	5	0	7
p9	Textiles	6	0	5
p10	Textiles	6	0	7
p11	Standard	2	3	5
p12	Standard	2	4	7
p13	Standard	3	4	5
p14	Standard	3	6	7
p15	Standard	4	4	5
p16	Standard	4	6	7
p17	Standard	5	5	5
p18	Standard	5	7	7
p19	Standard	6	6	7
p20	Standard	6	8	7

Today Price is 1100.

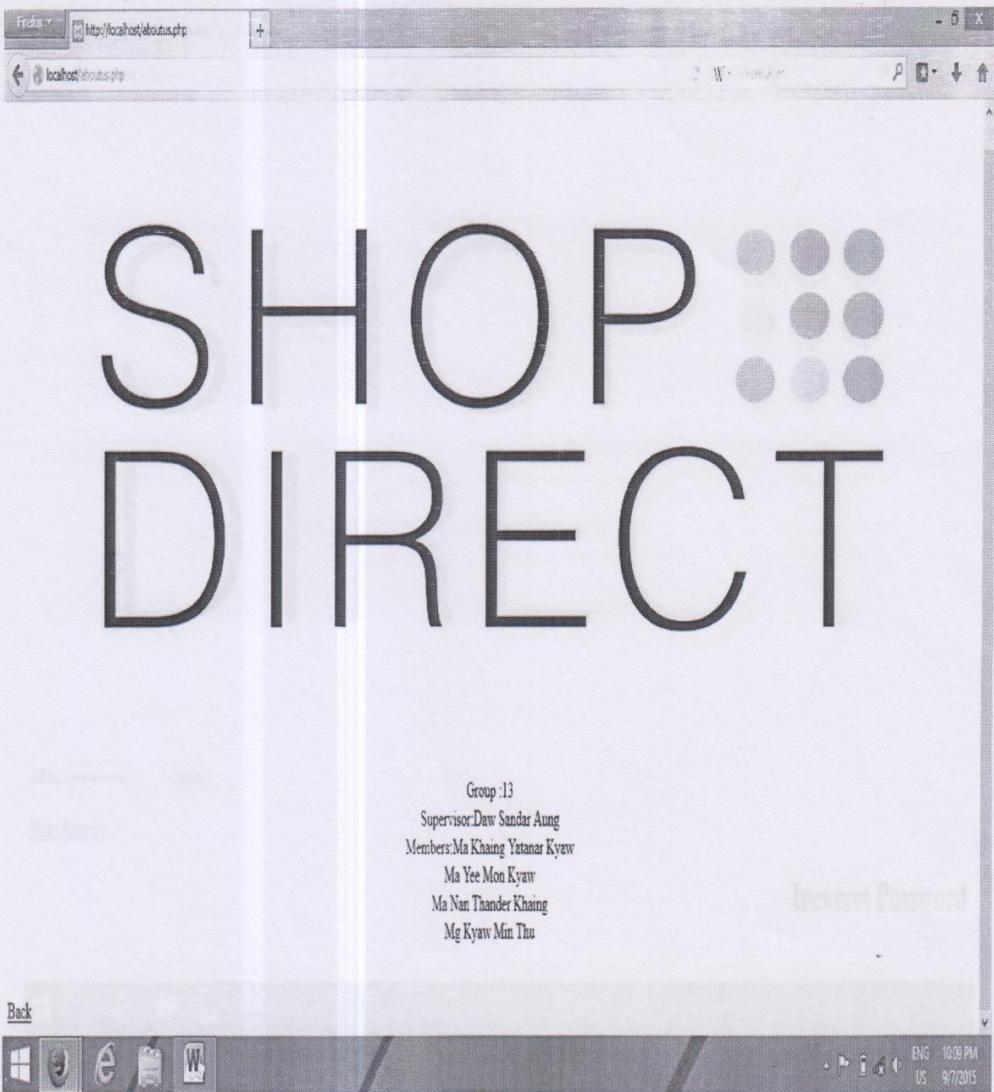
To buy the product, fill the following data.

