

**DESIGN AND DEVELOPMENT OF WEB APPLICATION: KHOLAHAT**

**BY**

**JANNATUL ISLAM**

**ID: 183-15-11924**

**SHRABANI GHOSH JUI**

**ID: 183-15-11929**

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

Supervised By

**Mr. Narayan Ranjan Chakraborty**

Assistant Professor

Department of CSE

Daffodil International University

Co-Supervised By

**Sah Md. Tanvir Siddiquee**

Assistant Professor

Department of CSE

Daffodil International University



**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**12 SEPTEMBER 2022**

## APPROVAL

This Project titled “Kholahat”, submitted by, **Jannatul Islam, ID:183-15-11924** and **Shrabani Ghosh Jui, ID:183-15-11929** 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 B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation will be held on **12 September 2022**.

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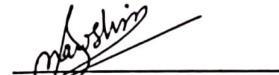
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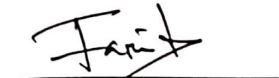
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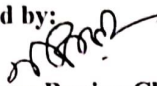
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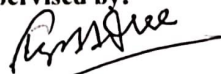
## DECLARATION

We hereby declare that this project has been done by us under the supervision of **Mr. Narayan Ranjan Chakraborty, Assistant Professor, 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 or diploma.

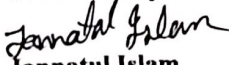
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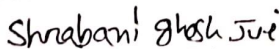
  
**Mr. Narayan Ranjan Chakraborty**  
Assistant Professor  
Department of CSE  
Daffodil International University

Co-Supervised by:

  
**Shah Md. Tanvir Siddiquee**  
Assistant Professor  
Department of CSE  
Daffodil International University

Submitted by:

  
**Jannatul Islam**  
ID: 183- 15-11924  
Department of CSE  
Daffodil International University

  
**Shrabani Ghosh Jui**  
ID: 183-15-11929  
Department of CSE  
Daffodil International University

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## **ABSTRACT**

This is a full documentation of our multi vendor's ecommerce site called "Kholahat". Our core motivation for this project is to promote our indigenous products and also bring back the lost glory of our native products. In our country domestic products are losing its market day by day to foreign products. This project will help to make our native products again to the people. On the other hand, our native artists are too much neglected. They do not get the actual price of their products. So, this project will also be helpful for our artists so that they can get their fair price of their products and can remove their economical insolvency. Besides, general people who want to use these kinds of products but cannot buy the products due to lack of availability. So our site will also be helpful for the people so that they can get their product easily and make the products available.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

Nowadays our native products are under threat. At that moment we should come forward and take necessary steps to recover our native products and its glory. For this reason, here we try to make an online platform by a multi-vendor e-commerce website where we want to create a market for our domestic products which will also be helpful for our native artists. Here we try to make a conciliation between the native tradition and the general people by using our site. In our project we use laraval for our framework and use PHP programming language for writing the code. The ecommerce site has a separate vendor panel for the authentic products of our 64 zilla's. Through our site we are trying to recover the lost reputation of our domestic products and its glory. On the other hand, this project will play a significant role in bringing back the financial solvency of our native artists.

our native artists. As for our native products, the condition of our native artists is also poor.

### 1.2 Motivation

At present the use of foreign products is increasing and our domestic products are losing its own tradition and glory. As a result, our domestic industry is losing both its demand and its market. At the same time, our native artists are also getting lost. They can't get the proper market and they can't get a fair price even if they can market in any way. For this we are trying to create a platform where we can find a suitable market for our domestic products and at the same time our native artists will get the suitable product price. In this way we will be able to bring back the lost glory of our indigenous heritage. And products. that we will be able to introduce our new generation to domestic products.

### 1.3 Objectives

- Local Handcrafts: Lakshmikanthan, Muslin cloth, Shital Pati, Pottery (Pots, Dolls, Toys, Portraits of Animal, Ornaments etc.), Folklore (Painted Pots), Things made of Cane (Chair, Wrap, Dining Table, Cradle, Dressing Table, Shelf, Divan, Bed, Sofa set etc.)
- Local Fruits
- Local Sweets
- Local Spices
- Others
- Branding the local Product.
- Create a platform for local worker
- Help local worker to get fair price
- Try to give back the lost glory to the native heritage and products.
- We are trying to create an online marketing platform for business to consumer (B To C).

### 1.4 Expected Outcome

Because we are trying to create a multi-vendor platform for our local product, this will help to rescue the popularity of our national product. It will introduce the local artist and seller with an online platform. It will represent the quality and the efficiency of our local worker and artist.

### 1.5 Project Management and Finance

This is the planning and organizing the project which executes the work in time and within budget. Employees, finances, technologies and creative work are the part of the process which might be a onetime initiative or continuous operation. Project management is connected with professions such as engineering and construction, as well as information technology (IT). Because these fields are involved with a complicated set of components which must be completed and integrated in a specific organized way to produce a functional product. As we know that the project is a multi-vendor e-commerce website of our authentic local product so the work of front end, back end and the database

are completed by the developing team. Because of user friendly design it is simple to maintain and customize.

## **1.6 Report Layout**

This project contains seven-chapter. They are Introduction, Background, Requirement Specification, Design Specification, Implementation and Testing, Impact on Society, Environment and Sustainability, Conclusion and Future Scope. In the first chapter there are the topics Introduction, Motivation, Objectives, Expected Outcomes, Project management and Finance, Report Layout. In the Second chapter we have entered Preliminaries/Terminologies, Related work, Comparative Analysis, Scope of the Problem and Challenges. In the third chapter we have discussed Business Processing Model, Requirement Collection and Analysis, Use Case Modeling and Description, Logical Data Model and Design Requirement. In the fifth chapter we discuss Implementation of Database, Implementation of Front-end Design, Testing Implementation, Test Results and Reports. In the sixth chapter we have entered our project's Impact on Society, Impact on Environment, Ethical Aspects and Sustainability plan. In the seventh chapter we have entered Discussion and Conclusion and the Scope for Further development

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 Preliminaries/Terminologies**

As our project is one commerce site for our authentic local product so it will be a B to C marketing platform. Here we create three vendors for administration, consumer and seller. In this project we use Larval blade template and PHP as programming languages.

Or

The terminologies used as follows:

- HTML
- PHP
- CSS
- Laraval blade template
- Apache server
- MySQL database

#### **2.2 Related Works**

There are some other e-commerce sites which also sell local products but there is no e-commerce site like our e-commerce site. Because in this project we work with the authentic products of 64 zilla for the first time. Here are some others e-commerce website which are similar to our site are given below:

- Market Bangla
- Hutbazar
- Kreshi Market
- Meena Click
- Rajshahi Bazar
- Taza Bazar
- Ghore Bazar

#### **2.3 Comparative Analysis**

The work which is related to the project is not totally similar but has some similarities. There are many differences in our project which are not in other projects. Generally,

other sites are working with individual products or areas, but in this project our main unique characteristic is here we are working with the authentic product of all 64 zilla in Bangladesh. We have already shown some related work in the previous paragraph. In this paragraph we discuss the comparison between our project and the related work. Here we have the specific authentic product from every area of our country. This project will be helpful to provide the products of one area to another area easily.

## **2.4 Scope of the Problem**

In our country the glory of our domestic products is in danger. We are losing our native products and our traditions. Besides, the use of foreign products is increasing day by day. In the market most of the products are imported from other countries where our domestic products do not get proper space to compete with the foreign products. For this reason, our native artists are also in danger. They do not get their proper wages also. That is why we are trying to create an online marketing platform for our native products. This is a multi-vendor e-commerce website. Here we gather the products of all area of Bangladesh. It will Spread the market for our local products and also help the local artists to get their proper wages. Besides, it is also a problem to get an authentic product of an area in another area. So, by this project we can also solve this problem and provide the product of one area to another area easily.

## **2.5 Challenges**

We have faced some challenges to complete this project. There are two types of challenges while working on this project. They are Development purposes and Working purposes.

### **2.5.1 Development Purpose**

To build up this project we have to learn Larval, PHP, MySQL. It was a great challenge for us to learn these and make this project. Here Larval is used for the framework and as a programming language we use PHP. For databases we use MySQL. At the beginning



Laravel framework and PHP language was totally new for us so it was a great challenge for us to assume this thing and also get interrupted in the step of working.

### **2.5.2 Working Purpose**

In our project we are working on 64 zilla of Bangladesh so we have to collect the information and data about the authentic product of every area. This Collection of huge data was a great challenge for us at the beginning of the project. We have to collect the pictures and price of the product also. Besides, ensuring the quality of the product is also a challenge for us. To collect the vendor for our project is also a challenge for us. In our product segments there are some products which are perishable products. To preserve these products is a tough challenge for us. We will also face some challenges to deliver the product in a long distance.

## **CHAPTER 3**

### **REQUIREMENT SPECIFICATION**

#### **3.1 Business Processing Model**

The main target of this project is to build up a brand of local products. That is the main goal of this online marketing platform named “Kholahat”. In this project we will make our profit from the percentage of the product's price and from the delivery charge. In our website we have three panels for three types of users. One is for Admin, then for vendors and the other one is for customers. For each admin we provide a personal account where he/she can log in by his/her username and password. For the vendors and customers, we provide a separate registration form where they can create their own account with their personal username and password. Then they can log in their account by the username and password. The vendors can update their products, product's price and quantity of products by their account. Then the product and its details will show in the home page. The customer can find out their desire product, can order these products and also purchase it from the home page by their account. The admins will take the record of product's update, quantity of products, the order of products, purchase of the customer. They will also observe the delivery of the products in time and with the good quality of the product.

