

**Development of PriyoShop - Online Shopping Mall.  
By**

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This Report Presented in Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Science Computer Science and Engineering.

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**DAFFODIL INTERNATIONAL UNIVERSITY  
DHAKA, BANGLADESH  
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## **APPROVAL**

This Project titled “**Development of PriyoShop – Online Shopping Mall.**” submitted by Md. Nafiul Islam, Tirtha Chandra Dev and Md. Hossain Ahmed to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on September 24, 2020.

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## DECLARATION

We hereby declare that, this project has been done by us under the **supervision of Md. Mahfujur Rahman, Lecturer, Department of CSE and Co-Supervision of Zarin Tasnim Shejuti, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree of diploma.

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We really grateful and wish our profound our indebtedness to Supervisor Md. Mahfujur Rahman, Lecturer, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “Computer Science and Engineering” to carry out this project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior draft and correcting them at all stage have made it possible to complete this project.

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## **ABSTRACT**

PriyoShop – Online Shopping Mall is an online marketplace which is a simple online marketing system. Online marketing is a method for selling and purchasing anything from anywhere at any time without going to any physical marketplace. Now a days it is very difficult to keep up our time in our busy lives for which we neglect to buy a required item. Suppose, you need to buy a required item but you do not have the time for going to a physical marketplace, at this time you can use this web – application for easily buying that item and by doing this you can save your valuable time and money. People can also use this application to sell any products from anywhere and at any time. This is a utilized application for online marketing and will be checked naturally for the items requested by the users. This application has safe, secure and multiple payment options along with an automatic location generator function. With appropriate use of this application both the sellers and the buyers will profit and this will bring a good relationship among them. Moreover, this application also has an interface which is very user – friendly. After the execution of the capacities of everyone, the application is used on a different stage and it's performance is as good as an effective model.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

Creating an e-commerce website which is based on a web – application for doing online business using simple methods. It is wise to save both our money and time by using an e – commerce website where the sellers and the customers come together to take the advantage of it's services. It is an automated website where anyone can buy anything from anywhere with a home delivery service which saves your valuable time and money. It will gave you an easier marketing experience and makes your life easier. It has reduced costs for items and also has limit the working cost for an online system. Every company can use this system from anywhere at any time. You only have to select and order an item of your choice by paying the bills with a transaction service of your choice. When the delivery is completed just check the item and you are done.

### 1.1 Motivation

To help the sellers to easily sell their products and to help the customers to easily find and buy items they like with a safe and secure payment option of their choice by building a user-friendly system for saving their time and money.

### 1.2 Objectives

- i. To build a website for selling any items easily from anywhere and at any time.
- ii. To build a system for getting all the products from anywhere and at any time.
- iii. To make a website which has safe and secure payment options.
- iv. To show the products which are most sold.
- v. To make a system that has automatic location generator function.
- vi. To build a website that is responsive.

### 1.3 Expected Outcome

- i. Multiple users can sell their products easily.
- ii. Services will be available internationally.
- iii. Users can buy anything at a low cost and can save their time.
- iv. Customer services will be provided all the time.
- v. Users can easily generate their locations and can easily pay their bills.

## CHAPTER 2 BACKGROUND STUDIES

### 2.1 Developing the Website

At this time online marketplace is a place where there are a lot of online marketers who are cheating with their customers. Bu in our website the customers will get the original products that we have posted on our website. By doing this we can grow a good relationship between the sellers and the customers. Besides that people can easily sell and buy their products by using our website and can save their time and money.

### 2.2 Related Applications

#### 2.2.1 Rokomari.com

Rokomari.com is a very popular website where peoples can easily find and buy their favorite books and items they need like Laptops, Smartphones, watches etc. It records some information of the users in it's database. It shows top – notched pictures and portrayals of the products. It is a user – friendly website with some secure payment options. Yet, in a questionnaire some users have reported some negative thoughts about Rokomari.com.

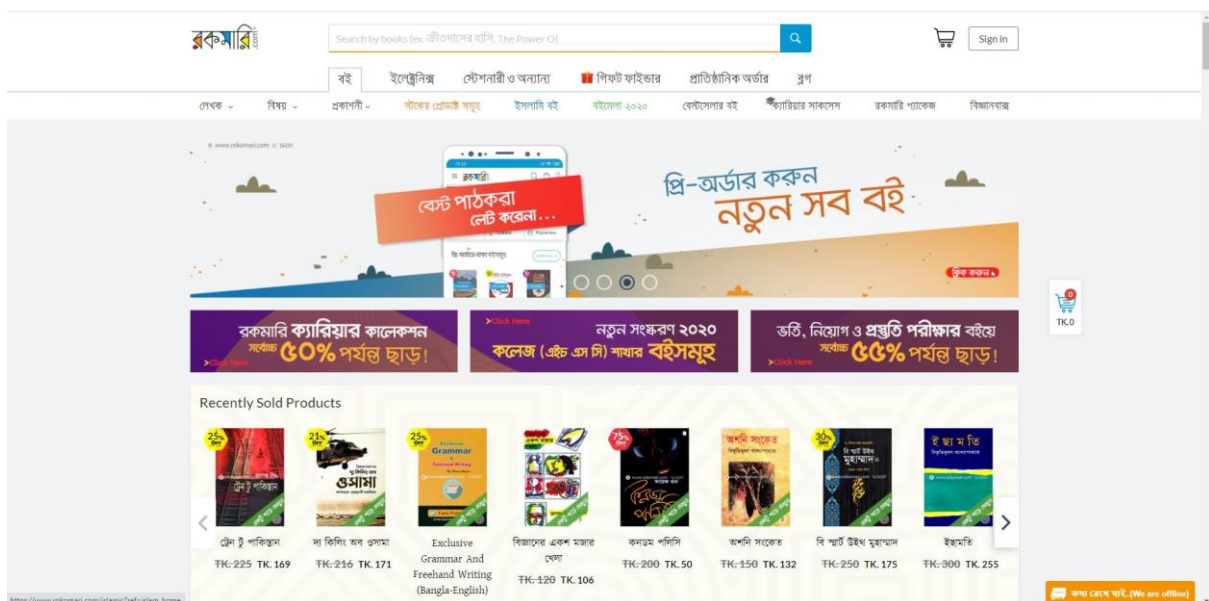


Figure 2.1: Homepage of Rokomari.com

### 2.2.2 Daraz.com.bd

Daraz.com is one of the popular e-commerce website in Bangladesh where customers can easily search and buy multiple types of products. Daraz.com almost sells everything. It also records some information of the users in their database. Pictures and portrayals of the products are also showed in it. It's interface is very user – friendly and it is a safe and secure website with multiple payment options. But in some investigations some users also have reported some negative thoughts about Daraz.com.

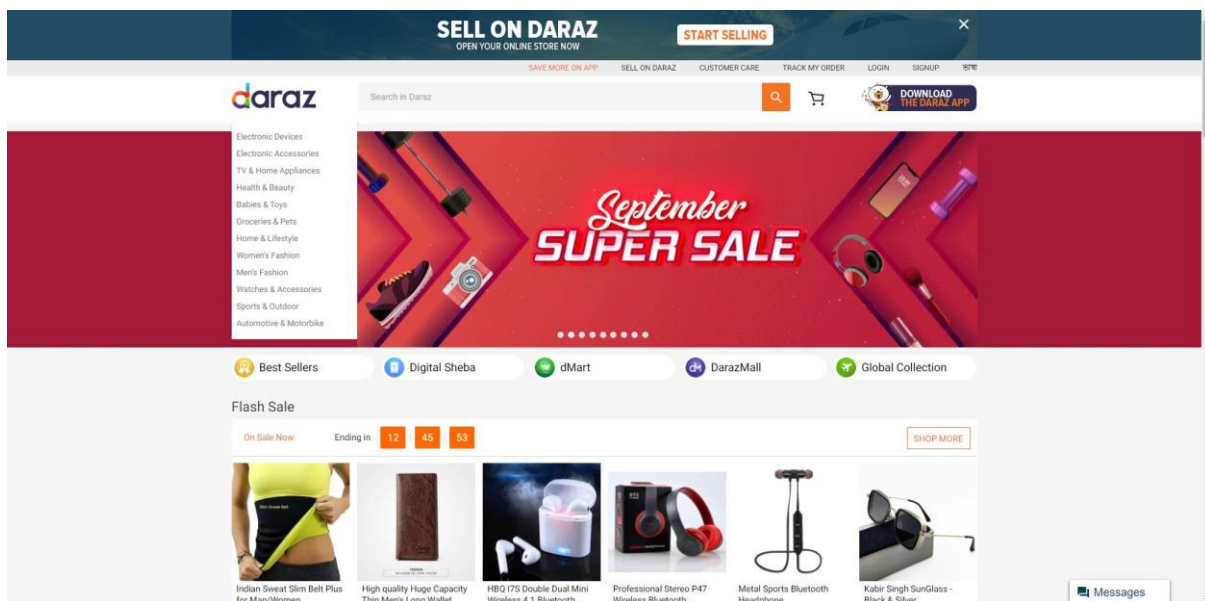


Figure 2.2: Homepage of Daraz.com.bd

### 2.2.3 Ajkerdeal.com

Ajkerdeal.com is also one of the best e-commerce website in Bangladesh. Here people can easily find and purchase almost every products. This website also shows top – notched pictures and portrayals of the products. The interface of the website is very user – friendly, secure and safe. It also have multiple payment options. After all that in some surveys we have found that some users still have some negative thoughts about Ajkerdeal.com.