ID: p20
Amount: 100
Name: Khin Khin
Address: Mandalay
<input type="button" value="Buy"/>

[Go To Buy Custom Size of Products](#)

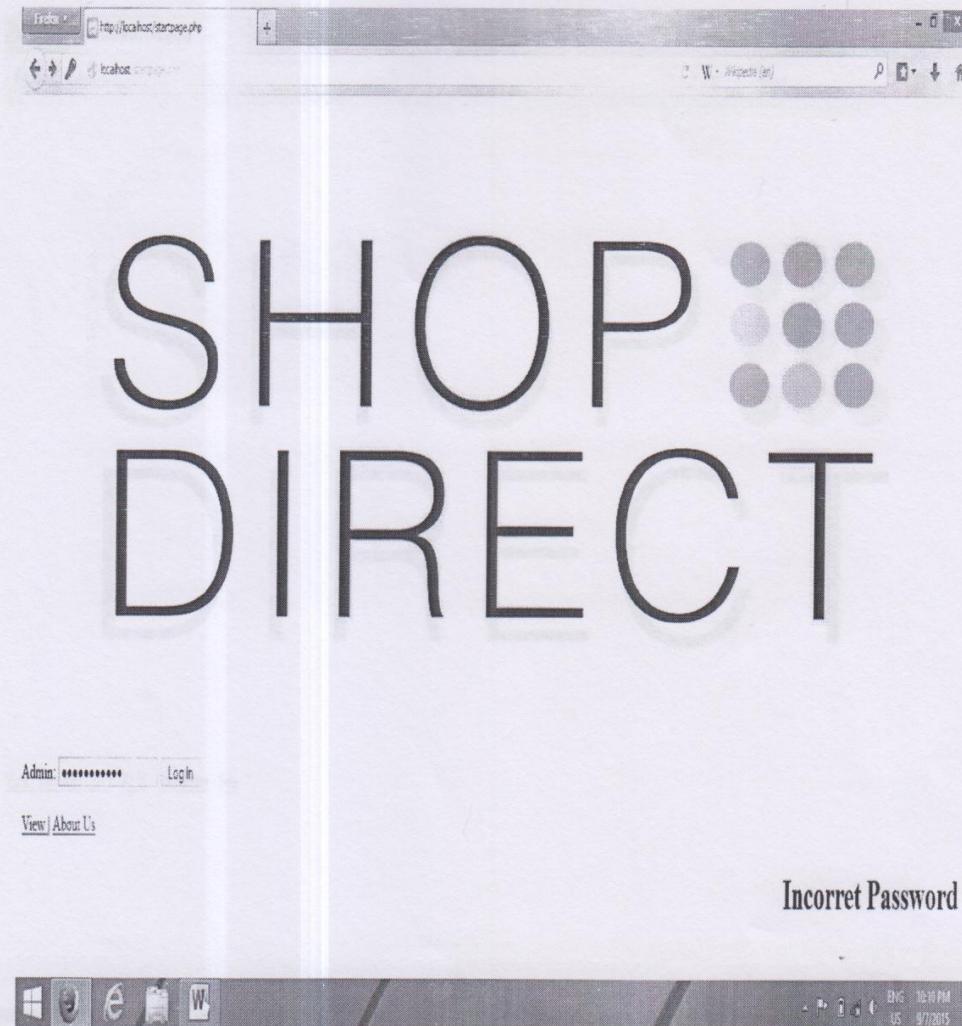
ENG 10:25 PM  
US 9/7/2013