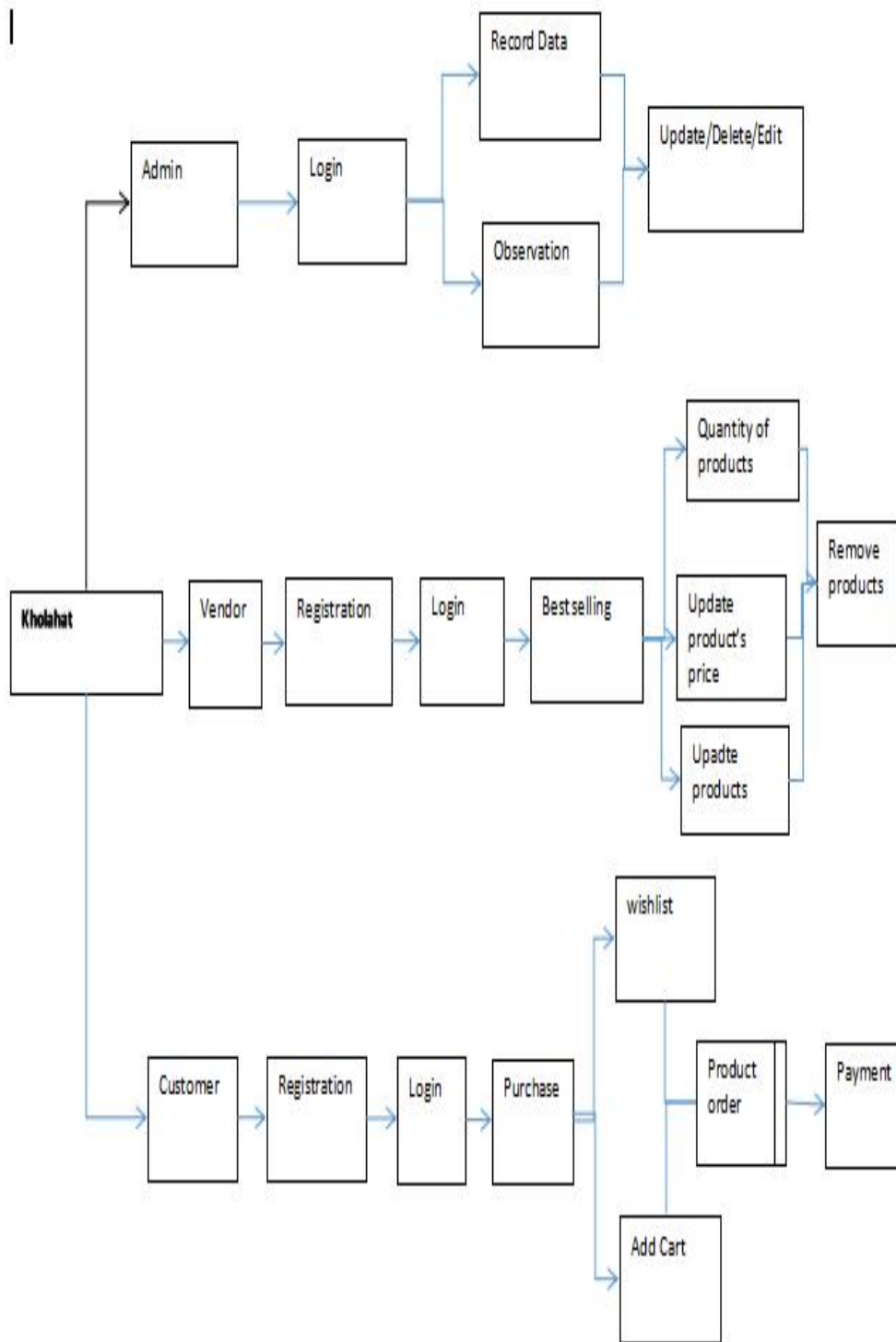


Figure 3.1: Business processing Model

## 3.2 Requirement Collection and Analysis

### Software Requirements

- ❖ Visual Studio: Microsoft Visual Studio is an IDE made by Microsoft. It gives tools for code writing, editing, debugging, testing.
- ❖ XAMPP: XAMPP is a software distribution which provides MySQL database, Apache web server and Perl. Here we use XAMPP for Apache server and MySQL database.

### Hardware Requirements:

- ❖ Operating System: Windows
- ❖ Computer configuration:
  - RAM- 8GB (min)
  - SSD - 120GB (min)
- ❖ Highly configured camera

## 3.3 Use Case Modeling and Description

A use case model is a graphical description of the proposed functionality of a new system. It describes system analysis to identify, clarify and organize system requirements. Figure 3.2 shows the use case of the website.

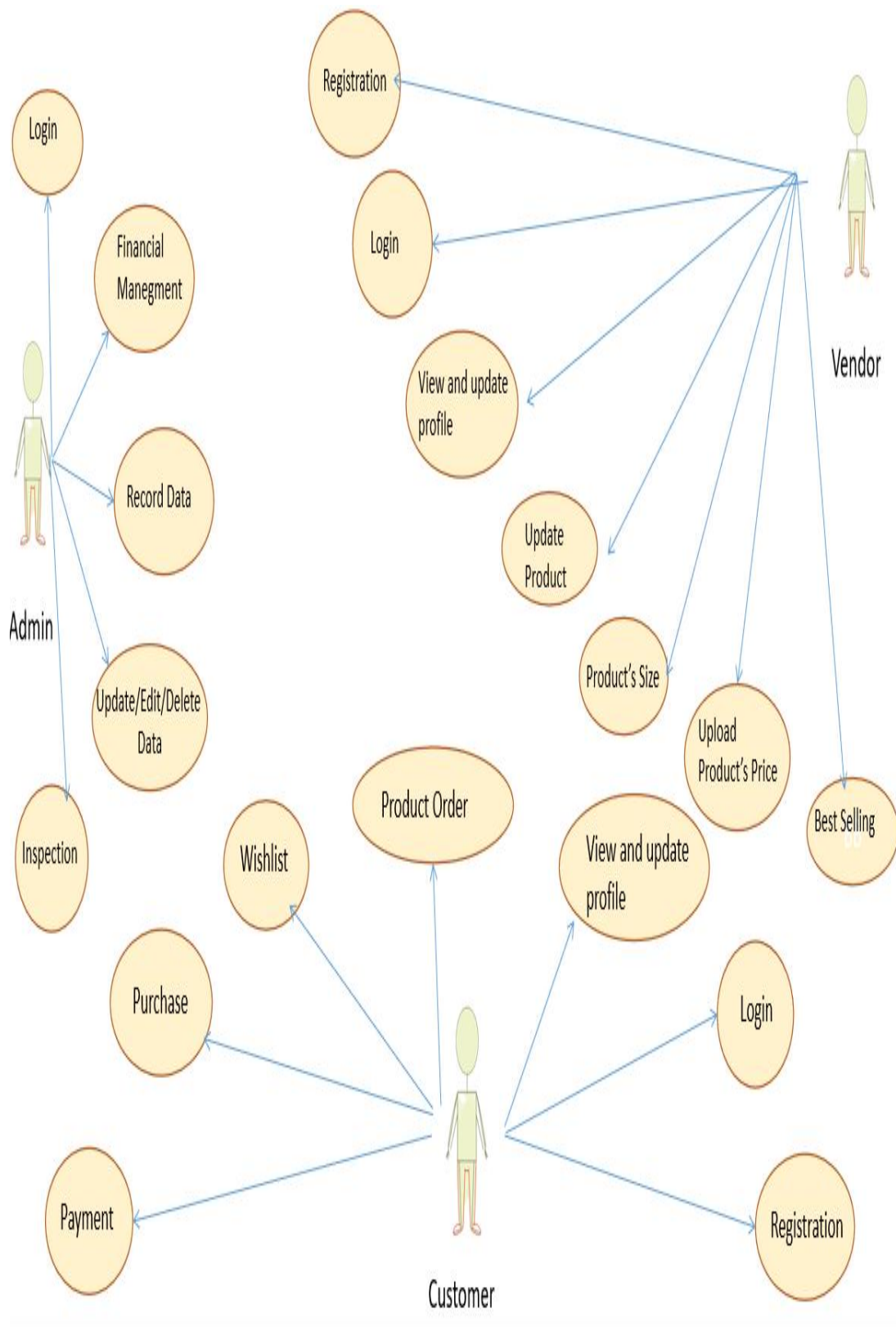


Figure 3.2: Use Case Model Diagram

**Use case details:**

Table 3.1: Use case of Record Data.

Here, the admin can record the data and also can update and remove data

Use Case Name	Record Data
Use Case Details	Collection of data and make the data secure.
Pre-condition	Login
Actor	Admin
Post- Condition	

Table 3.2: Use case of Financial Management

Here, admin can control the financial work and also give the payment of vendor

Use Case Name	Financial Management
Use Case Details	Collect the payment from customer and provide it to the vendor
Pre-condition	Login
Actor	Admin
Post- Condition	

Table 3.3: Use Case of Inspection

Here the admin can inspect the all over view of our site and it's work

Use Case Name	Inspection
Use Case Details	Inspect about the quality of the product and delivery it in time.
Pre-condition	Login
Actor	Admin
Post- Condition	

Table 3.4: Use case of Best Selling

Here, vendor can check their best selling products and can store the record.

Use Case Name	Best selling
Use Case Details	To observe which product is selling good.
Pre-condition	Registration
Actor	Vendor
Post- Condition	Login

Table 3.5: Use case of Upload Products,

Here the vendor can upload the product and can update product's details

Use Case Name	Upload products
Use Case Details	Upload the product as it's supply, it can be bulk and normal.
Pre-condition	Registration
Actor	Vendor
Post- Condition	Login

Table 3.6: Use case of View and Update Profile

Here the vendors and customers view their profile page and can update their information.

Use Case Name	View and Update Profile
Use Case Details	Vendor and customer can view and update their profile
Pre-condition	Registration
Actor	Vendor and Customer
Post- Condition	Login



### 3.4 Logical Data Model



Figure 3.3: Logical Data Model

There are four tables needed to design the database of our project. The tables are Admin, Vendor, Customer and Products. The attributes of the tables are name, email, password, record data for Admin, name, email, phone number, password, selling history for Vendor, name, email, phone number, password. Order record for customer, picture, price, quantity for Products. All the tables are independent. Here we design our database for the information of products, vendors, customers and selling.

### 3.5 Design Requirement

XAMPP and MySQL database to design the project. XAMPP is a free and open-source cross platform which provides us with a local web server on our computer. We use the MYSQL database for our project where we store our data and can use this for our project.

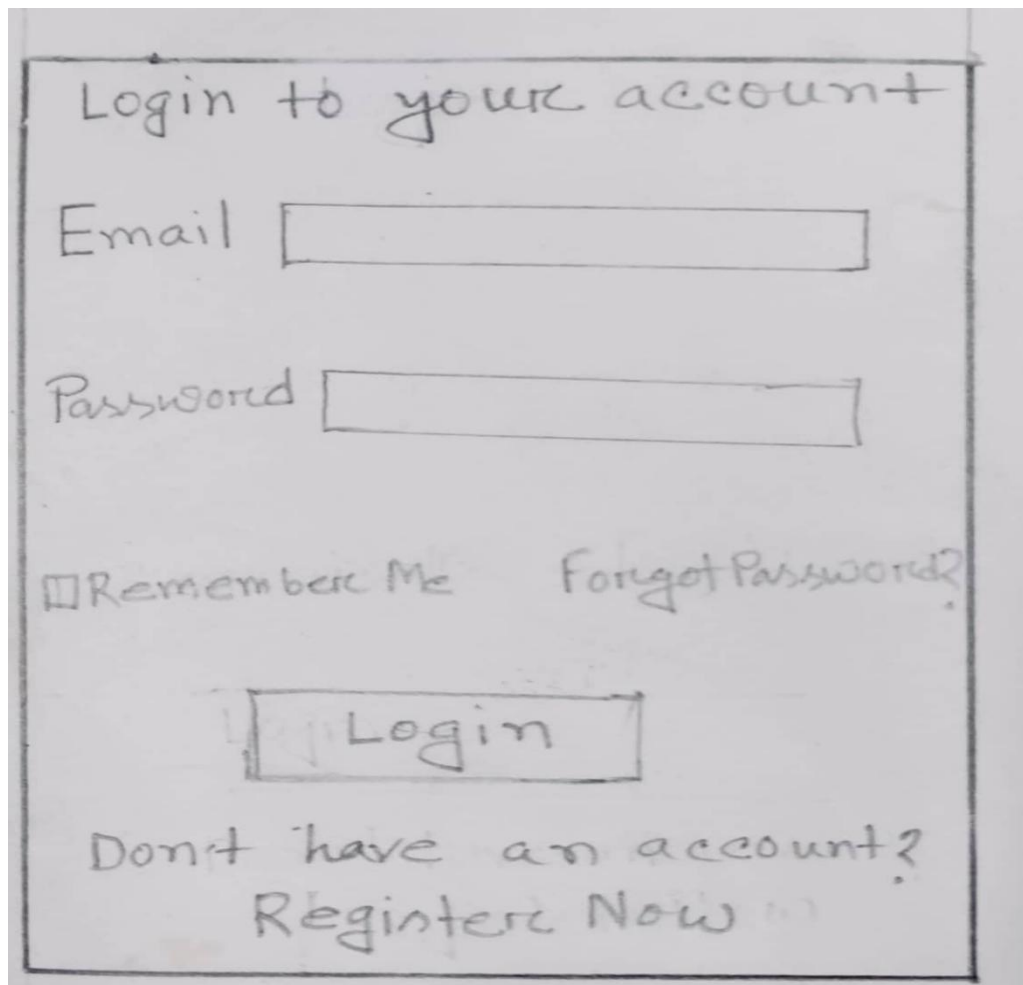
## Chapter 4

### DESIGN SPECIFICATION

#### 4.1 Front-End Design

Front end is the part which a client sees on a site or applications. It's also called "User Interface" or "User Interface" may be picture, text field, format etc. It's also made our site look great, build the website load faster, and increase responsiveness. Here are the hand drawn GUIs of the front-end design of our project.