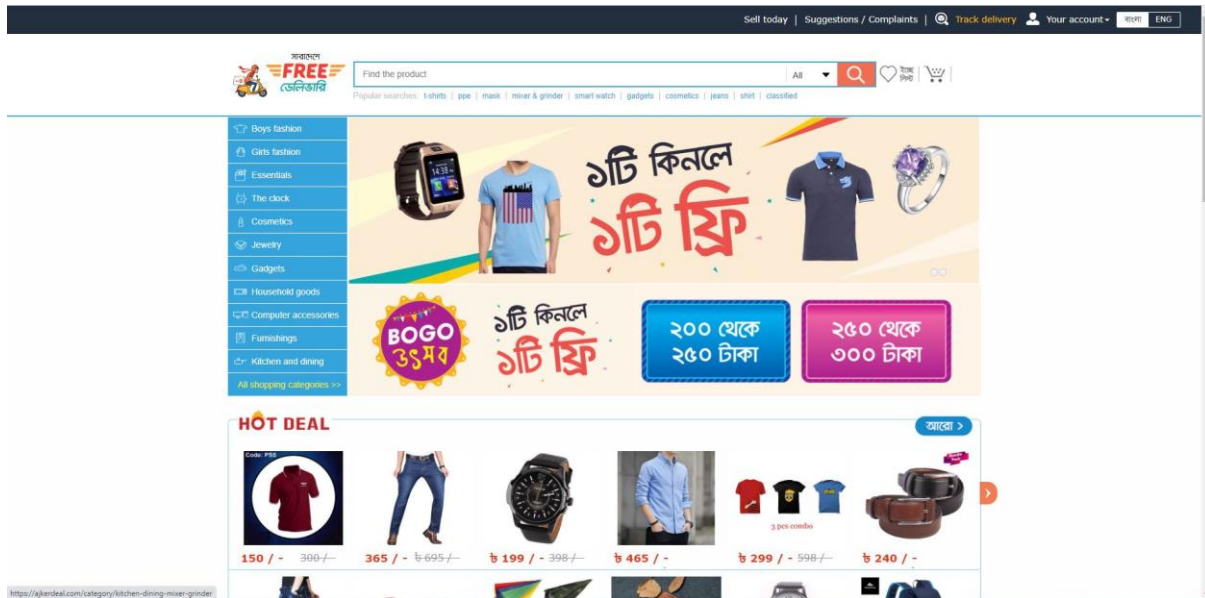


Figure 2.3: Homepage of Ajkerdeal.com

## CHAPTER 3

### REQUIREMENT SPECIFICATION

#### 3.1 Requirement Specification

Requirement Analysis is an important process for the development of any project. Details of the requirement analysis have to be recorded for every steps and the analysis result must be computable with positive test. The requirements can be of many types such as structural, functional and non – functional. For building a better project requirements are needed. The project must fill up the minimum requirements for both hardware and software.

- **Primary research:** Collection of required data from various sources, questionnaires and surveys.
- **Secondary research:** Comparison of the project with other existing applications.

#### 3.3 Functional Requirements

- Registration page for registering a new user.
- Login page using which registered users can login to their accounts.
- A function for automatically adding selected items into a cart.
- Management of user authentication.
- Details, quantity and price of the items will be shown.
- A function using which users can submit the product reviews and ratings.
- Fast, secure and responsive.
- Better security management both for the sellers and the buyers.
- Continuous loading of page.
- Safe and easy checkout.

## **CHAPTER 4 DESIGN ANALYSIS**

By using the design of the system we can estimate the structure and modules of a project for the fulfilment of the user requirements. System design helps the users to select the hardware and software requirements for a specific project.

### **4.1 Method of Development**

The development process is basically a plan for the maintenance of a project where motivation is the most important thing for achieving the goals. Projects are always maintained in a way where they fulfill all the requirements for a specific goal. For developing our application we have used the laravel method that is the best option for us. The development phases of our project are given below:

- Inauguration
- Organizing and Design
- Execution and Building
- Checking and Controlling the system

### **4.2 Used Tools and Languages**

For the development of our project we have used some tools and languages which are listed below:

➤ **Tools**

- i. Local Server: WAMP
- ii. Database Server: MySQL
- iii. IDE: Sublime Text

➤ **Languages**

- i. Laravel
- ii. HTML5
- iii. CSS3
- iv. Bootstrap and jQuery

### 4.3 Use – Case diagram of PriyoShop

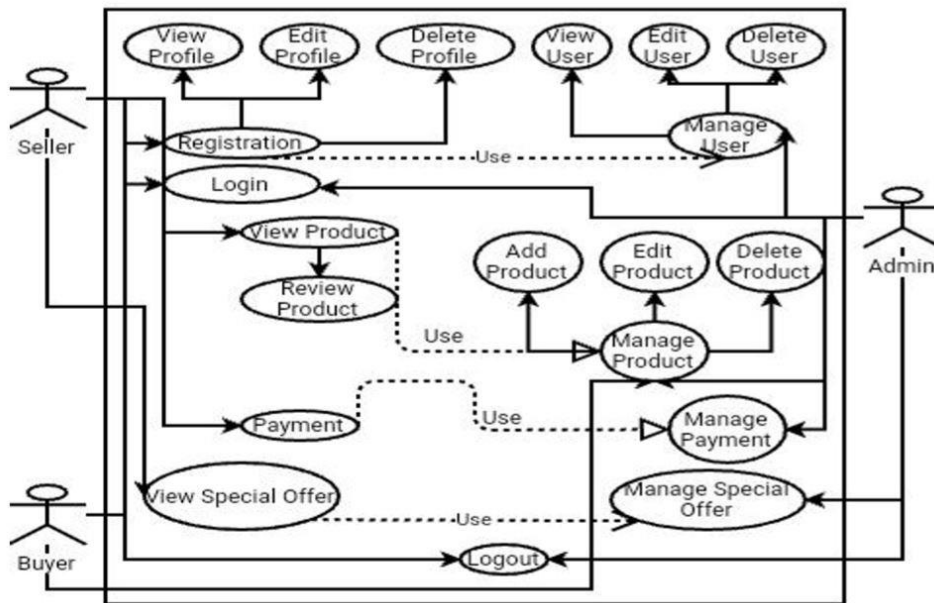


Figure 4.1: Use – Case diagram of PriyoShop

## 4.4 DFD diagram of PriyoShop

### 4.4.1 DFD Level – 0 diagram of PriyoShop

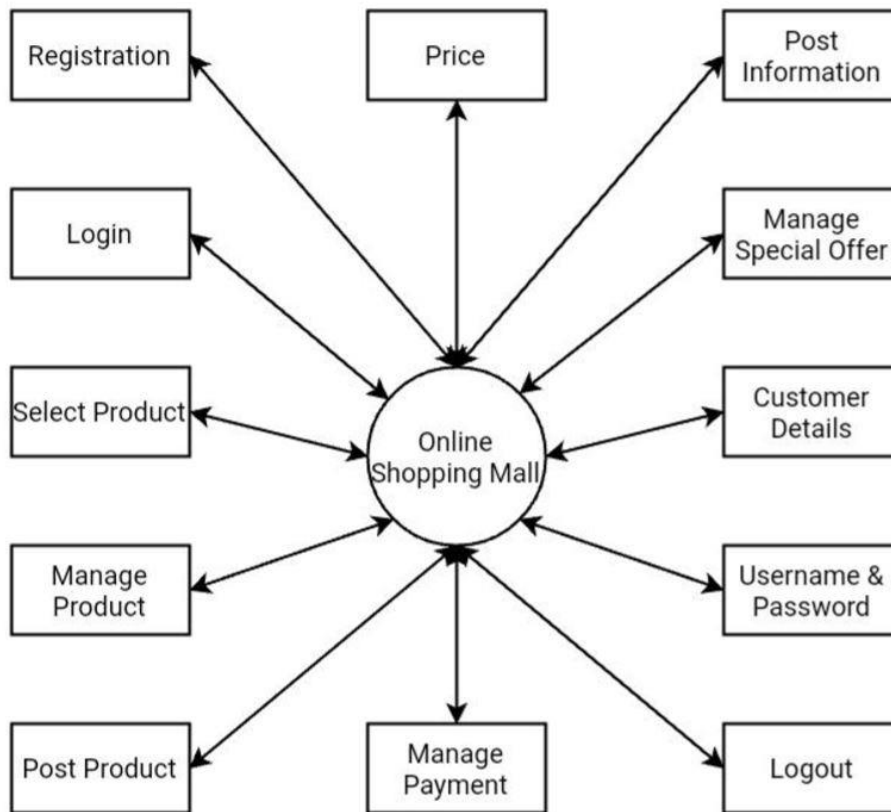


Figure 4.2: DFD Level – 0 diagram of PriyoShop



#### 4.4.2 DFD Level – 1 diagram of PriyoShop

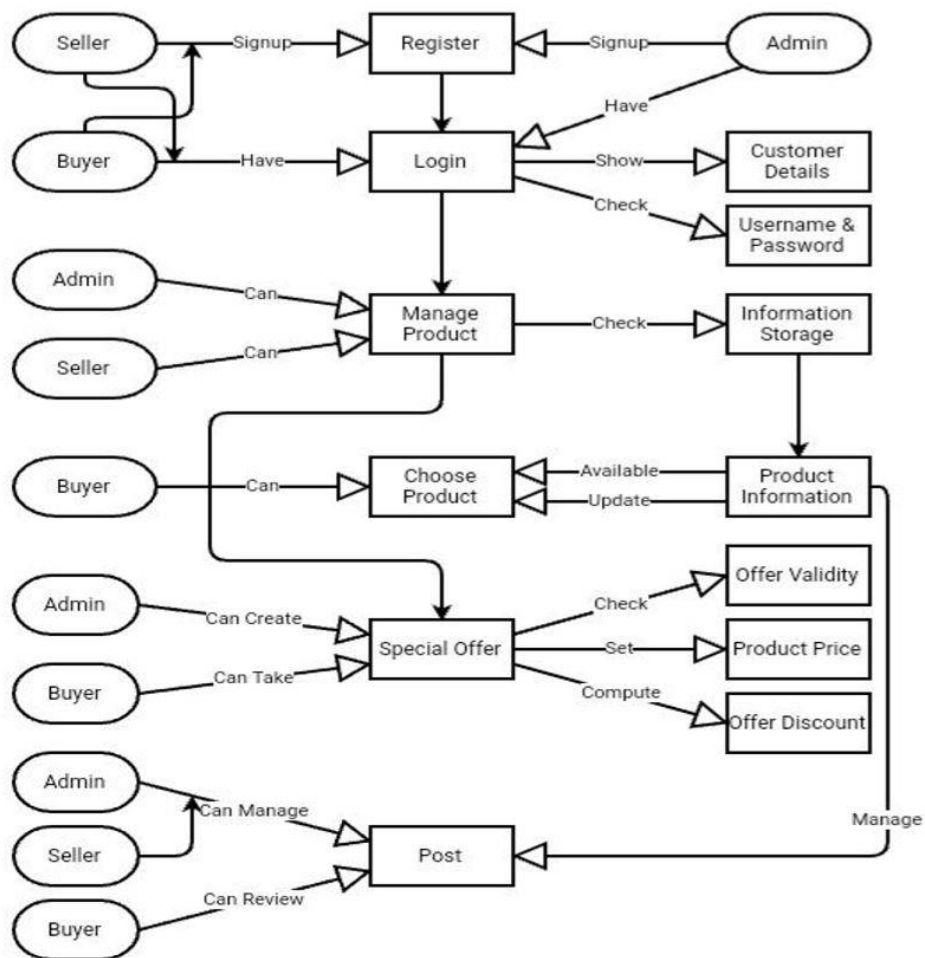


Figure 4.3: DFD Level – 1 diagram of PriyoShop

## 4.5 Activity diagram of PriyoShop

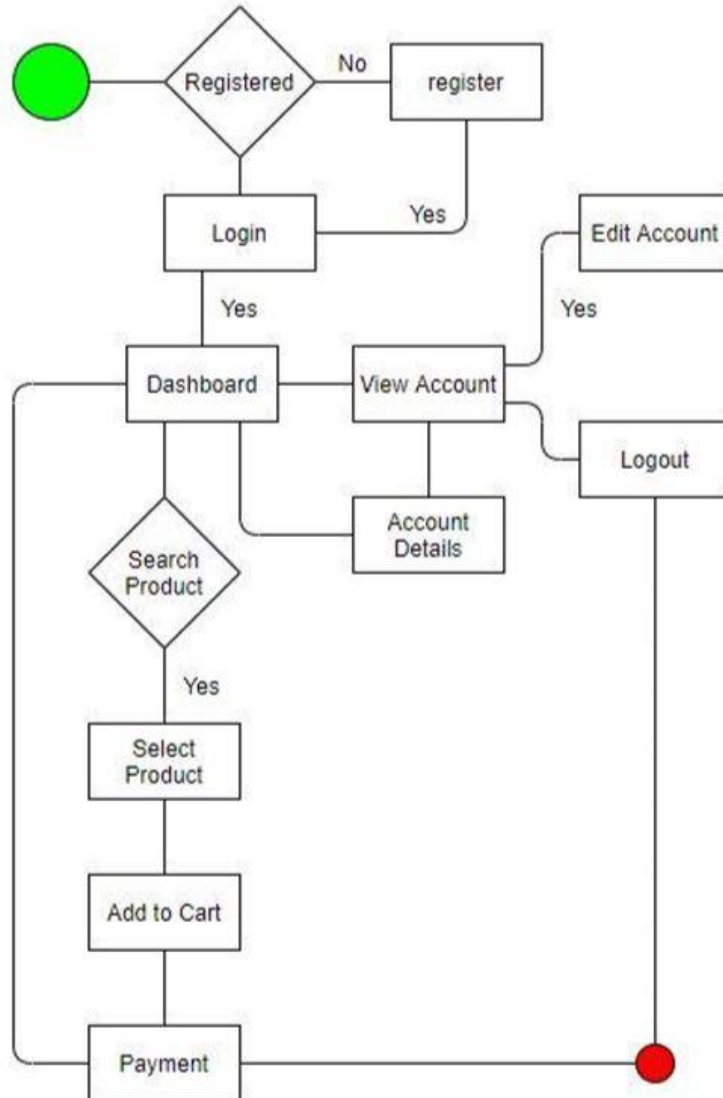


Figure 4.4: Activity diagram of PriyoShop

## 4.6 Class diagram of PriyoShop

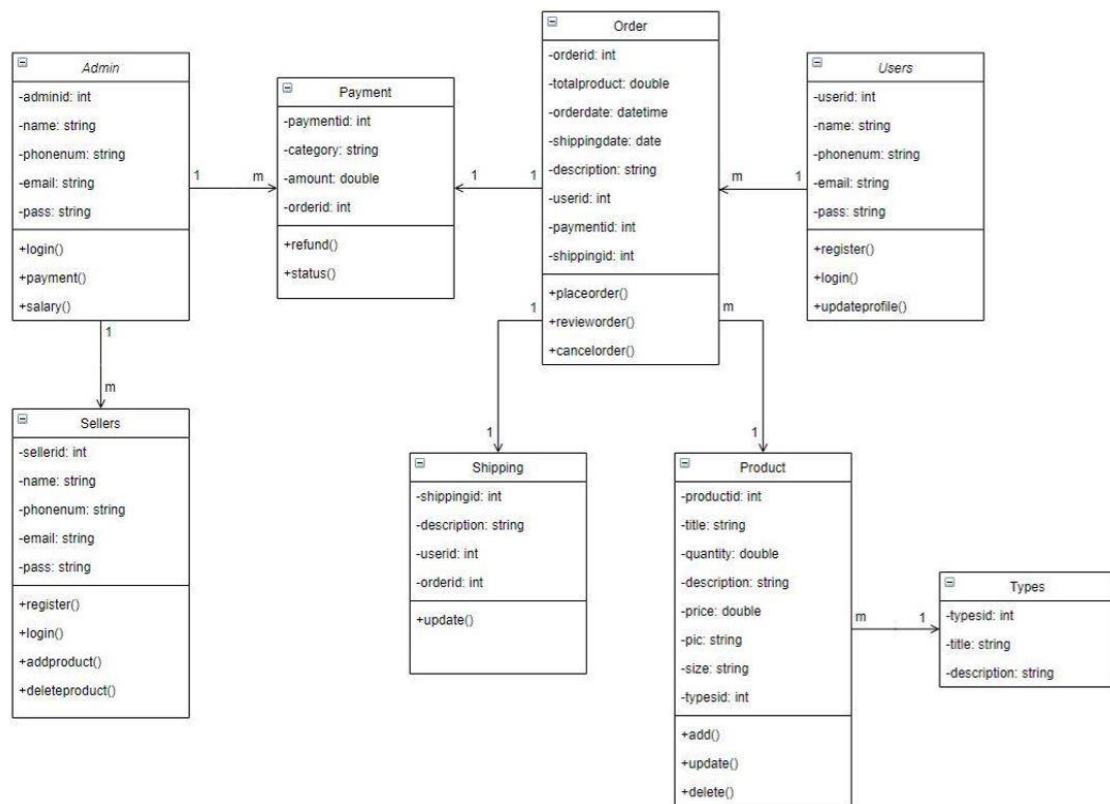


Figure 4.5: Class diagram of PriyoShop

## 4.7 ER diagram of PriyoShop

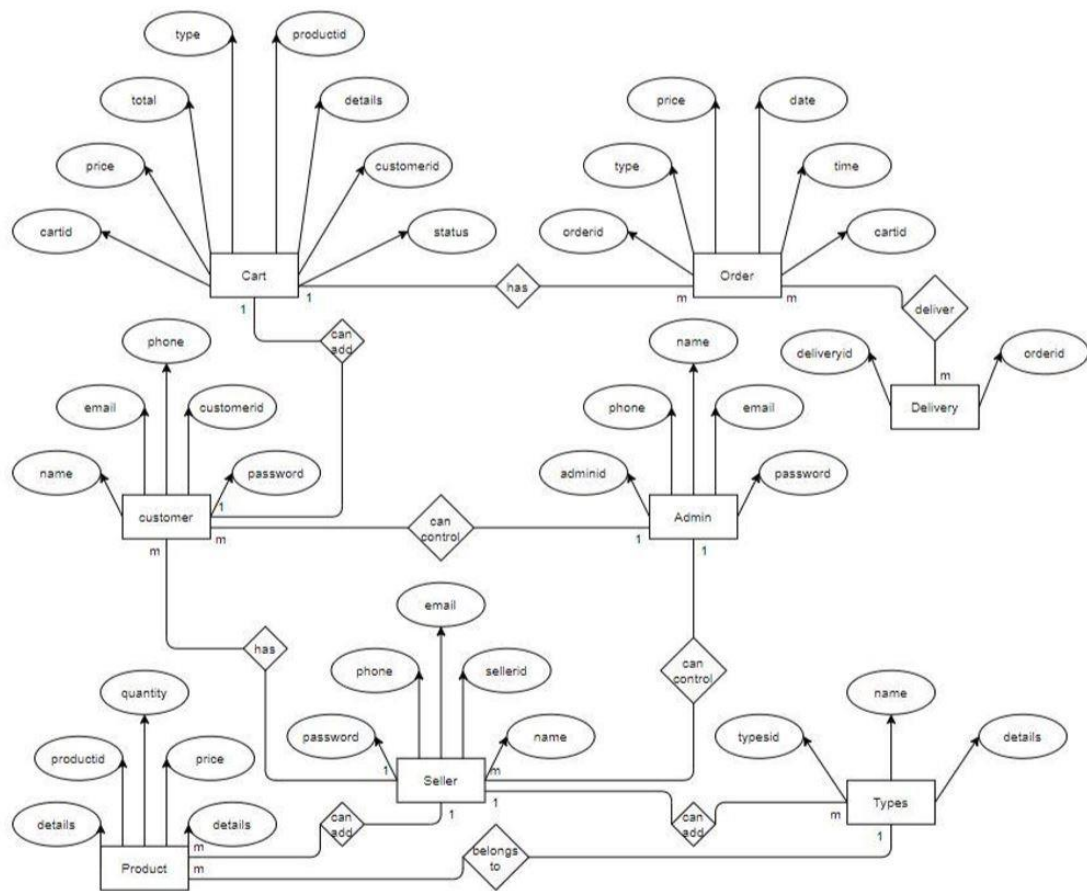


Figure 4.6: ER diagram of PriyoShop

## 4.8 Sequence diagram of PriyoShop

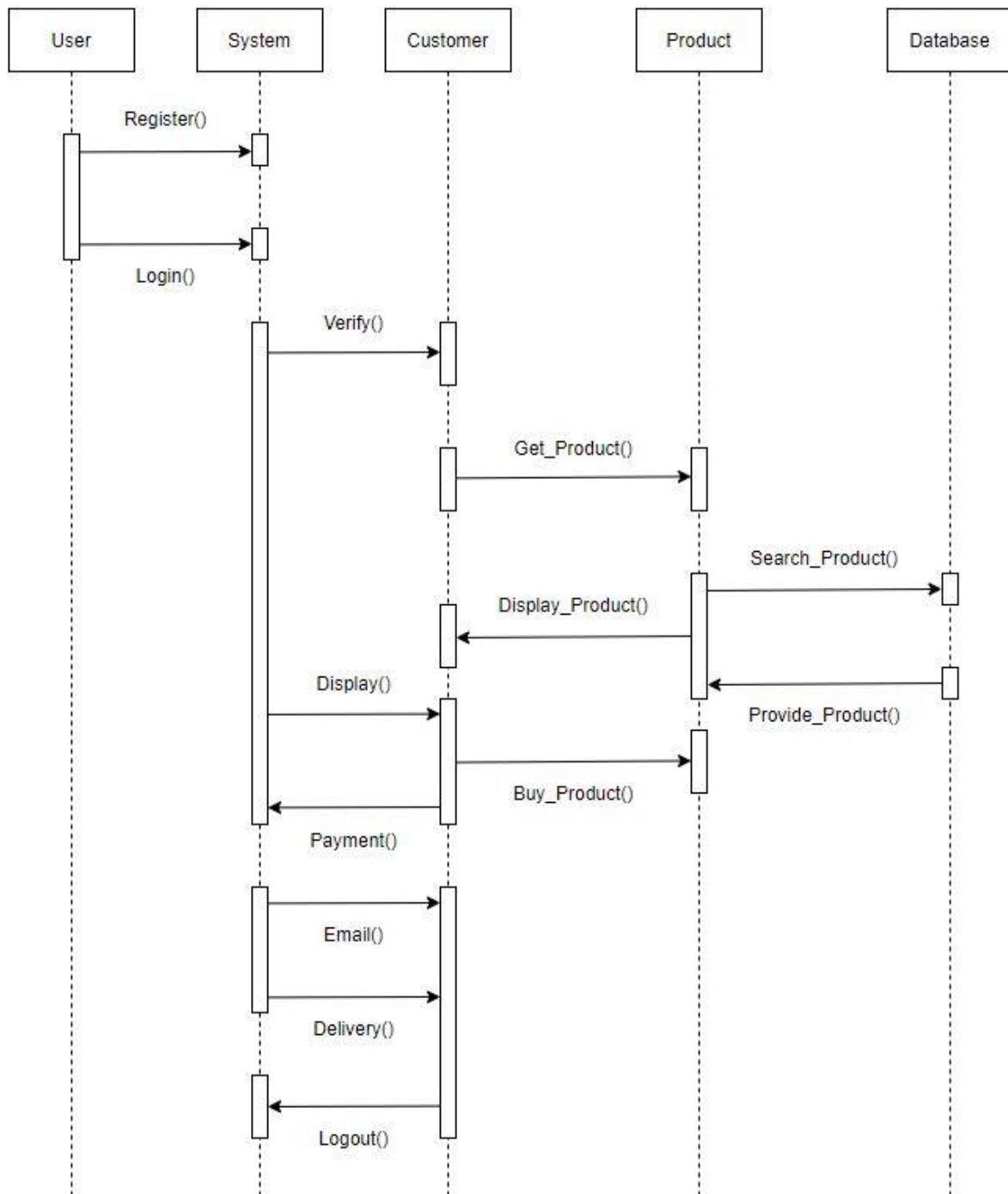


Figure 4.7: Sequence diagram of PriyoShop

# CHAPTER 5 IMPLEMENTATION

## 5.1 Frontend Design

Frontend design is the procedure for making up a user interface by writing the HTML, CSS and presentational JavaScript code.