**Figure (3.9) Input form to order the product**



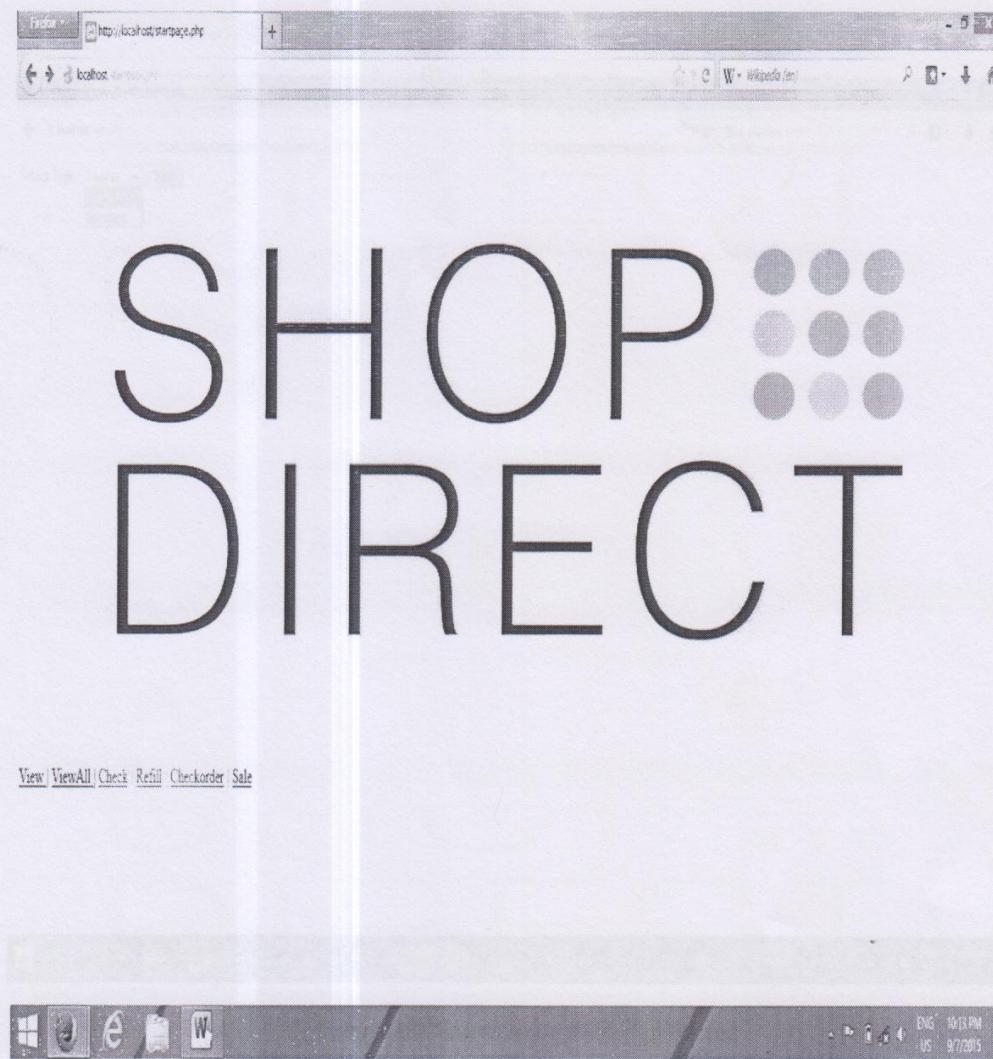
**Figure (3.10) "About Us" form**

Above figure is "About Us" form. If customer click "About Us" link, they will see all of the information about us.