- ❖ Here is the login page for admin, vendor and customer.



A hand-drawn sketch of a login page. The page is enclosed in a rectangular border. At the top, it says "Login to your account". Below this, there are two input fields: "Email" and "Password". To the left of the "Password" field is a checkbox labeled "Remember Me". To the right of the "Password" field is the text "Forgot Password?". Below these elements is a large rectangular button labeled "Login". At the bottom of the page, it says "Don't have an account? Register Now".

Figure 4.1: Login Page

❖ This is the page to create a profile for Admin.

The image shows a hand-drawn form titled "Profile" enclosed in a rectangular border. The form contains the following fields and elements:

- Name:** A text input field.
- Email:** A text input field.
- New Password:** A text input field.
- confirm Password:** A text input field.
- Avatar (90x90):** A label followed by a "Browse" button and an empty file selection box.
- Save:** A large button at the bottom right of the form.

Figure 4.2: Admin Profile

- ❖ This is the page of create an account for customer and vendor.

A hand-drawn wireframe of a 'Create an account' form. The form is enclosed in a rectangular border and contains the following elements from top to bottom: a title 'Create an account', four input fields labeled 'Name', 'Email', 'Password', and 'Confirm password', a checkbox with the text 'By signing up you agree with our terms and conditions', a large rectangular button labeled 'Create Account', and a link 'Already have an Account Login.'.

Figure 4.3: Create an Account

❖ This is the home page of our site.

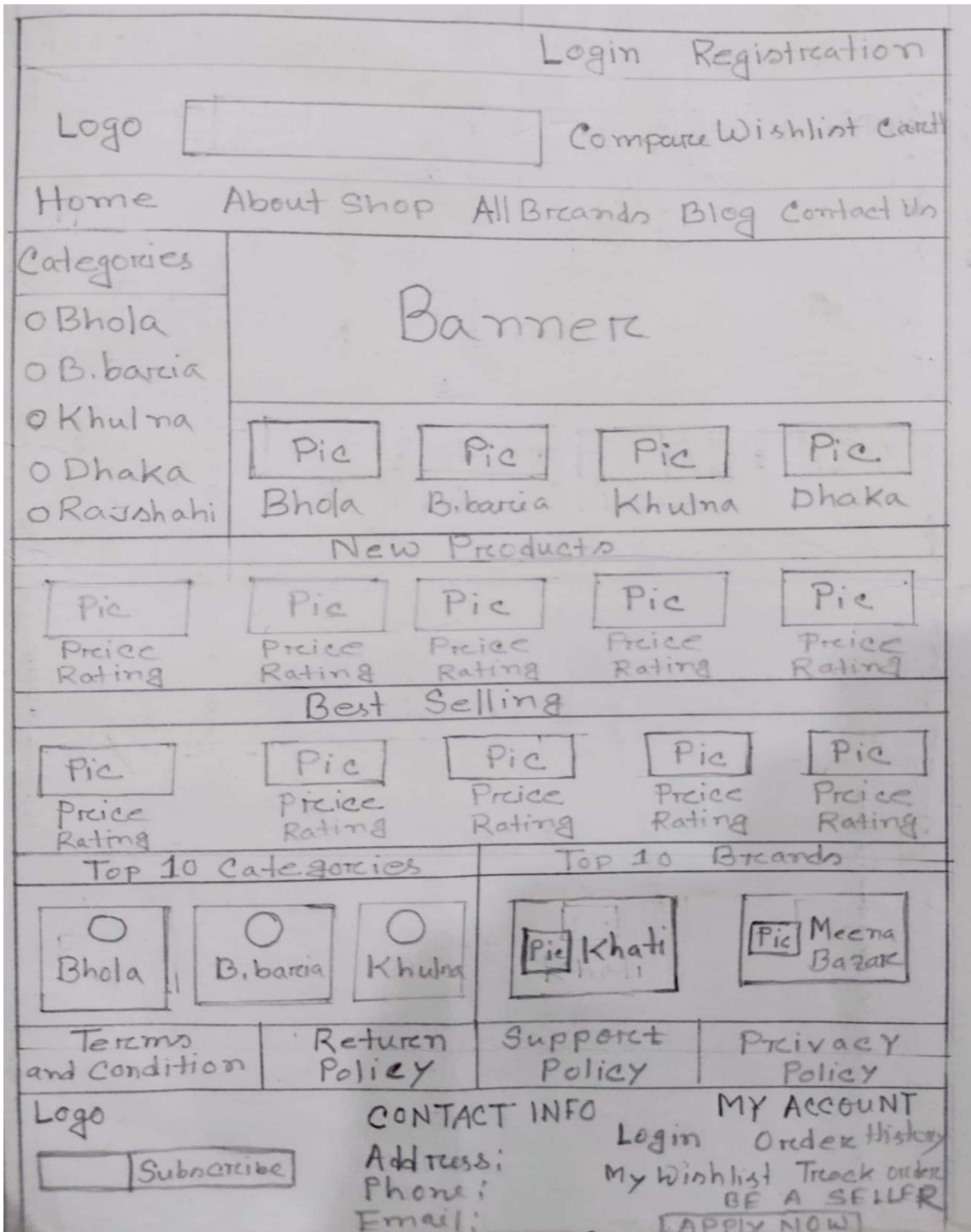


Figure 4.4: Home Page

❖ This user interface for vendors.

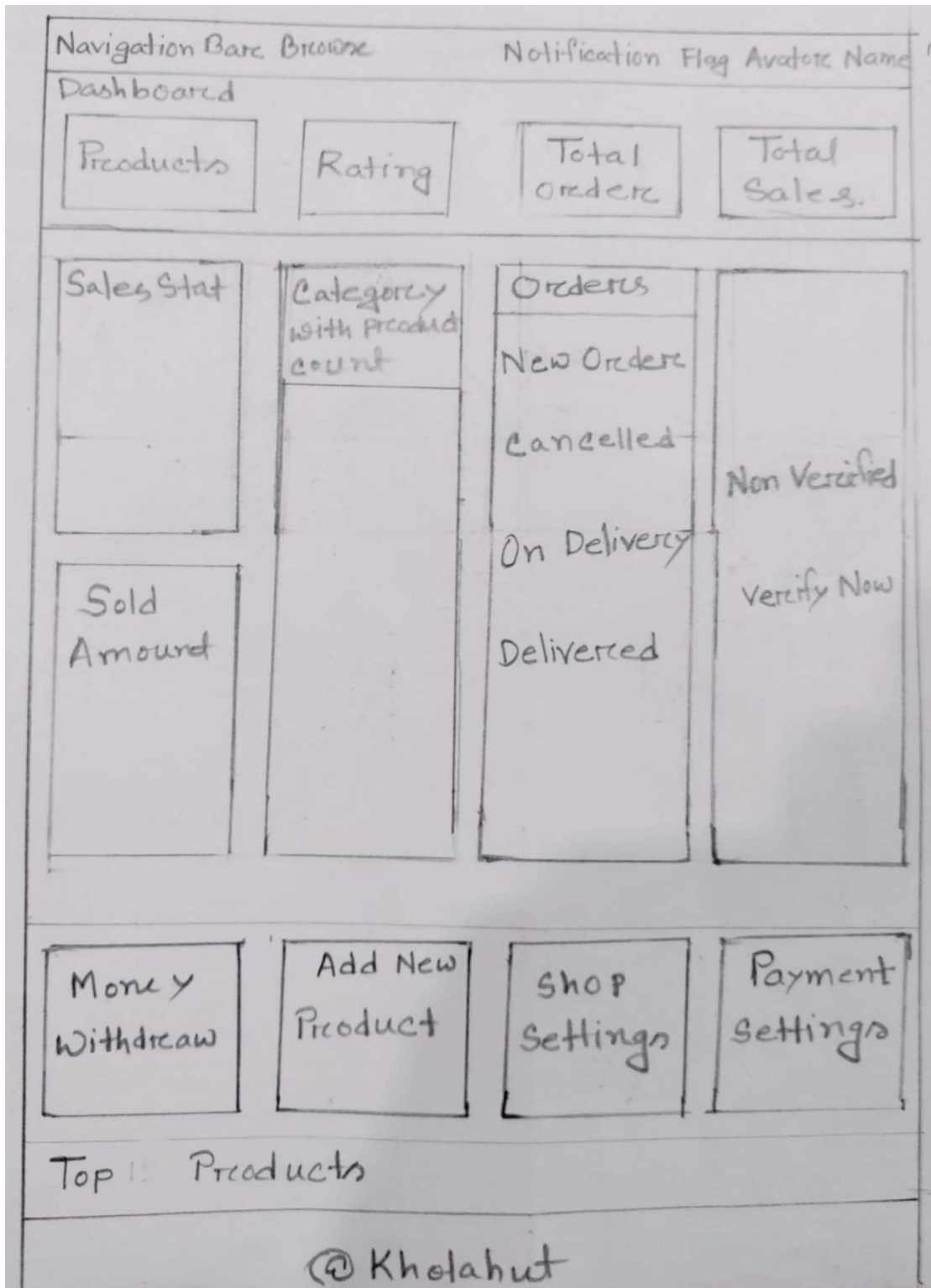


Figure 4.5: Interface of Vendor

- ❖ This is the user interface of the admin.