### 5.1.1 Frontend Design for Buyers

#### User Dashboard

The screenshot displays the user dashboard for PriyoShop. The interface includes a sidebar with the user's name 'NAMUL' and a 'Dashboard' link. The main content area is divided into three sections:

- Payment Verification Pending Orders:** A table with columns: Order Date, Order ID, No of Products, Trx ID, Note, Status, and Action. It shows 'No data available in table' and 'Showing 0 to 0 of 0 entries'.
- Payment Verified Orders:** A table with columns: Order Date, Order ID, No of Products, Total Amount, Total Paid, Trx ID, Note, Status, and Action. It contains one entry:

Order Date	Order ID	No of Products	Total Amount	Total Paid	Trx ID	Note	Status	Action
2020-09-18 17:59:39	31	1	2500	2500	order-1600451979	N/A	Payment Verified	<a href="#">View Details</a>
- Processed Orders:** A table with columns: Order Date, Order ID, No of Products, Total Amount, Total Paid, Trx ID, Note, Status, and Action. It contains two entries:

Order Date	Order ID	No of Products	Total Amount	Total Paid	Trx ID	Note	Status	Action
2020-09-18 17:41:09	30	1	1200	1200	order-1600450869	N/A	Order Processed:Full	<a href="#">View Details</a>
2020-09-17 19:05:20	29	7	8400	8400	order-1600368520	N/A	Order Processed:Full	<a href="#">View Details</a>