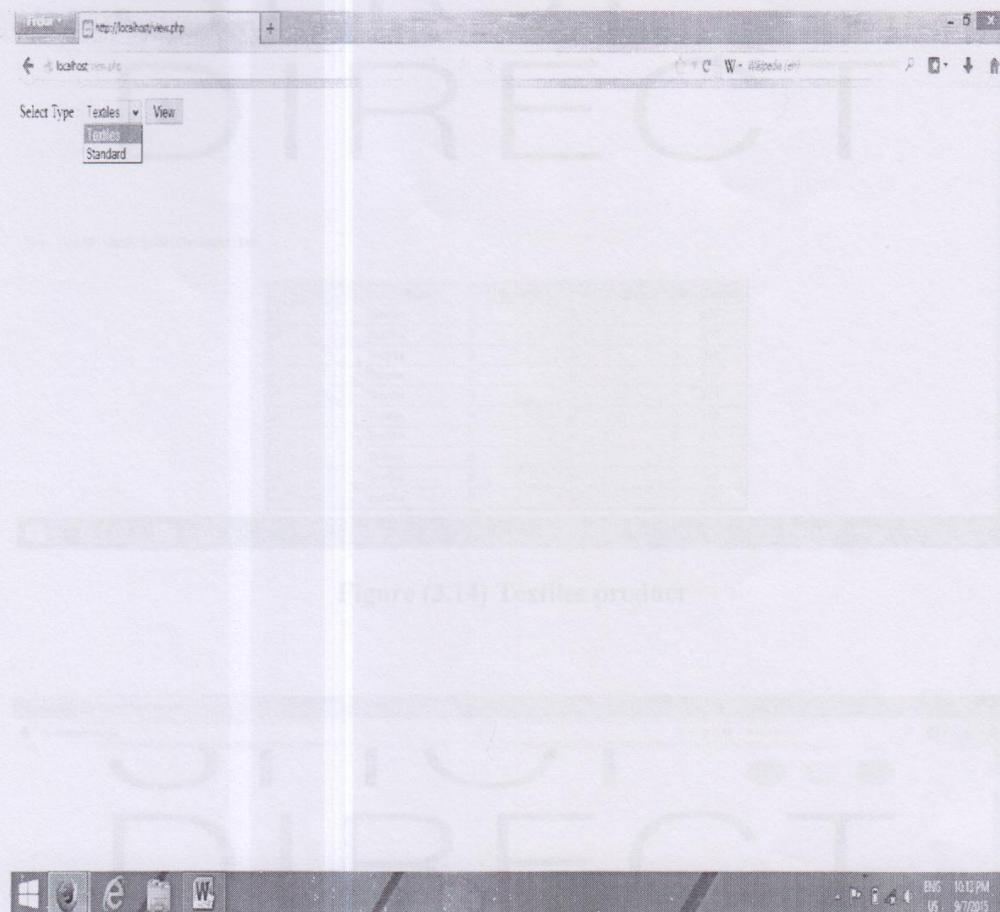
**Figure (3.11) Password input form for admin**

Above figure is password input form for admin. Admin will input the password. If the password is wrong, it will appear “Incorrect Password” message.



**Figure (3.12) Admin's page**

Above figure is admin's page. Admin's page include "View", "View All", "Check", "Refill", "Checkorder" and "Sale" links.



**Figure (3.13) Select type of the product**

Above figure is “Select type of the product”. When admin click “View” link, it will show the selection box to select type of the product. If admin select “Textiles”, it will show the information about the textiles. If admin select “Standard”, it will show the information about the standard products.

View | ViewAll | Check | Refill | Checkorder | Sale

ID	Type	Breadth	Length	Gate Amount
p1	Textiles	2	0	5 150
p2	Textiles	2	0	7 190
p3	Textiles	3	0	5 210
p4	Textiles	3	0	7 150
p5	Textiles	4	0	5 160
p6	Textiles	4	0	7 180
p7	Textiles	5	0	5 190
p8	Textiles	5	0	7 170
p9	Textiles	6	0	5 160
p10	Textiles	6	0	7 200

Figure (3.14) Textiles product

View | ViewAll | Check | Refill | Checkorder | Sale

ID	Type	Breadth	Length	Gate Amount
p11	Standard	2	3	5 170
p12	Standard	2	4	7 150
p13	Standard	3	4	5 150
p14	Standard	3	6	7 245
p15	Standard	4	4	5 185
p16	Standard	4	6	7 200
p17	Standard	5	5	5 190
p18	Standard	5	7	7 130
p19	Standard	6	6	7 210
p20	Standard	6	8	7 130

Figure (3.15) Standard product

The screenshot shows a Microsoft Internet Explorer browser window with the URL <http://localhost/selectall.php>. The page displays a table of products. At the top, there are navigation links: View, ViewAll, Check, Refill, Checkorder, and Sale. Below the table, there is a footer bar with icons for Windows, Task View, Start, File, and a search bar. The status bar at the bottom right shows the date and time: ENG 10:19 PM US 9/7/2015.