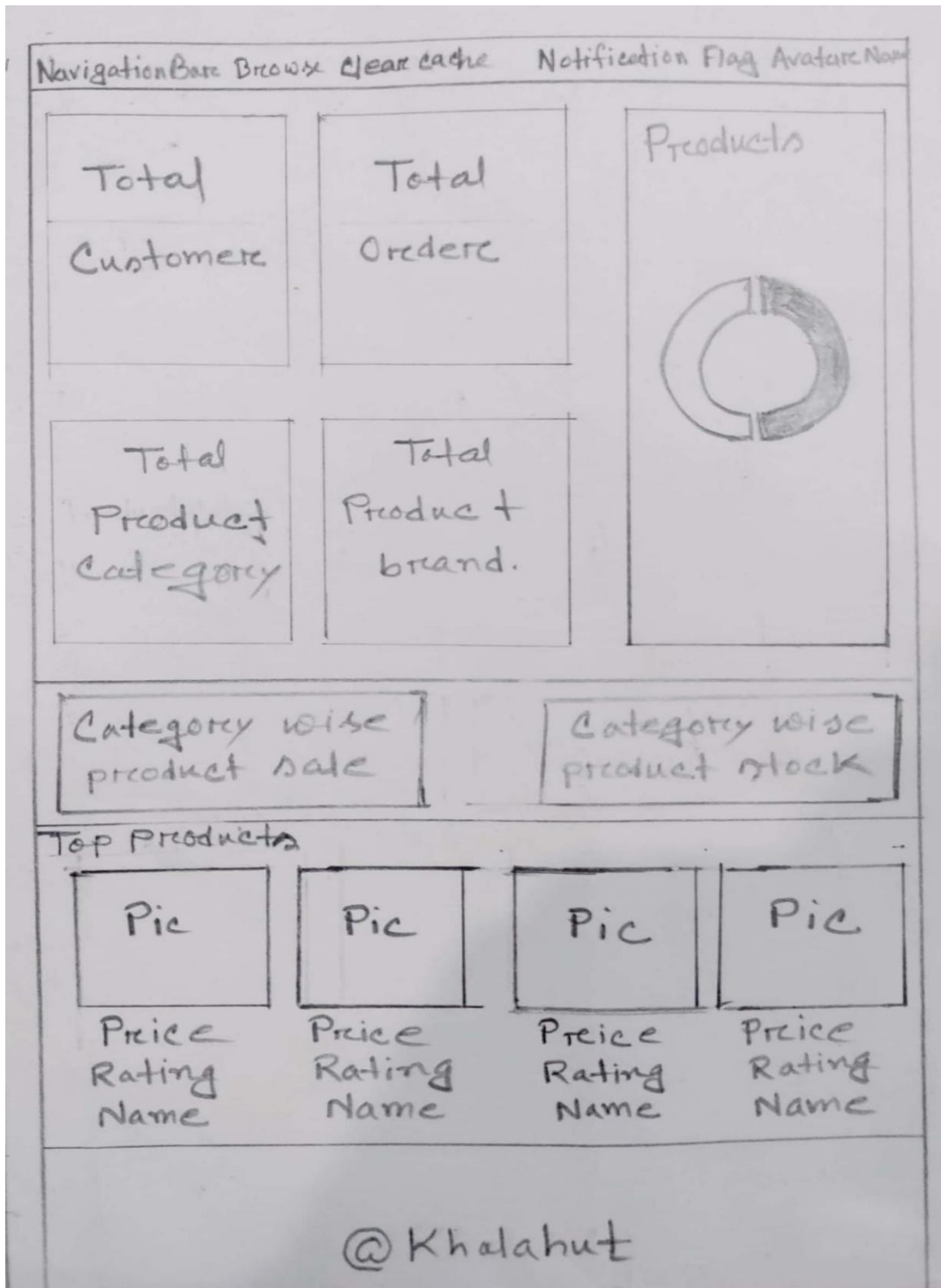


Figure 4.6: Interface of Admin



❖ This the page of user interface for customer.

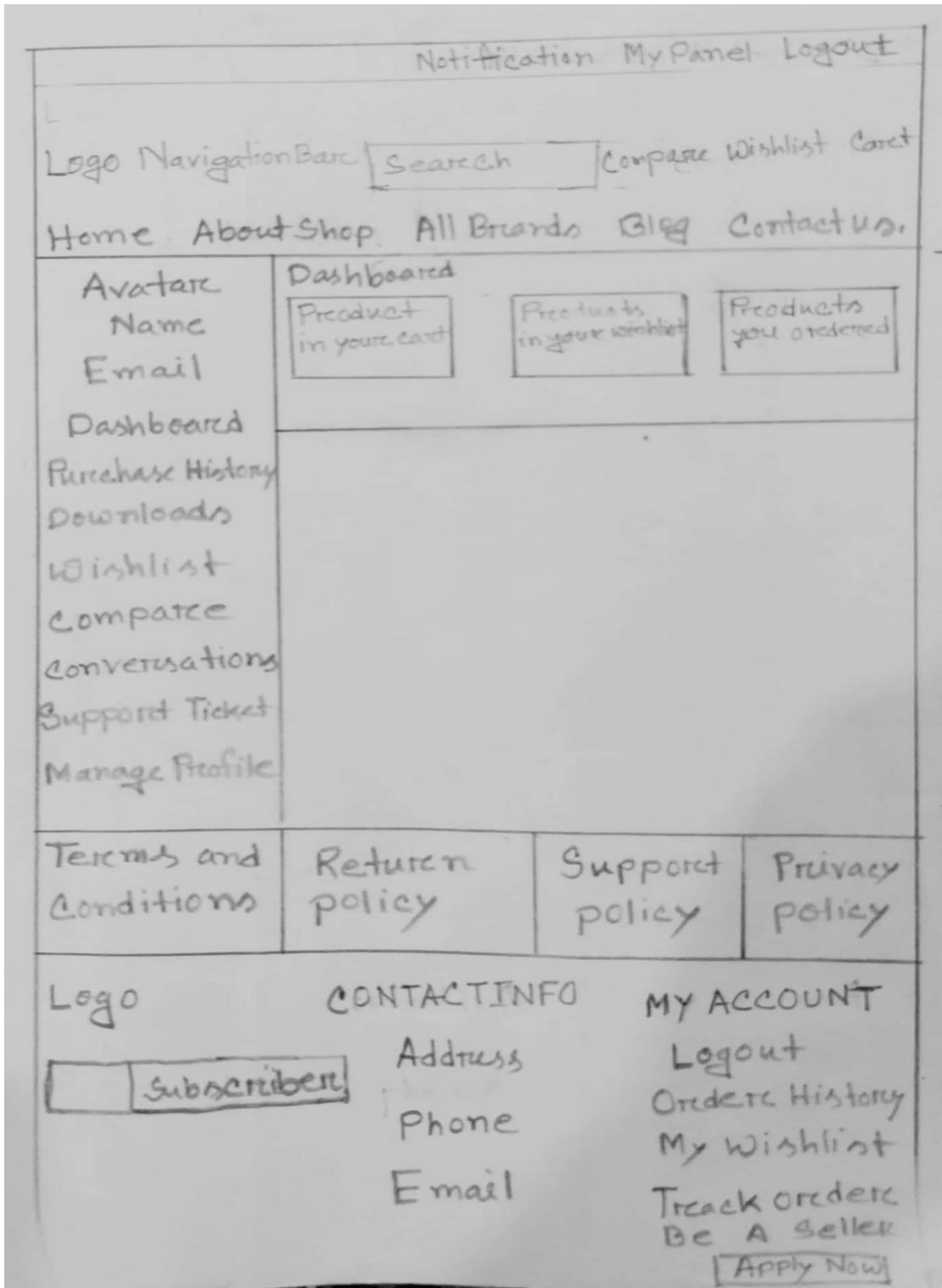


Figure 4.7: Interface of Customer



❖ This is the GUI of the page where customers can buy their products.

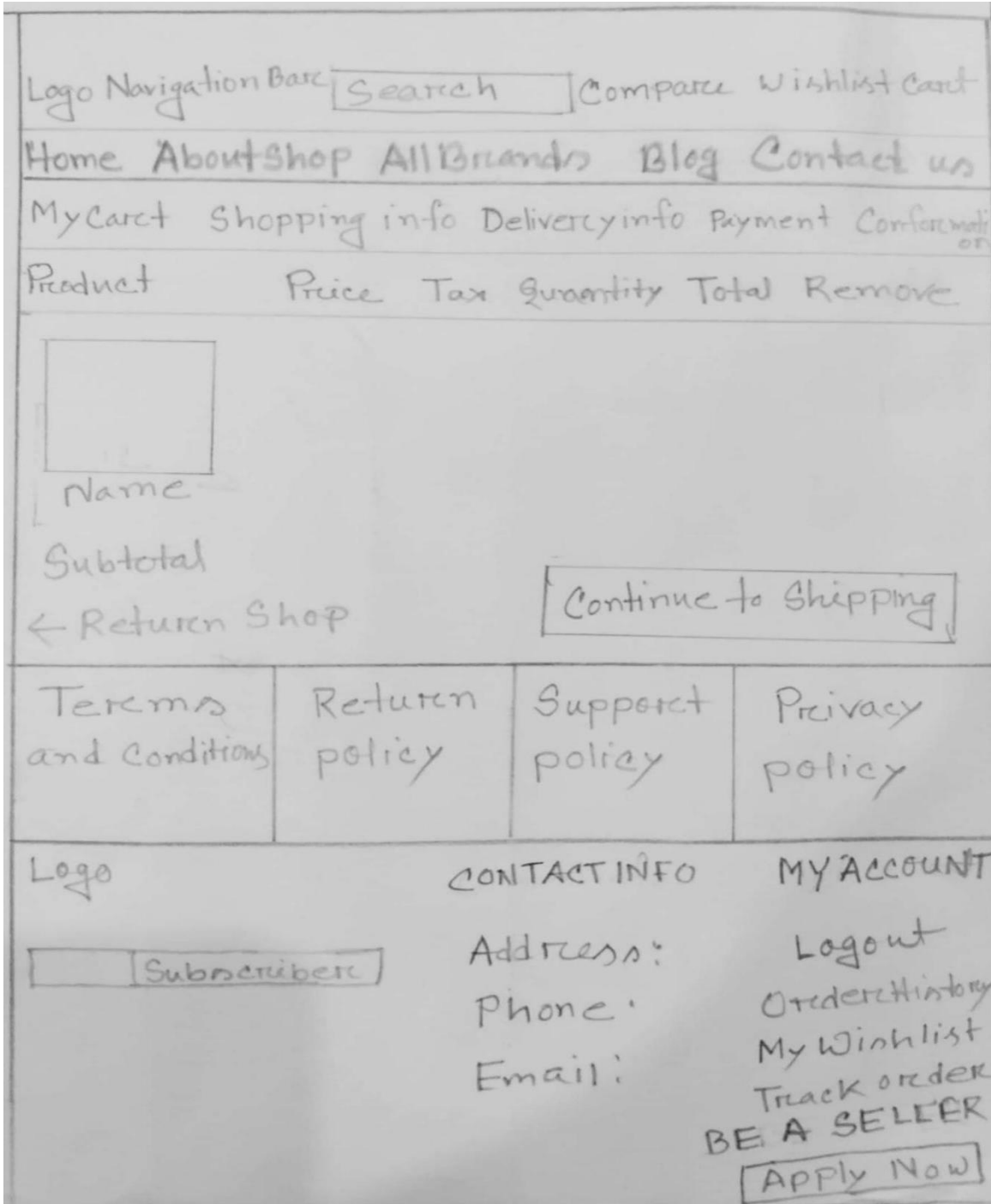


Figure 4.8: GUI Page of Buying Products

- ❖ This is the GUI of add to cart page.