Figure 5.1: User Dashboard of PriyoShop

## Homepage

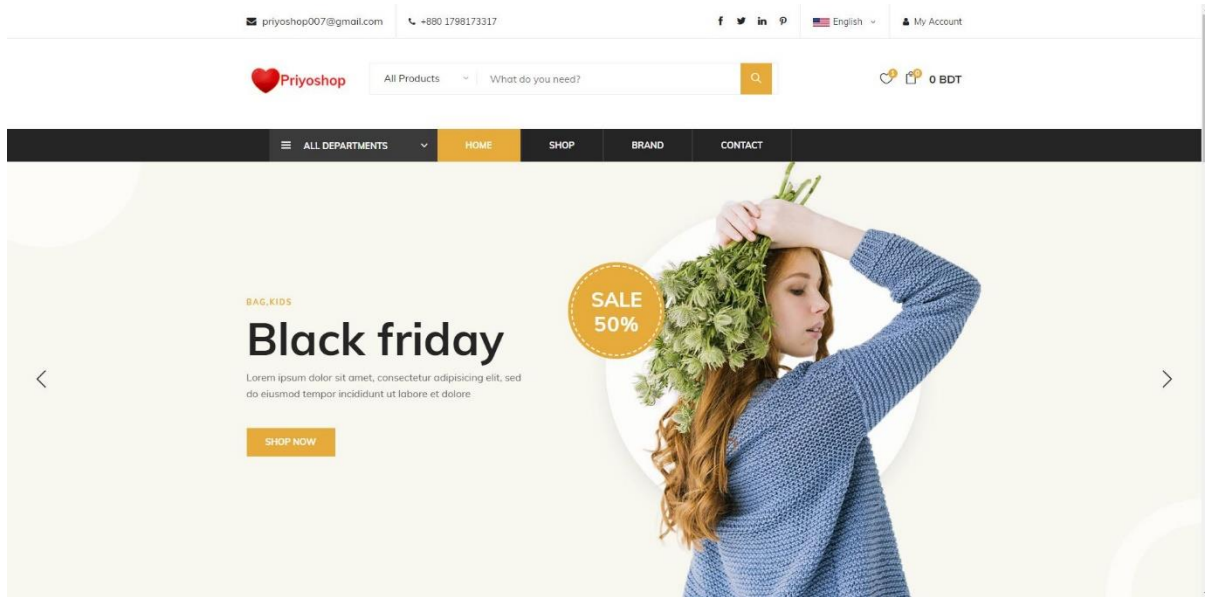


Figure 5.2: Homepage of PriyoShop

## Shop-page

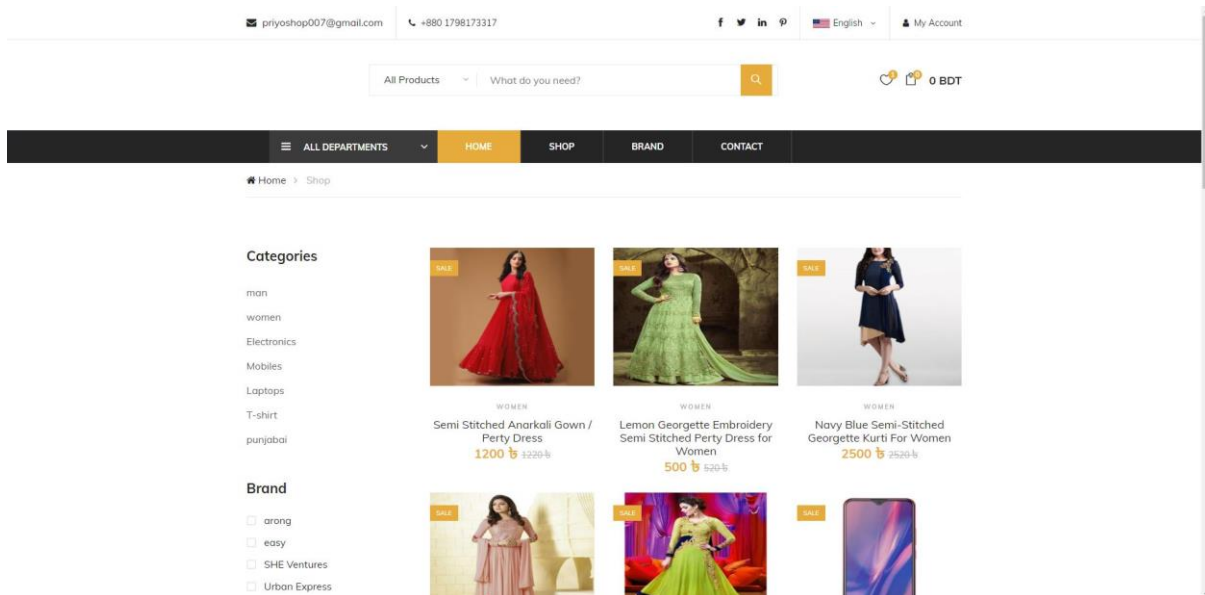


Figure 5.3: Shop-page of PriyoShop

## About

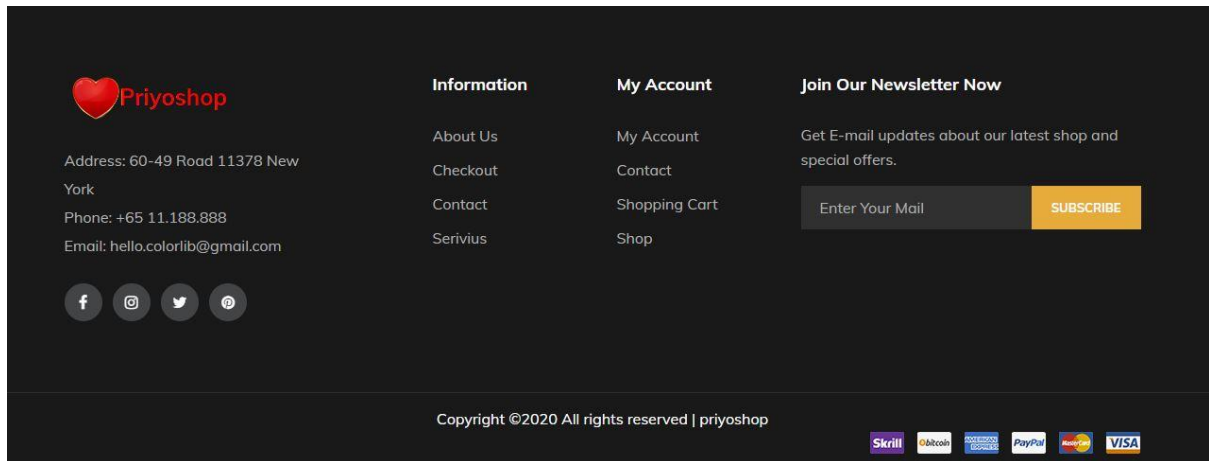


Figure 5.4: About of PriyoShop

## Review-page of Priyoshop

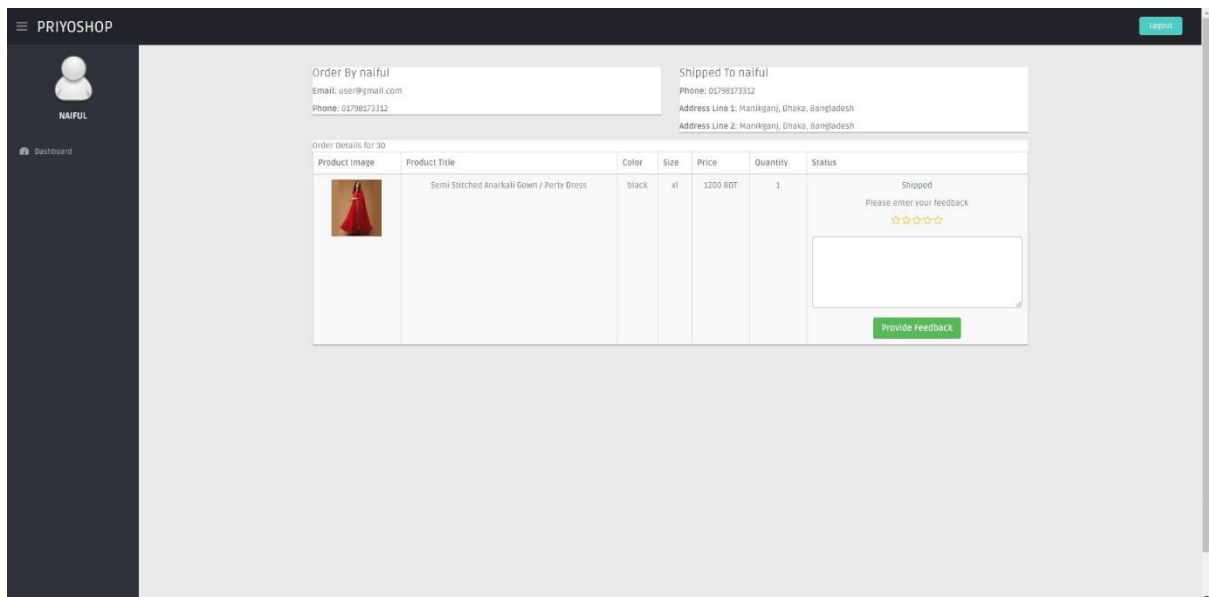


Figure 5.5: Review-page of PriyoShop



## Order details

Order By naiful  
Email: user@gmail.com  
Phone: 01798173312

Shipped To naiful  
Phone: 01798173312  
Address Line 1: Manikganj, Dhaka, Bangladesh  
Address Line 2: Manikganj, Dhaka, Bangladesh

Order details for 30

Product image	Product Title	Color	Size	Price	Quantity	Status
	Semi Stitched Anarkali Gown / Party Dress	black	xl	1200 BDT	1	Completed ★★★★★ Excellent service and product.

Figure 5.6: Order details of PriyoShop

## Billing-page

priyoshop007@gmail.com +880 1798173317 English My Account

All Products What do you need? 2500 BDT

ALL DEPARTMENTS HOME SHOP BRAND CONTACT

**BILLING DETAILS**

Name \*  
naiful

Address \*  
Apartment, suite, unit etc. (optional)

Email Address \* Phone \*  
user@gmail.com 01798173312

SHIP TO ANOTHER PERSON?

Order Notes  
Notes about your order. e.g. special notes for delivery.

**YOUR ORDER**

PRODUCT	TOTAL
Navy Blue Semi-Stitched Georgette Kurti For Women x 1	2500
CART SUBTOTAL	2500 BDT
<b>ORDER TOTAL</b>	<b>2500 BDT</b>

**Bkash**  
Make your payment directly into our bank account. Please use your Order ID as the payment reference. Your order won't be shipped until the funds have cleared in our account.