ID	Type	Breadth	Length	Gate	Amount
p1	Textiles	2	0	5	150
p2	Textiles	2	0	7	190
p3	Textiles	3	0	5	210
p4	Textiles	3	0	7	150
p5	Textiles	4	0	5	160
p6	Textiles	4	0	7	180
p7	Textiles	5	0	5	190
p8	Textiles	5	0	7	170
p9	Textiles	6	0	5	160
p10	Textiles	6	0	7	200
p11	Standard	2	3	5	170
p12	Standard	2	4	7	150
p13	Standard	3	4	5	150
p14	Standard	3	6	7	245
p15	Standard	4	4	5	185
p16	Standard	4	6	7	200
p17	Standard	5	5	5	190
p18	Standard	5	7	7	130
p19	Standard	6	6	7	210
p20	Standard	6	8	7	130

**Figure (3.16) Show all products**

Above figure is “Show all products”. Show all products when admin click “ViewAll” link.

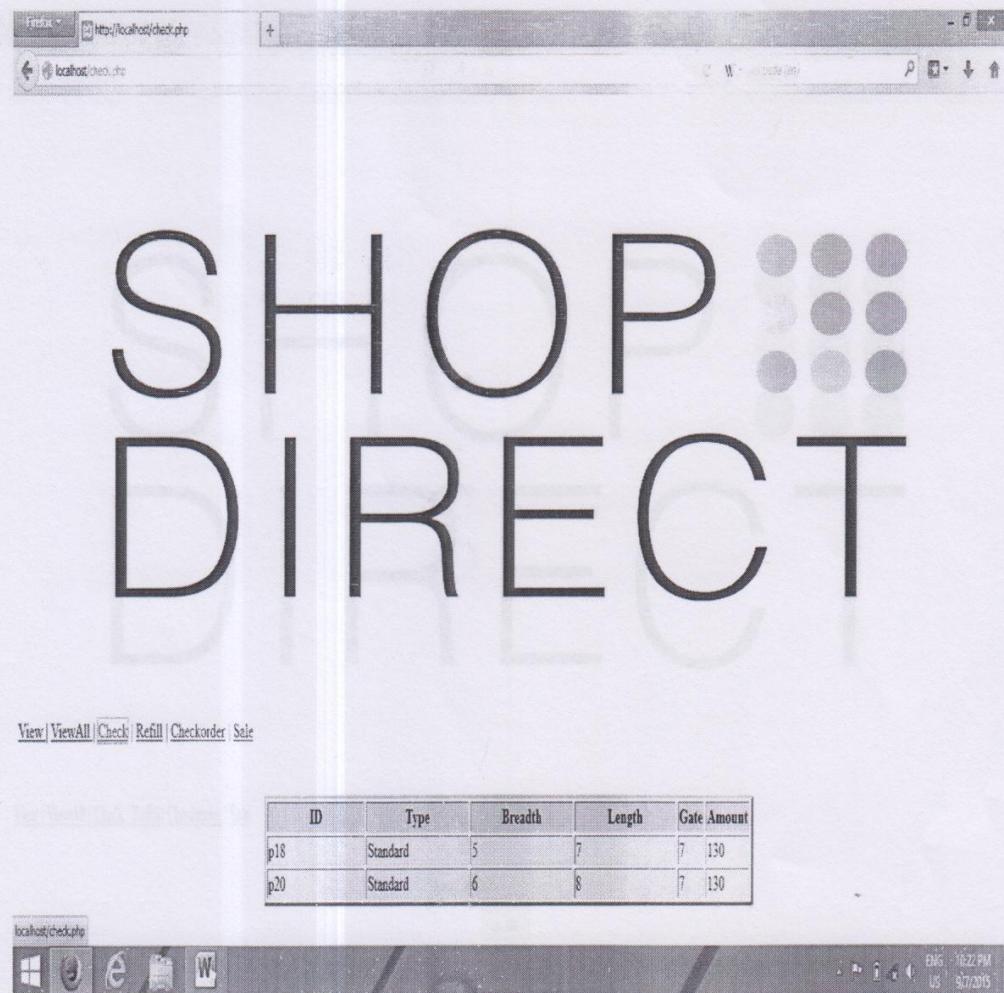


Figure (3.17) Show products amount control

Above figure is “Show products amount control for admin”. Show the products that amounts are less than 150 when admin click “Check” link.