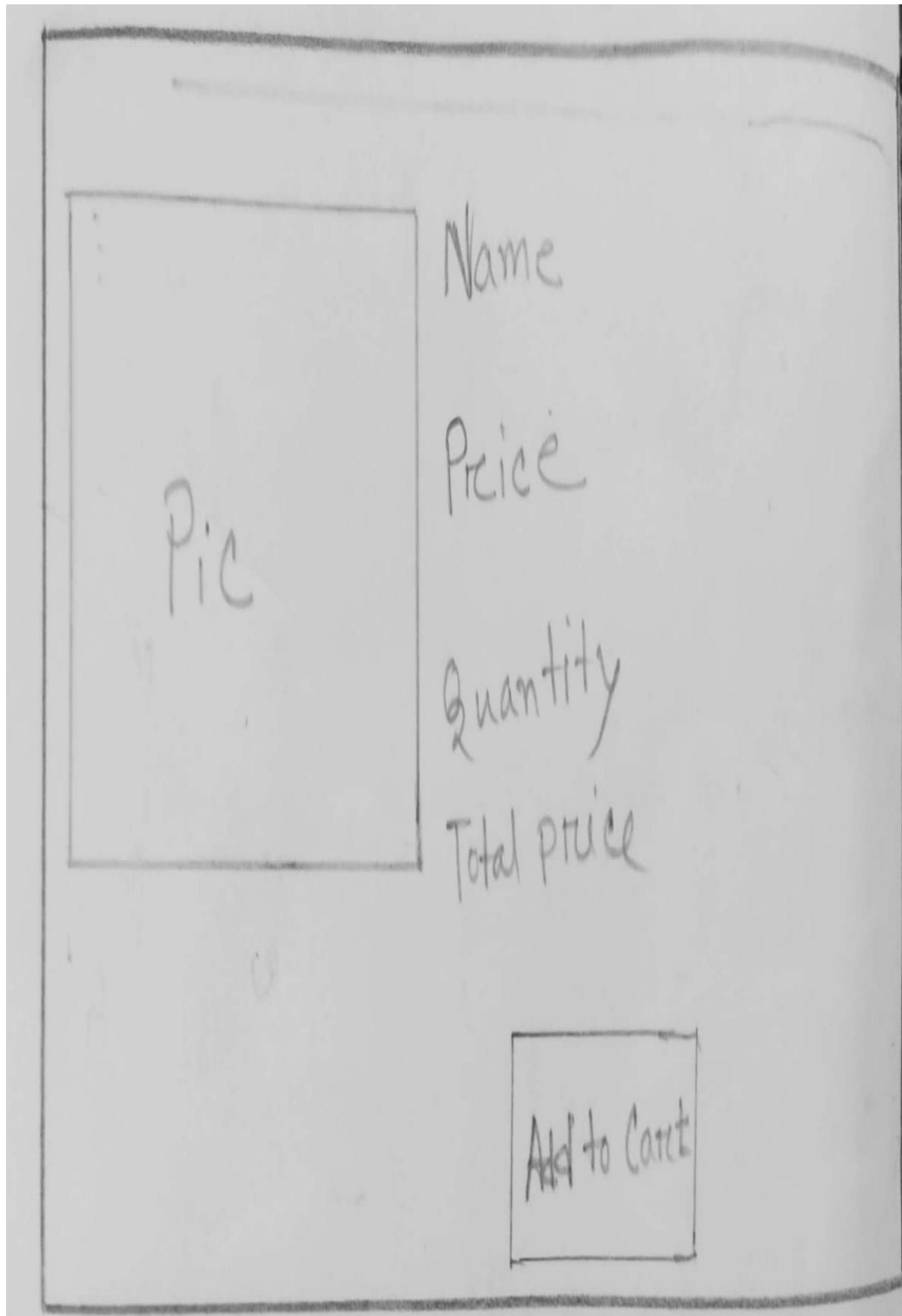


Figure 4.9: GUI OF Add to Cart

## **4.2 Back-End Design**

Back-end of any project is a part which is completed by the developer. It is invisible to client and administrator. It can be code or a program running on a server to serve the client's desire. Suppose a client asked to create an account on our website with his/her information, so his/her provided information will go to the server to check it for his/her qualification. So, the back-end checked the information and allowed the client to the account. Database is also a part of the back-end. Here we use a MySQL database.

## **4.3 Interaction Design and User Experience**

Interaction design means the design of interactive products and services which make a website or application user friendly. It will make for a better user experience. Our site is user friendly and beautiful, which is why people can easily use this site. On our site we use some simple functions so that people can use it. We make our interface understandable for every type of person so it will not cause any kinds of conflict to use this site.

- ❖ A user uses our site for the first time then the user should create an account to use our site. First, he/she has to enter his/her name in Full Name Text Field, email address in Email Text field, password in Password Text Field, then again enter the password to confirm this. Then he/she can create an account by clicking the Create Account Button.

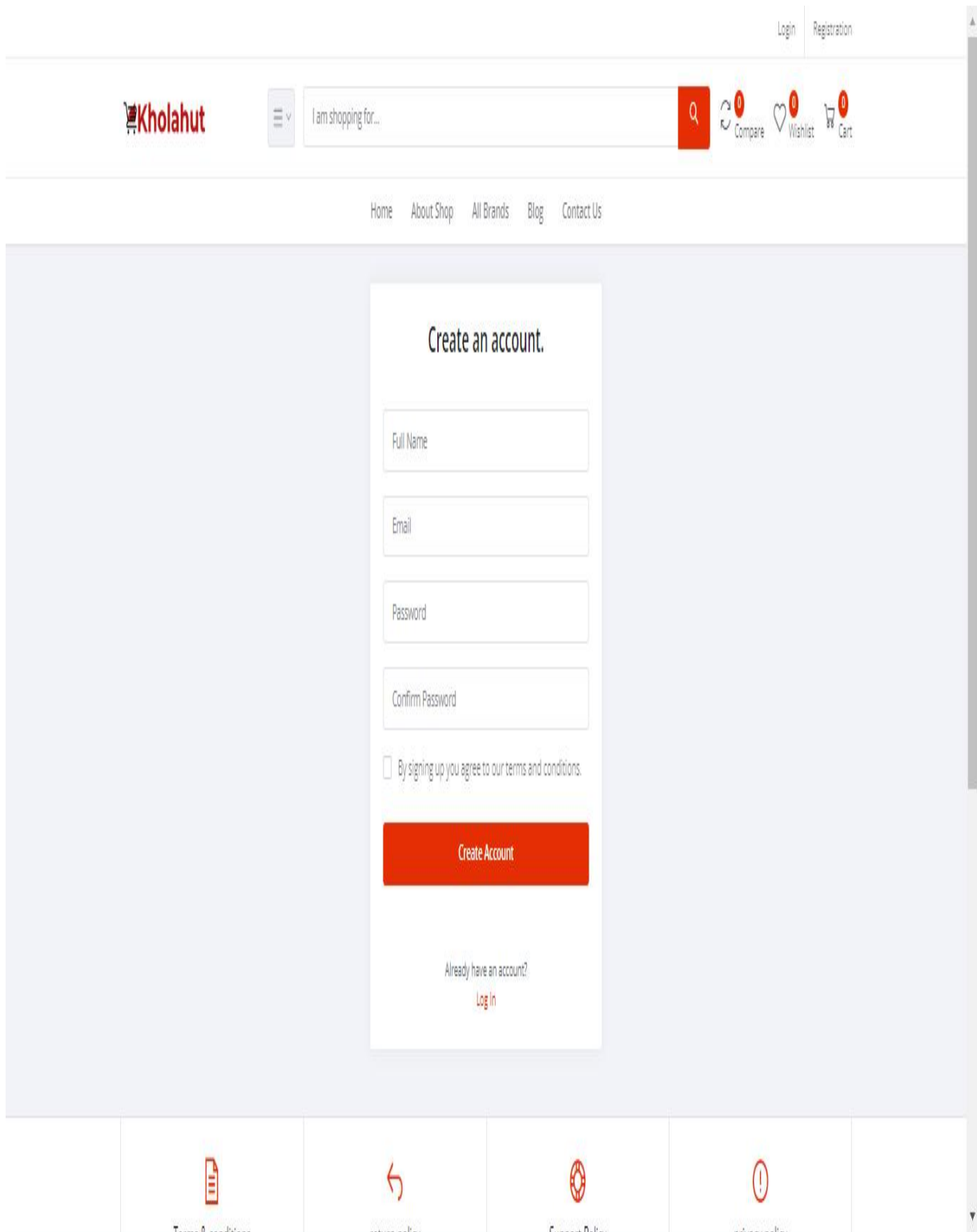


Figure 4.10: Registration Page

- ❖ This page is a Login page. The user who has an account in our site they login their account from this page. First, they have to enter their email in the Email Text Field. Then he/she has to enter the password in the Password Text Field.

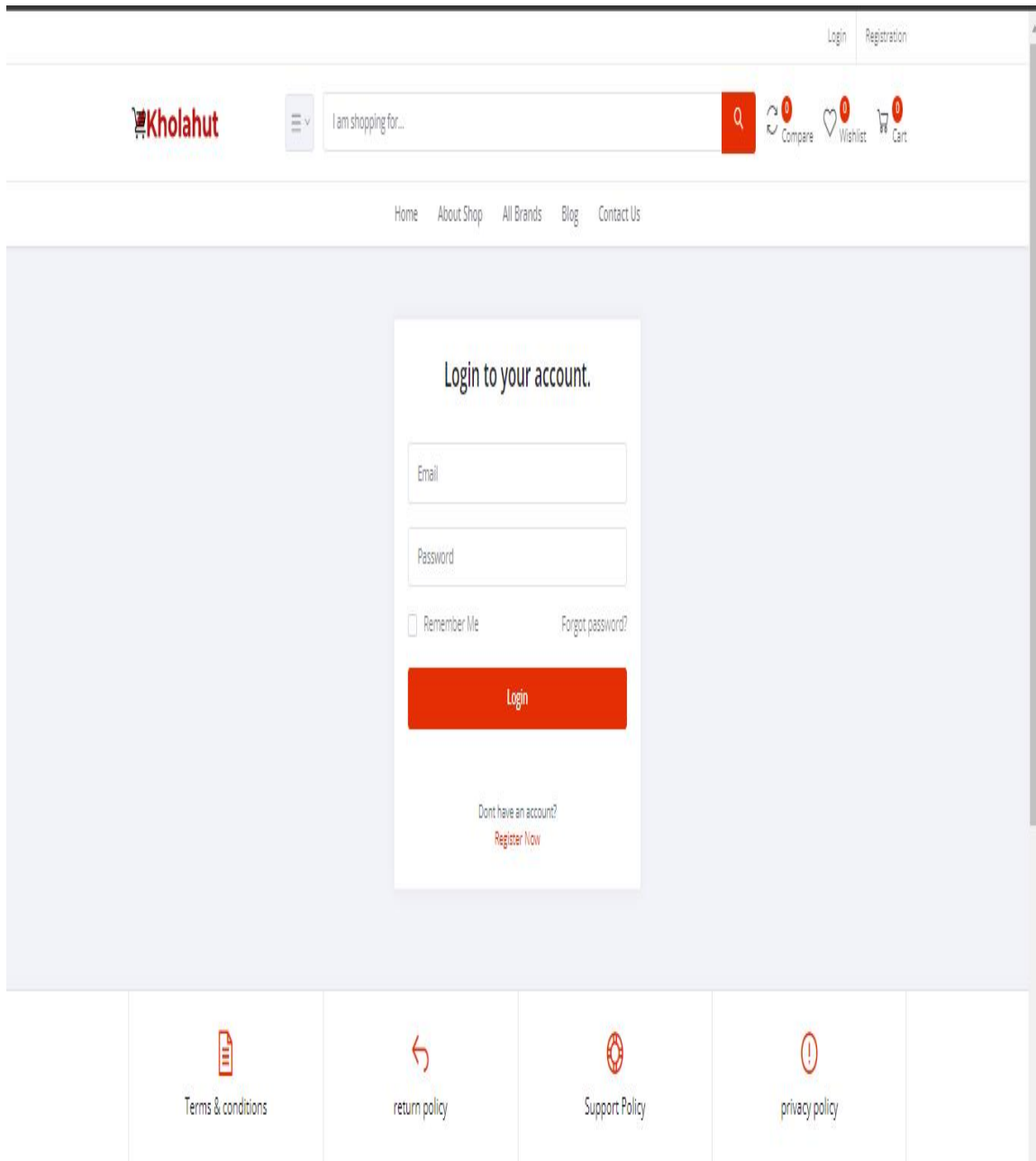


Figure 4.11: Login Page

- ❖ This is the homepage of the website. In this page we display the details about the product so that customers can get their necessary information about the product which he/she wants to buy. Here we also add a search bar, it will help the customers to find out any product they need. The Customer will get the contacts, helpline and product categories in the home page.