**DBBL**

**Nagad**

Figure 5.7: Billing-page of PriyoShop

## Order placed

The screenshot displays the PriyoShop dashboard for a user named NAFUL. The dashboard is divided into three main sections for order management:

- Payment Verification Pending Orders:** This section shows a table with columns: Order Date, Order ID, No of Products, Trx ID, Note, Status, and Action. It currently displays "No data available in table".
- Payment Verified Orders:** This section shows a table with columns: Order Date, Order ID, No of Products, Total Amount, Total Paid, Trx ID, Note, Status, and Action. It contains one entry:
 

Order Date	Order ID	No of Products	Total Amount	Total Paid	Trx ID	Note	Status	Action
2020-09-18 17:59:39	31	1	2500	2500	order-1600451979	N/A	Payment Verified	<a href="#">View Details</a>
- Processed Orders:** This section shows a table with columns: Order Date, Order ID, No of Products, Total Amount, Total Paid, Trx ID, Note, Status, and Action. It contains two entries:
 

Order Date	Order ID	No of Products	Total Amount	Total Paid	Trx ID	Note	Status	Action
2020-09-18 17:41:09	30	1	1200	1200	order-1600450869	N/A	Order Processed.Full	<a href="#">View Details</a>
2020-09-17 19:05:20	29	7	8400	8400	order-1600369520	N/A	Order Processed.Full	<a href="#">View Details</a>

Figure 5.8: Order placed of PriyoShop

## 5.1.2 Frontend Design for Sellers

### Category Management

The screenshot displays the PriyoShop seller dashboard for a user named seller. The dashboard features a sidebar with navigation options: Dashboard, Shop Management, Category, Brand, Product, and Order. The main content area is split into two parts:

- Add Category Form:** This form includes a text input for "Name", a dropdown menu for "Category" (currently showing "Chosse Parent Category"), and a "Store Category" button.
- Category List Table:** This table displays a list of categories with columns: ID, Name, Parent Category, and Action. Each row includes "Edit Category" and "Delete Category" buttons.
 

ID	Name	Parent Category	Action
2	man	N/A	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
3	women	N/A	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
4	Electronics	N/A	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
5	Mobiles	Electronics	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
6	Laptops	N/A	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
9	T-shirt	man	<a href="#">Edit Category</a> <a href="#">Delete Category</a>
10	punjabai	man	<a href="#">Edit Category</a> <a href="#">Delete Category</a>

Figure 5.9: Category Management of PriyoShop

## Brand Management

The screenshot displays the 'Brand Management' section of the PriyoShop seller dashboard. On the left, a sidebar lists navigation options: Dashboard, Shop Management, Category, Brand, Product, and Order. The main content area is divided into two parts. On the left, there is a form titled 'Add Product Brands' with input fields for 'Name' and 'Image' (with a 'Choose File' button and 'No file chosen' text), and a 'Store Brand' button. On the right, a table lists existing brands. The table has columns for ID, Name, Brand Image, and Action. The 'Action' column contains 'Delete Brand' and 'Edit Brand' buttons for each entry.

ID	Name	Brand Image	Action
26	arong		Delete Brand Edit Brand
25	easy		Delete Brand Edit Brand
24	SHE Ventures		Delete Brand Edit Brand
22	Urban Express		Delete Brand Edit Brand
20	No Brand		Delete Brand Edit Brand
16	asus		Delete Brand Edit Brand
13	HP		Delete Brand Edit Brand

Figure 5.10: Brand Management of PriyoShop

## Product Management

The screenshot displays the 'Product Management' section of the PriyoShop seller dashboard. On the left, a sidebar lists navigation options: Dashboard, Shop Management, Category, Brand, Product, and Order. The main content area is a table listing products. The table has columns for ID, Product Name, Brand, Company, Category, Price, Available Quantity, Colors, Product Model, Product Image, and Action. The 'Action' column contains 'Edit' and 'Delete' buttons for each entry.

ID	Product Name	Brand	Company	Category	Price	Available Quantity	Colors	Product Model	Product Image	Action
2	Semi Stitched Anarkali Gown / Party Dress	Labonno	labonno	women	1200	12	white,black,green,red	SKU120256006		Edit Delete
3	Lemon Georgette Embroidery Semi Stitched Party Dress for Women	Next Kitchen	Square	women	500	1	bas	BDSKU120881100_BD-104037118		Edit Delete
4	Navy Blue Semi-Stitched Georgette Kurti For Women	Comfort	seador	women	2500	12	white,black,green	SKU127323484_BD-1047325037M		Edit Delete
5	Light Pink Georgette Semi Stitched Party Dress for Women	Fashion Circle	seador	women	2498	12	silver,black	SKU1111154920_		Edit Delete
6	Light Lime Georgette Semi Stitched Party Dress for Women	Light Lime	derthh	women	2398	12	Belge,Black,white,Blue,grey	SUK1567551		Edit Delete
8	Vivo Y11 - 3GB/32GB Smartphone	vivo	vivo	Mobiles	18999	12	silver,black	Vivo Y11 - 3GB/32GB		Edit Delete

Figure 5.11: Product Management of PriyoShop

## Add Product

Figure 5.12: Add Product page of PriyoShop

## Order Management



Order Date	Product Details	Specifications	Notes & Status	User Details	Action
18-09-2020	<p>Title: Navy Blue Semi-Stitched Georgette Kurti For Women</p> 	<p>Color: black</p> <p>Size: xl</p> <p>Price: 2500 BDT</p> <p>Quantity: 1</p>	<p>Note: N/A</p> <p>Status: Order Placed</p>	<p>Name: naiful</p> <p>Phone: 01798173312</p>	<p>Confirm Order</p> <p>Cancel Order</p>
29-08-2020	<p>Title: Light Pink Georgette Semi-Stitched Party Dress for Women</p> 	<p>Order ID: 25</p> <p>Color: black</p> <p>Size: sm</p> <p>Price: 2498 BDT</p>	<p>Note: N/A</p> <p>Status: Completed</p>	<p>Name: mishu</p> <p>Phone: 01726270549</p>	<p>Completed</p> <p>★★★★★ nice product</p>