The screenshot shows a web browser window with the URL <http://localhost/refill.php> in the address bar. The page title is "Refill". The main content area features the "SHOP DIRECT" logo. Below the logo is a navigation menu with links: View, ViewAll, Check, Refill, Checkorder, and Sale. Underneath the menu is a form with fields for "ID" (containing "p18") and "Amount" (containing "200"). A "Update" button is located below these fields. At the bottom of the browser window, the status bar displays the URL "localhost/refill.php" and system information: ENG 10:21 PM, US 9/7/2015.

View | ViewAll | Check | Refill | Checkorder | Sale

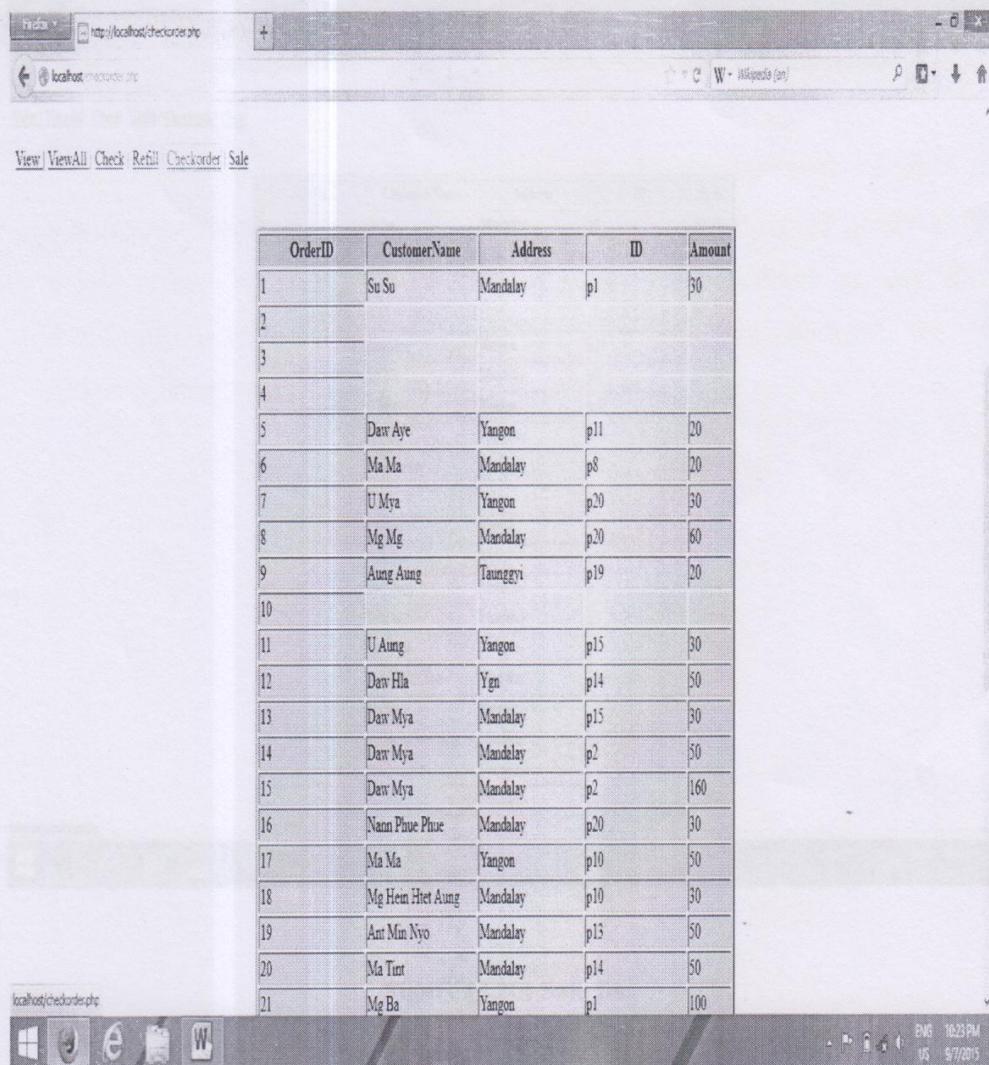
ID: p18

Amount: 200

Update

**Figure (3.18) Refill form**

Above figure is “Refill form”. When admin click “Refill” link, show the refill form. Admin will add id and amount of the product that need to fill. Then admin click “Update” button.



The screenshot shows a Microsoft Internet Explorer window with the URL <http://localhost/checkorder.php>. The page contains a table with columns: OrderID, CustomerName, Address, ID, and Amount. The table lists 21 rows of order data. At the bottom of the table, there is a link labeled "localhost/checkorder.php". The status bar at the bottom right shows the date and time as "ENG 10:23 PM 9/7/2015".

OrderID	CustomerName	Address	ID	Amount
1	Su Su	Mandalay	p1	30
2				
3				
4				
5	Daw Aye	Yangon	p11	20
6	Ma Ma	Mandalay	p8	20
7	U Mya	Yangon	p20	30
8	Mg Mg	Mandalay	p20	60
9	Aung Aung	Taunggyi	p19	20
10				
11	U Aung	Yangon	p15	30
12	Daw Hla	Ygn	p14	50
13	Daw Mya	Mandalay	p15	30
14	Daw Mya	Mandalay	p2	50
15	Daw Mya	Mandalay	p2	160
16	Nann Phue Phue	Mandalay	p20	30
17	Ma Ma	Yangon	p10	50
18	Mg Hein Htet Aung	Mandalay	p10	30