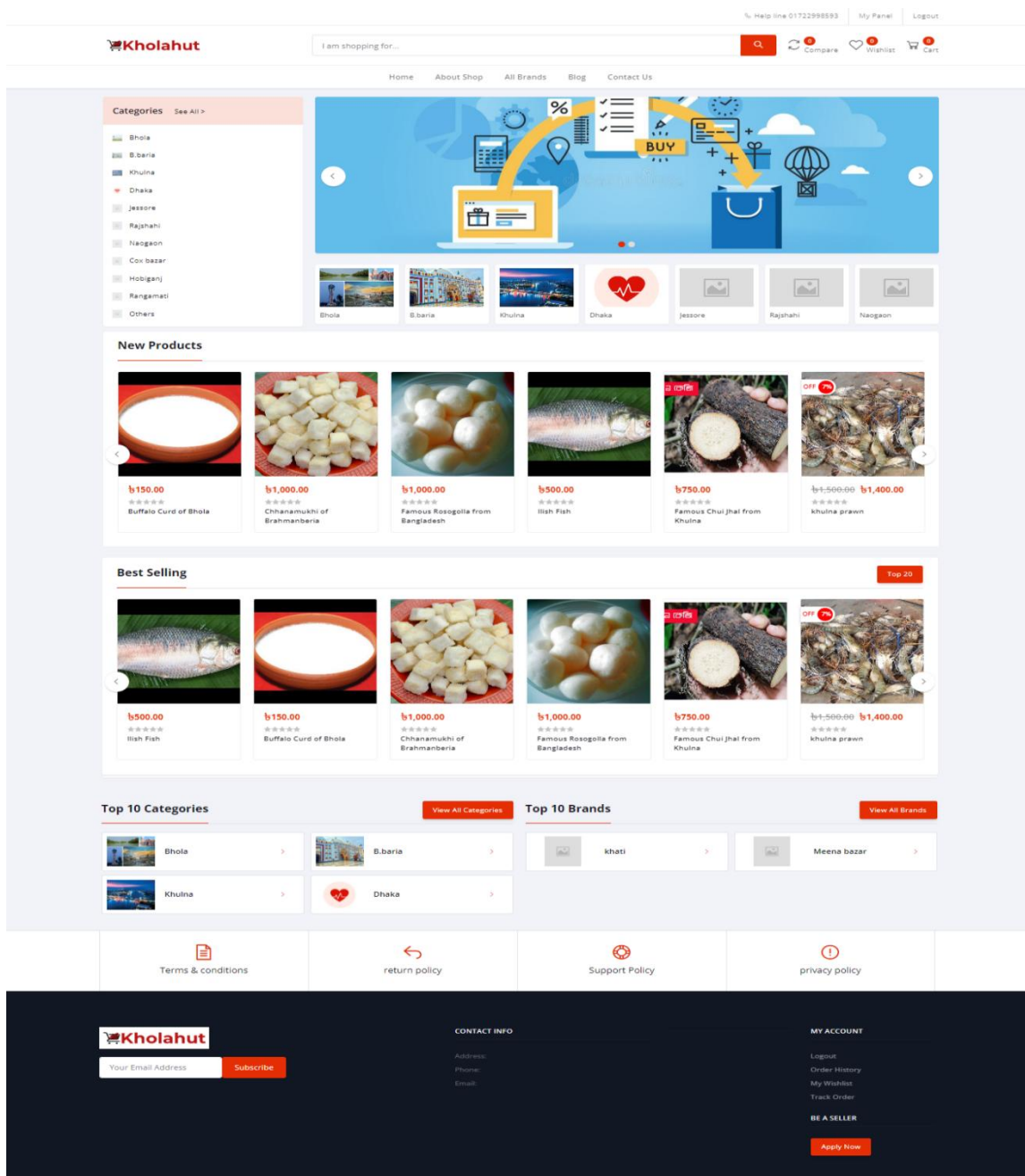


Figure 4.12: Home Page

- ❖ Here is our admin panel dashboard where the admin can check the total number of customer, total number of order, the top brands etc. In this page admin can also check the number of seller whose are approved and whose are not.

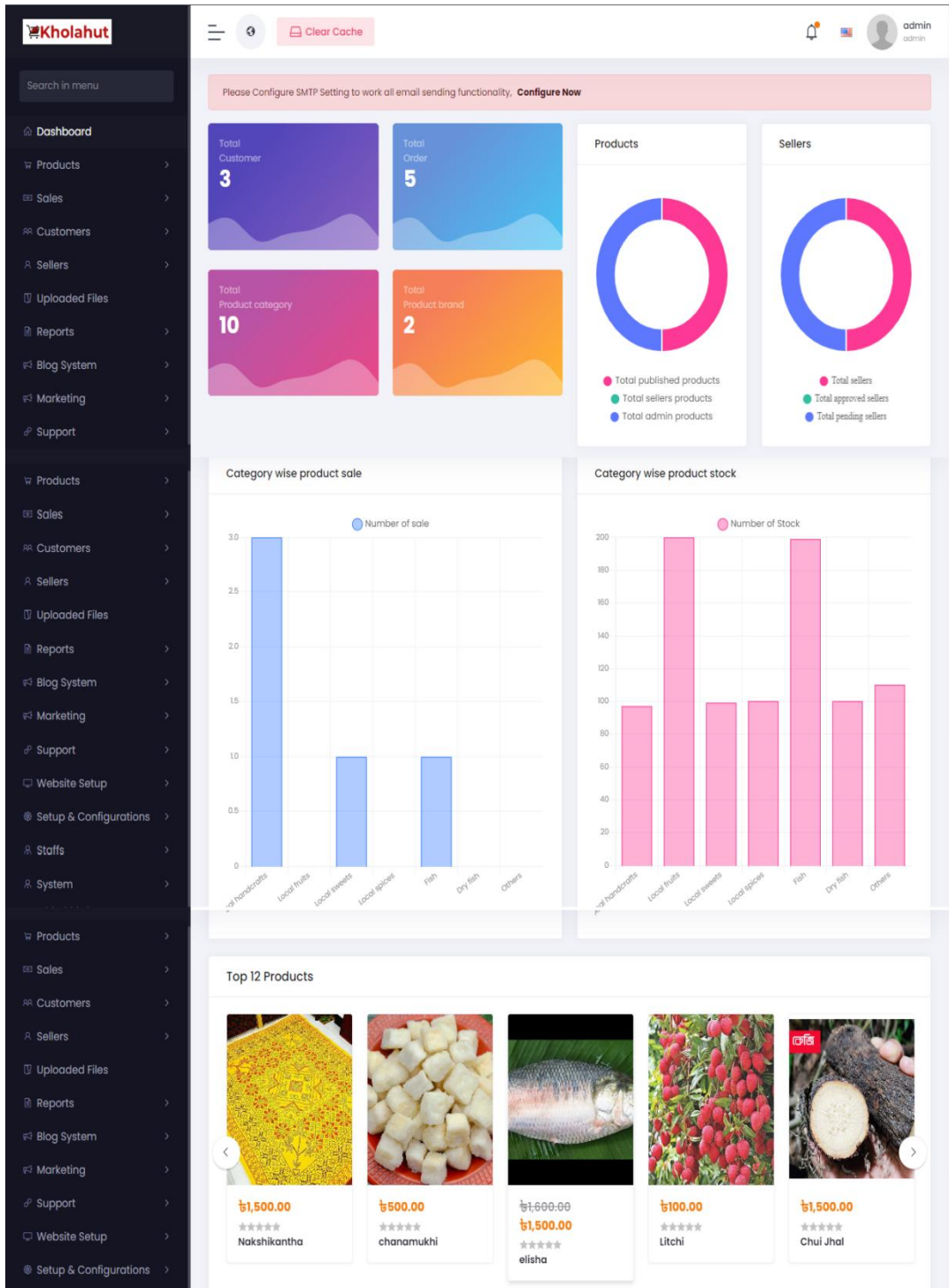


Figure 4.13: Dashboard of Admin Panel

- ❖ Here is the dashboard of customer panel. In customer dashboard the customer can check the number of products they order, how many products they add into wish list and cart.

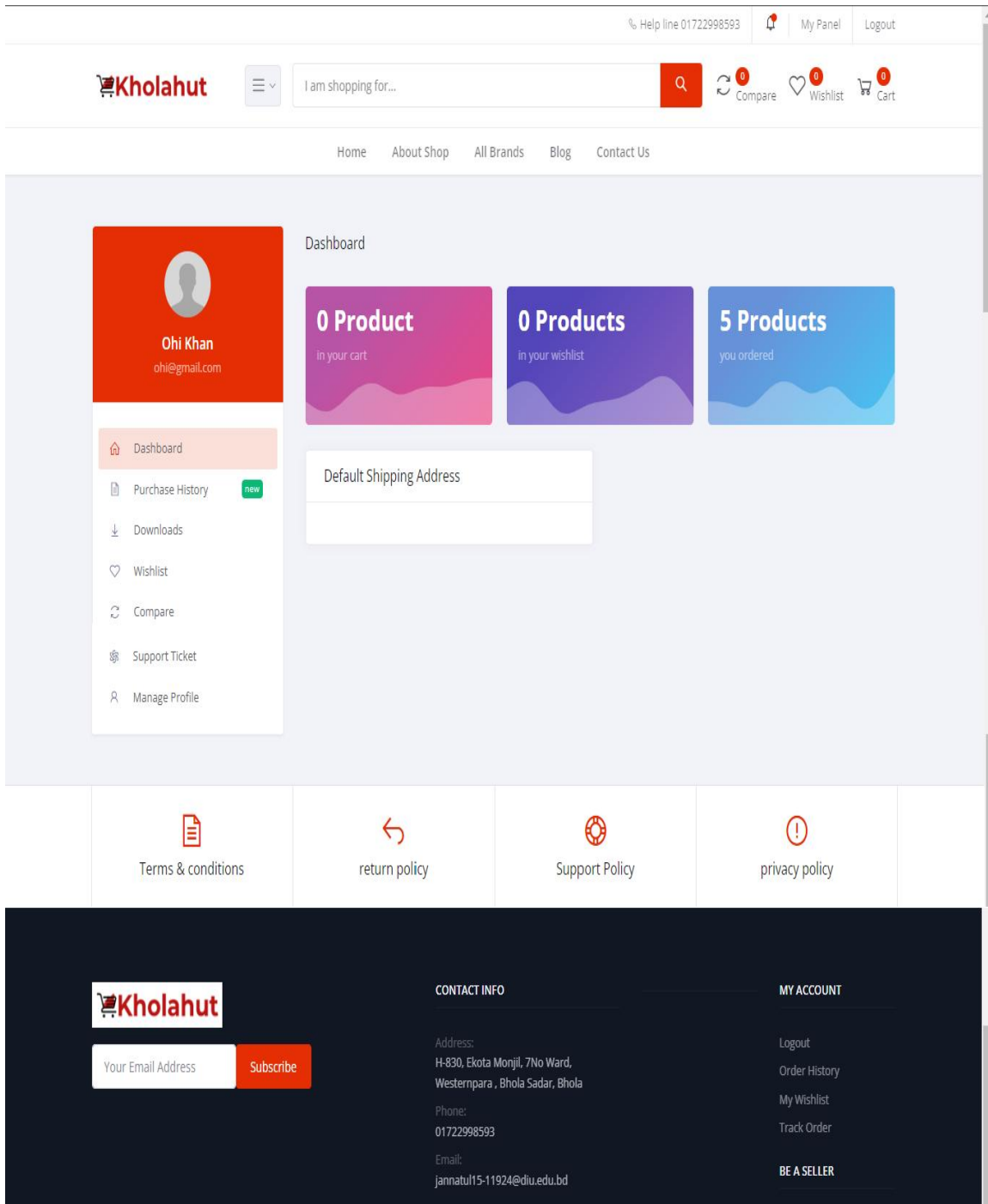


Figure 4.14: Dashboard of Customer panel



- ❖ This is our order page and add to cart page . In order page people can order their necessary products and in the cart page they can add their desire products into cart.