Figure 5.13: Order Management of PriyoShop

### 5.1.3 Frontend Design for Admin

#### Admin Dashboard

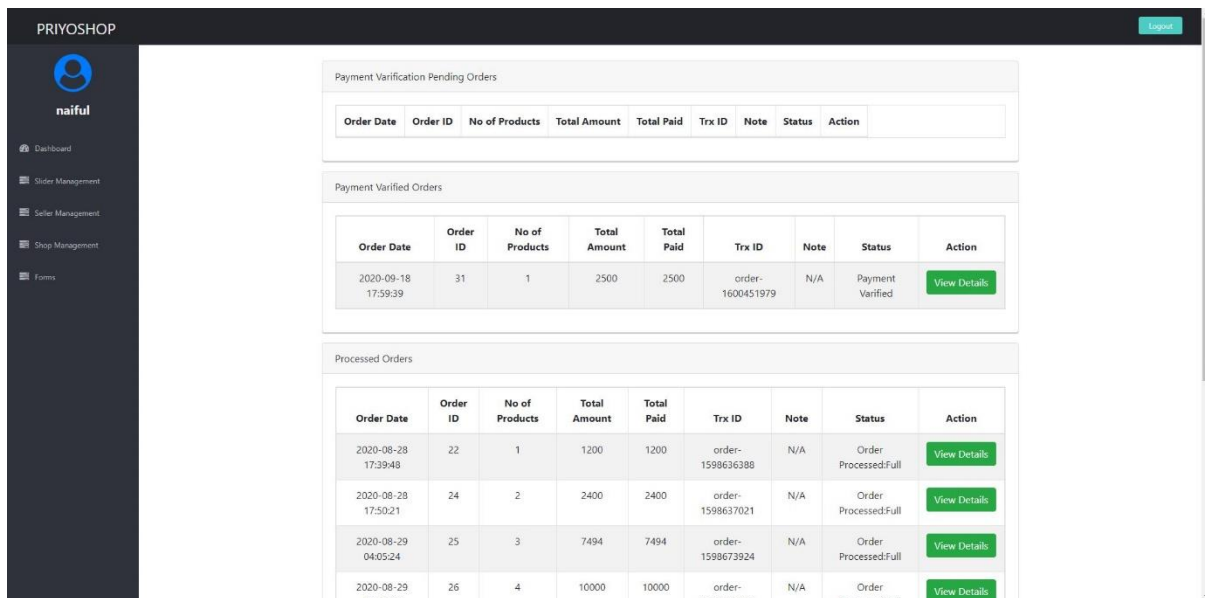


Figure 5.14: Admin Dashboard of PriyoShop

#### Slider Management

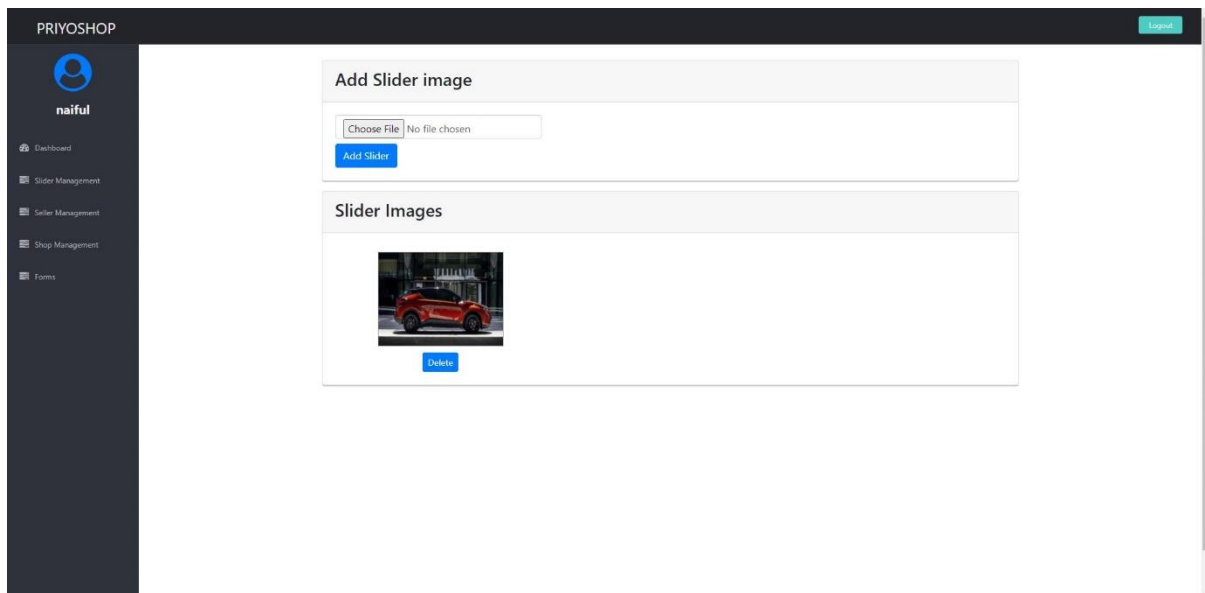


Figure 5.15: Slider Management of PriyoShop

## Seller Request Management

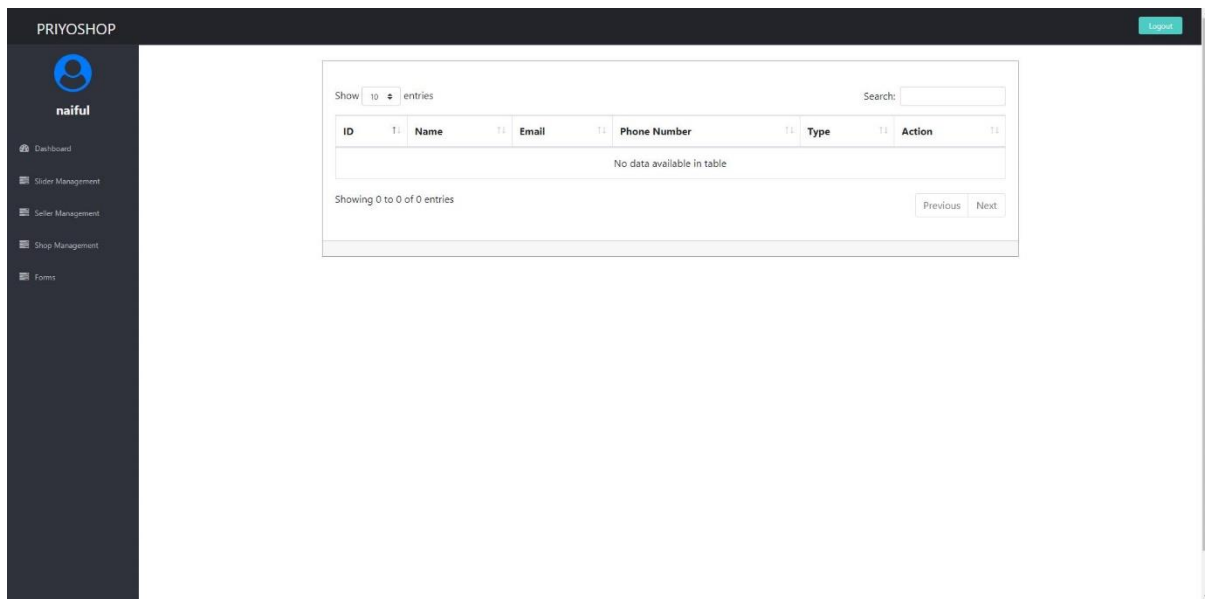


Figure 5.16: Seller request Management of PriyoShop

## Seller Management

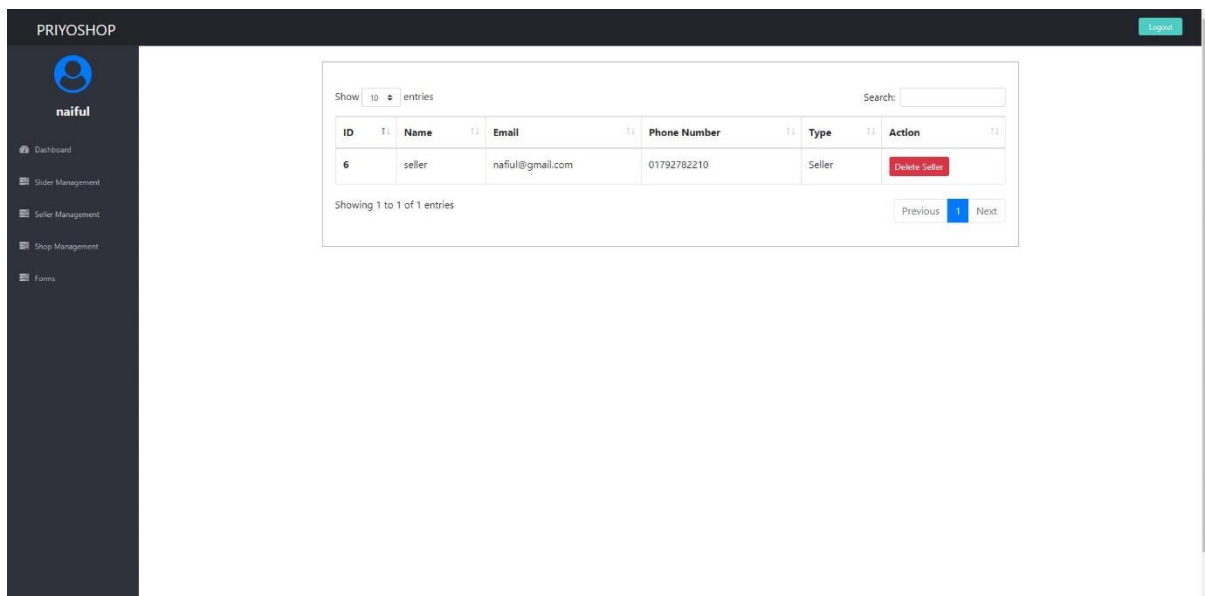


Figure 5.17: Seller Management of PriyoShop

## Shop Request Management

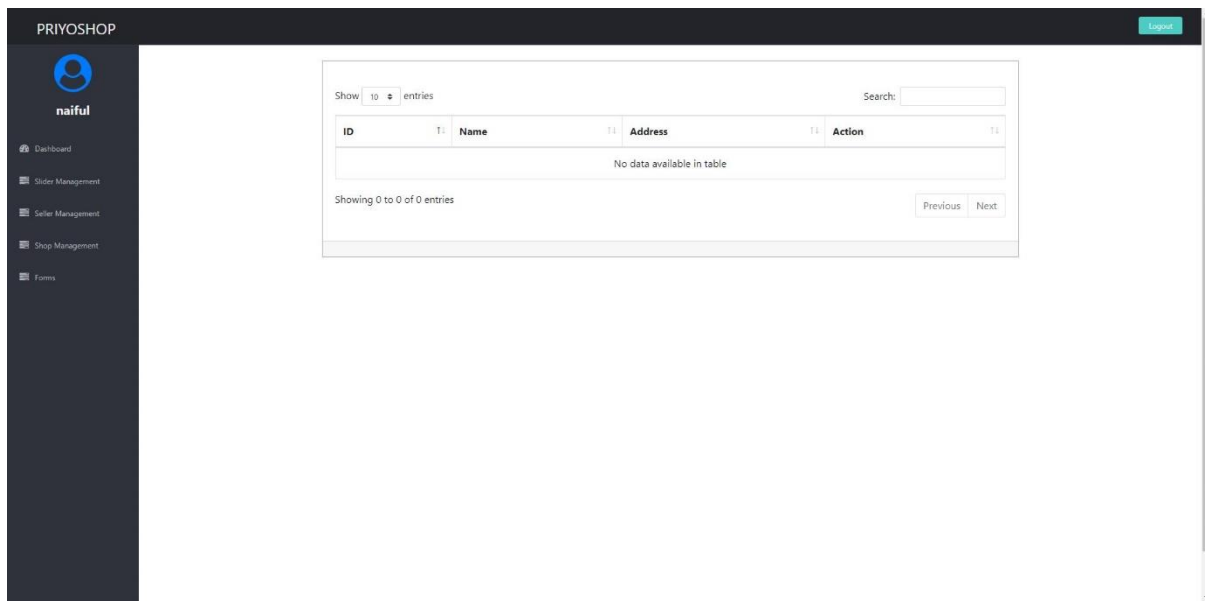


Figure 5.18: Shop Request Management of PriyoShop

## Shop Management

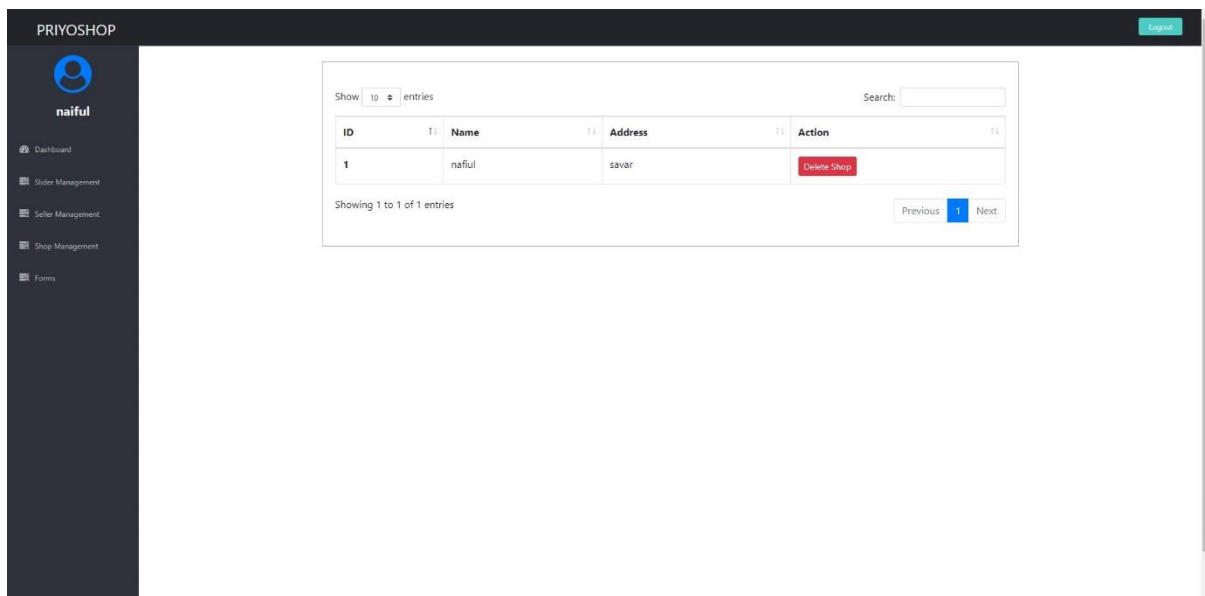


Figure 5.19: Shop Management of PriyoShop

## 5.2 Backend Design

The part of a website which can't be seen by users is referred to as backend. In a web browser everything that happens before the page is displayed is part of the backend and designing those parts for displaying the page is referred as backend design.

### Database

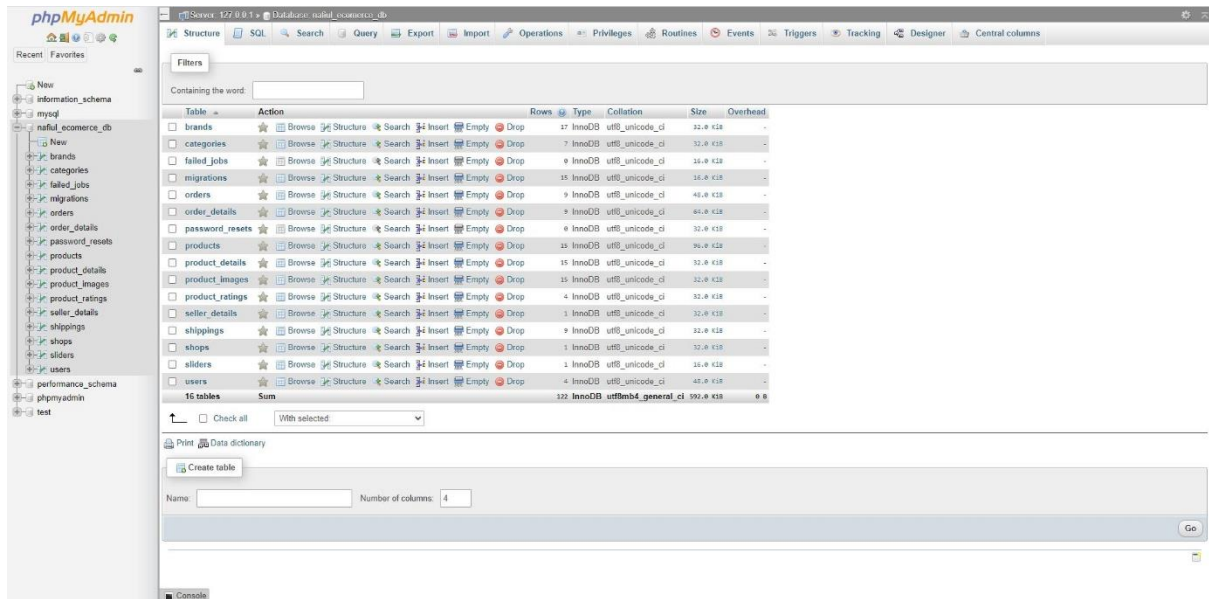


Figure 5.20: Database of PriyoShop



## Seller Registration page

priyoshop Login Register Seller Register

Register

Name

E-Mail Address

Phone Number

Gender  Male  Female

Date of Birth

Password

Confirm Password

Figure 5.21: Seller Registration page of PriyoShop

## User Registration page

priyoshop Login Register Seller Register

Register

Name

E-Mail Address

Phone Number

Gender  Male  Female

Date of Birth

Password

Confirm Password

Figure 5.22: User Registration page of PriyoShop

## Login page

priyoshop Login Register Seller Register

Login

E-Mail Address

Password

Remember Me

[Login](#) [Forgot Your Password?](#)

Figure 5.23: Login page of PriyoShop

## CHAPTER 6

### TEST AND EVALUATE

#### 6.1 Test

In the testing phase we have checked this application for the bugs. When there are no bugs the application is ok but when we found any bugs then we have to use some procedure to fix these bugs.

#### 6.2 List of Tests

- Testing of Functionality
- Testing of Usability
- Testing of Interface
- Testing of Database
- Testing of Compatibility
- Testing of Performance
- Testing of Security

##### 6.2.1 Testing of Functionality

Testing of Functionality is the procedure of checking the links, forms, cookies and database connections.

Result of checking forms are normal including:

- If a required field is not filled up then there will be shown an error message.
- Checking of default values will be double.
- Same information of the users will not be recorded in the database.

A small file that remembers the user information so that the user does not need to login again is referred to as cookie. It is as like as a session for the user. In the testing phase cookies are doing well.

- Deleting cache data will also delete cookies.

Testing of HTML and CSS:

- Checking the codes for syntax error.
- Making the color schemas readable.
- Checking the codes for compliance such as OASIS, W3C etc.

## 6.2.2 Testing of Usability

Usability testing is used for checking the errors of the navigation bar and the grammatical errors of a webpage. It is also used for checking if the pass is user-friendly or not.

### Testing of navigation:

In all of the devices and in different size of pages menus, links, buttons and other options should work properly.

### Testing of content:

- Checking of spelling mistakes and grammatical errors.
- An 'ALT' text will be shown if the image is missing.

## 6.2.3 Testing of Interface

Interface testing is used for checking the proper interaction between the user input value and the database server. It confirms that the application is not showing any error messages.