19	Ant Min Nyo	Mandalay	p13	50
20	Ma Tint	Mandalay	p14	50
21	Mg Ba	Yangon	p1	100

**Figure (3.19) Order file**

Above figure is “Order file”. When admin click “Checkorder” and “Sale” link, it will show the order file and sale file.

The screenshot shows a Microsoft Internet Explorer window displaying a table of sales data. The table has five columns: SaleID, CustomerName, Address, ID, and Price. The data is as follows:

SaleID	CustomerName	Address	ID	Price
1	Su Su	Mandalay	p1	33000
2				0
3				0
4				0
5	Daw Aye	Yangon	p11	22000
6	Ma Ma	Mandalay	p8	22000
7	U Mya	Yangon	p20	33000
8	Mg Mg	Mandalay	p20	66000
9	Aung Aung	Taunggyi	p19	22000
10				0
11	U Aung	Yangon	p15	33000
12	Daw Hla	Ygn	p14	55000
13	Daw Mya	Mandalay	p15	33000
14	Daw Mya	Mandalay	p2	55000
15	Daw Mya	Mandalay	p2	176000
16	Nann Phoe Phue	Mandalay	p20	33000
17	Ma Ma	Yangon	p10	55000
18	Mg Hein Htet Aung	Mandalay	p10	33000
19	Ant Min Nyo	Mandalay	p13	55000
20	Ma Tint	Mandalay	p14	55000
21	Mg Ba	Yangon	p1	110000

**Figure (3.20) Sale file**

Above figure is show sale file. Show all sale data when admin click “Sale” link.

## **CHAPTER 4**

### **CONCLUSION**

4.1 Conclusion

By using this system, customers can choose the products from the display information or they can order the customize size of products. By using online system, customers can order our products at any time. Although the customers do not order the products, they can know the cost of the products they want.

## **4.2 Advantages of the Project**

- This system can reduce the number of staffs at shop.
- The customers can purchase the products from the display information at any time.
- This system can reduce the waste time.

## References

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