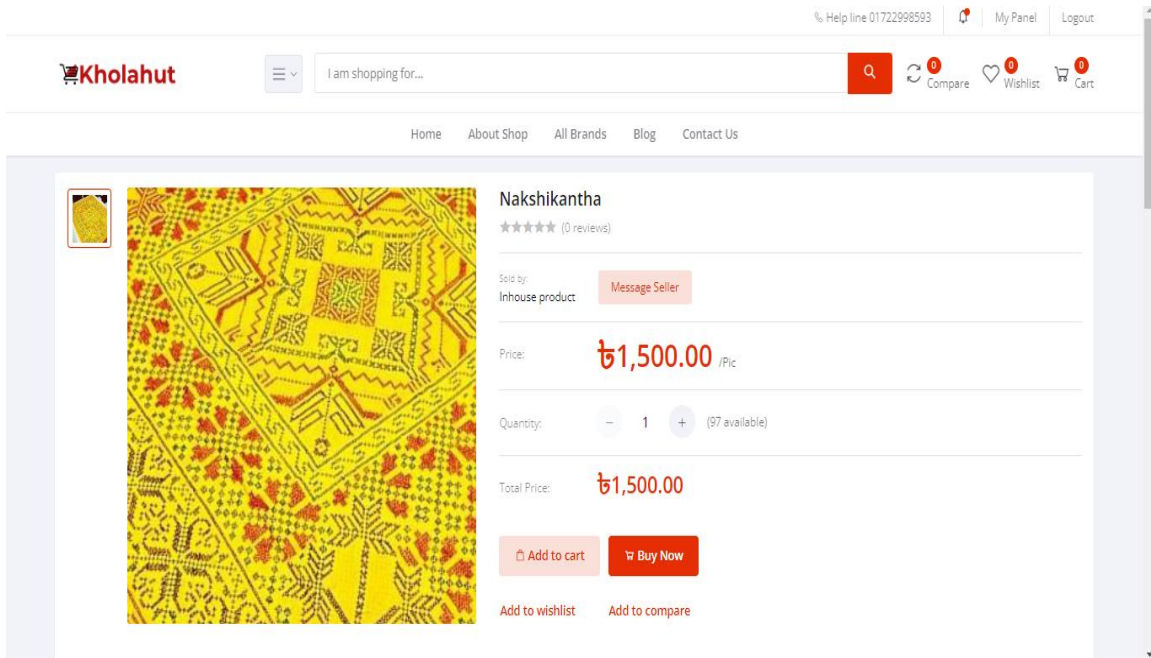


Figure 4.15: Order Page

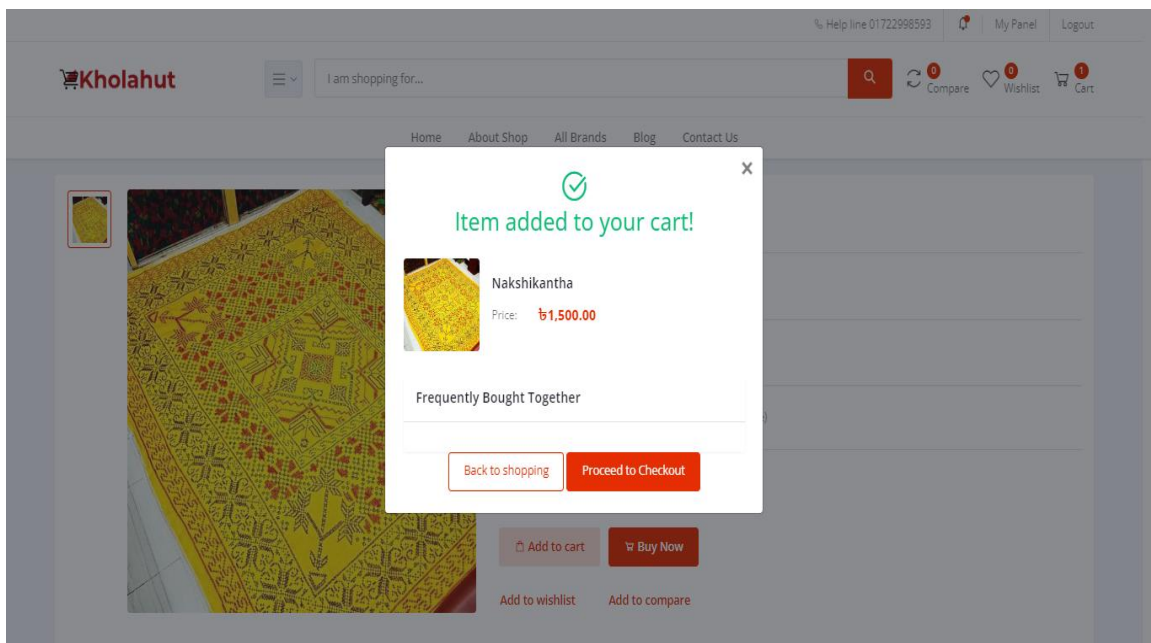


Figure 4.16: Add to cart Page

- ❖ Here is the my cart and shipping information page. In my cart page customer can view their products which are added to my cart and in shipping information contains the information about the customer like address, phone number etc.

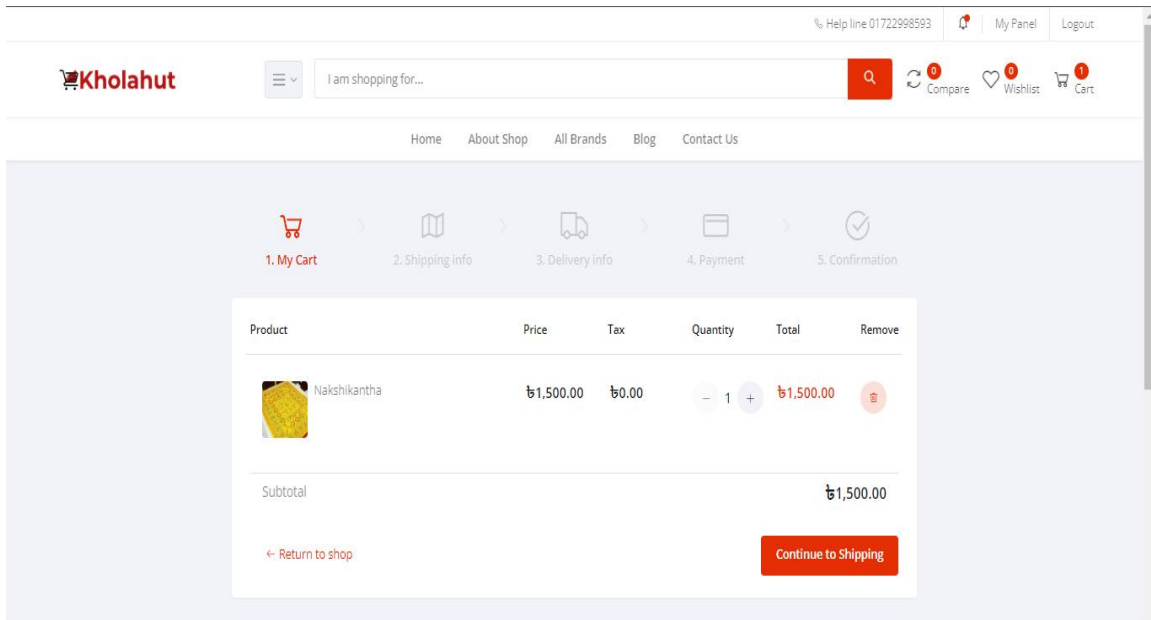


Figure 4.17: My Cart Page

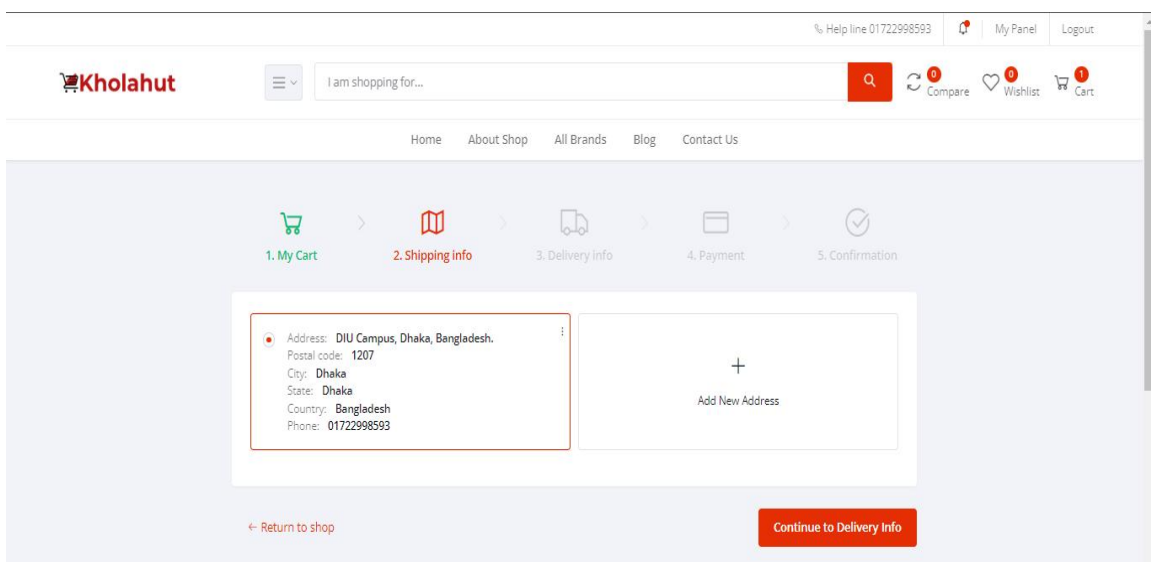


Figure 4.18: Shipping Information Page

- ❖ This is the wishlist page . In page customer can add their favourite products and it's information.