Testing of Interface is divided into three categories:

- **Application:** If the user inputs the valid information then there will be no error message but if the user inputs an invalid information the there will be an error message.
- **Web server:** Short of any service rejection requested by all application are managed by web server.
- **Database server:** Database server shows the exact result from the server by running a query.

## 6.2.4 Testing of Database

Testing of Database is the most important thing of any web-application. Testing of Database includes:

- Testing of Database maintains the data integrity in the time of CRUD operation in the database.
- When we run all the queries they will return the proper results.
- Shows the accuracy of the data by reading from the database.
- Checking of the response time of the queries executed in the database.

### **6.2.5 Testing of Compatibility**

Compatibility testing is used for checking the responsiveness in different devices. Testing of Compatibility includes:

#### **Testing of Browser Compatibility:**

All the programs will run the web-application similarly. This web-application will be responsive on various gadgets. Everything will work appropriately in an alternate program like Mozilla Firefox, Google Chrome, Opera etc.

### **6.2.6 Testing of Performance**

Checking of web pressure and web burden is referred to as execution testing. Web load testing checks that when some clients access a similar page simultaneously, the webpage can deal with the substantial burden or not. Checking the webpage that how it operates and responds during the pressure time is referred to as web pressure testing. Testing of Performance includes:

- Response time of the web-application will depend on the internet speed.
- Load time is decreased for the server side store empower.
- When a crash occurs due to peak load recovery of the web-application is checked.
- Due to maximum load sometimes the web-application crashes, for this type of event, how will our website recover from it.

### **6.2.7 Testing of Security**

Testing of Security is the principle certainty of any framework. Clients who are not registered can not get access to the interior pages. End clients can not get access to the administrator board. Testing of Security includes:

- For accessing secure pages users need to login first.
- Not all the documents are downloadable without appropriate access.
- User sessions will be automatically deleted if they will remain inactive for a long time.

## CHAPTER 7

### CONCLUSION AND FUTURE PLAN

#### 7.1 Conclusion

First of all time is a very important thing and now a days everyone is so busy with their daily life so that they don't have enough time to buy their daily needs. Also they don't have enough time for spending with their family. Our web-application helps you to buy your daily needs from anywhere and anytime without going to the market. You just need to visit our website and put your request in. Your cash and time both will be saved. For sellers our website will help you make your business greater. It will help both the users and the sellers to build a good relation among them.

#### 7.2 Future Plan

We will improve our security and make it stronger. In the basis of buyer's and seller's feedback we will search both the buyer's and the seller's information about any cheating. We will provide an improved integrate payment system. In the future we will add worldwide service. Also we add product delivery system in our website. In the future we will also use an improved API for location track for the development of the location tracking system of our website.

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