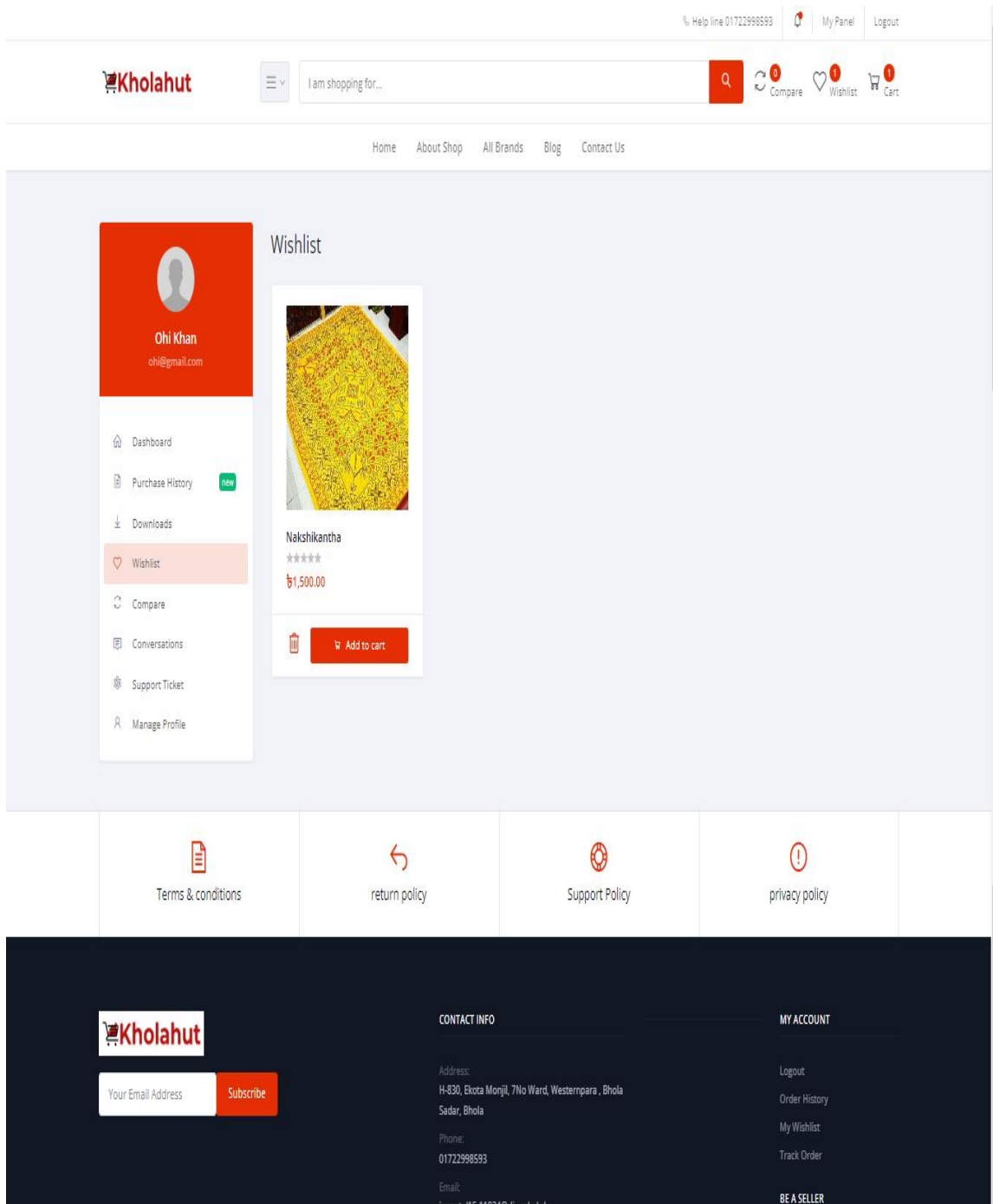


Figure 4.19: Page Of Wishlist

- ❖ Here is the delivery information page where we can view the delivery place of the product.

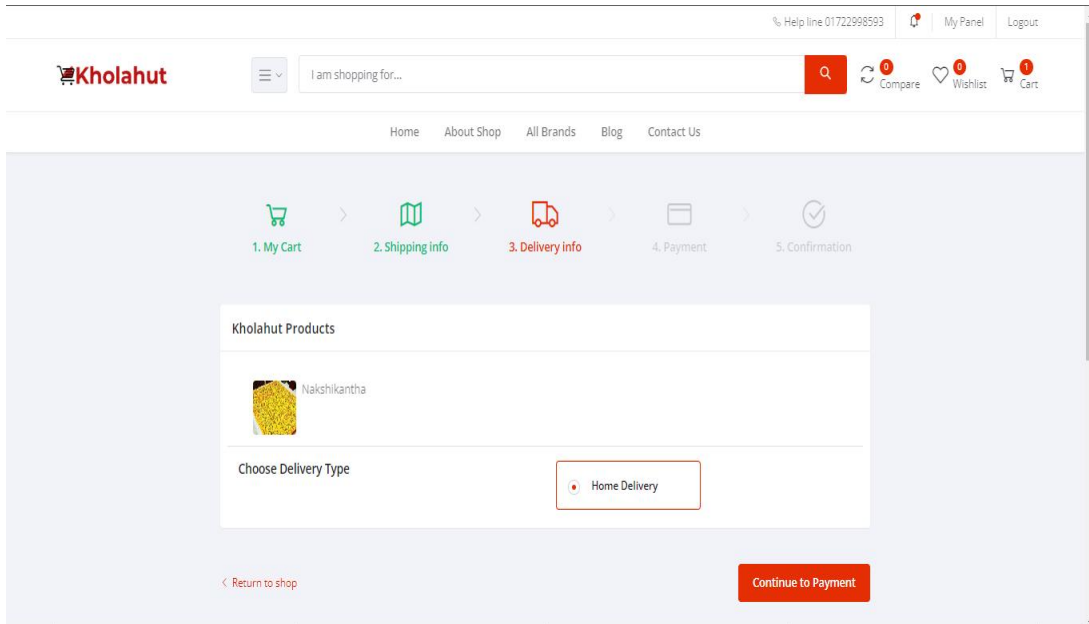


Figure 4.20: Delivery Information Page

- ❖ Now the payment page where the customer will payment methods like cash on delivery, sslcommerz etc to pay the price of products.

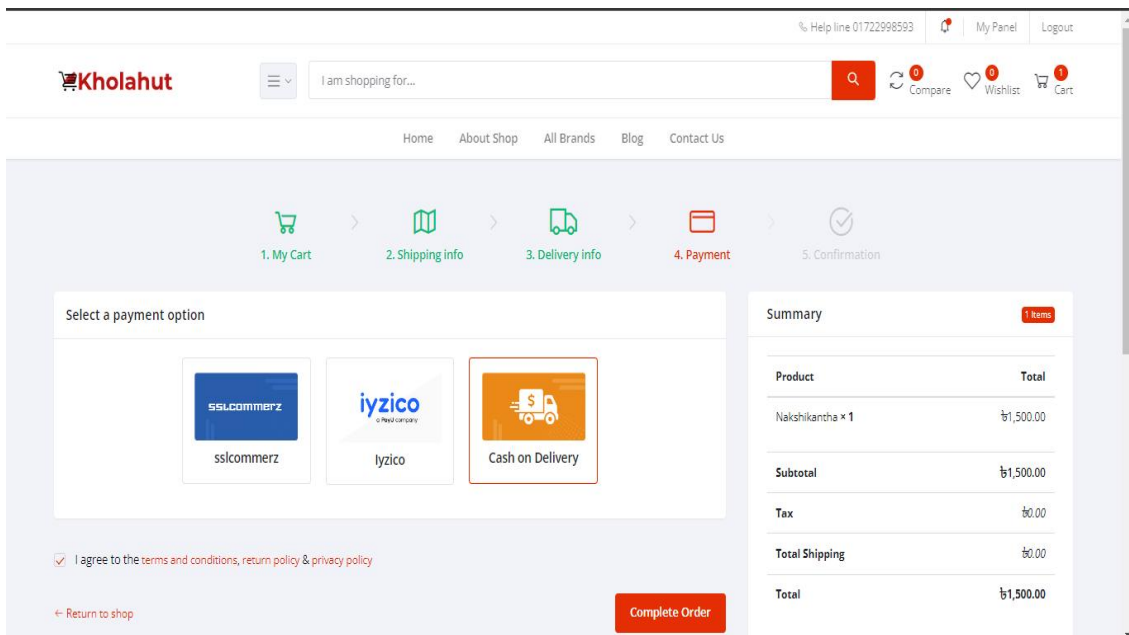


Figure 4.21: Payment Page

- ❖ Here is the cash on delivery page where we get information about order summary and order details.

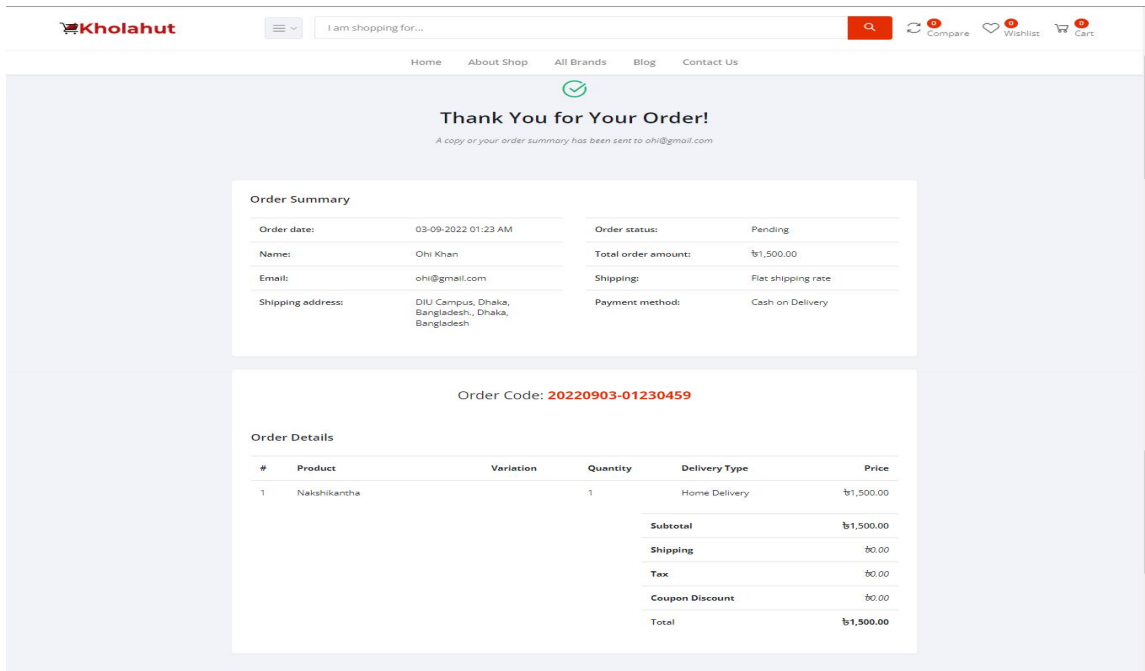


Figure 4.22: Cash On Delivery Page

- ❖ Here is the payment gateway methods page where the customers will get payment methods for paying the price.

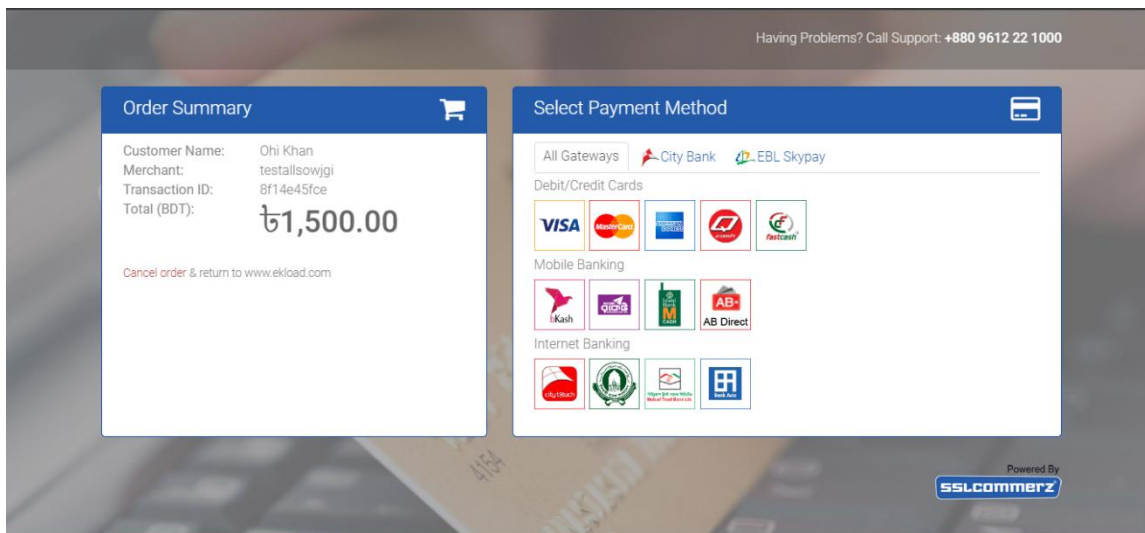


Figure 4.23: Payment Gateway Page

- ❖ Now the sslcommerz page by which people can pay for their products. People can check here if the payment is successful or failed by sslcommerz.

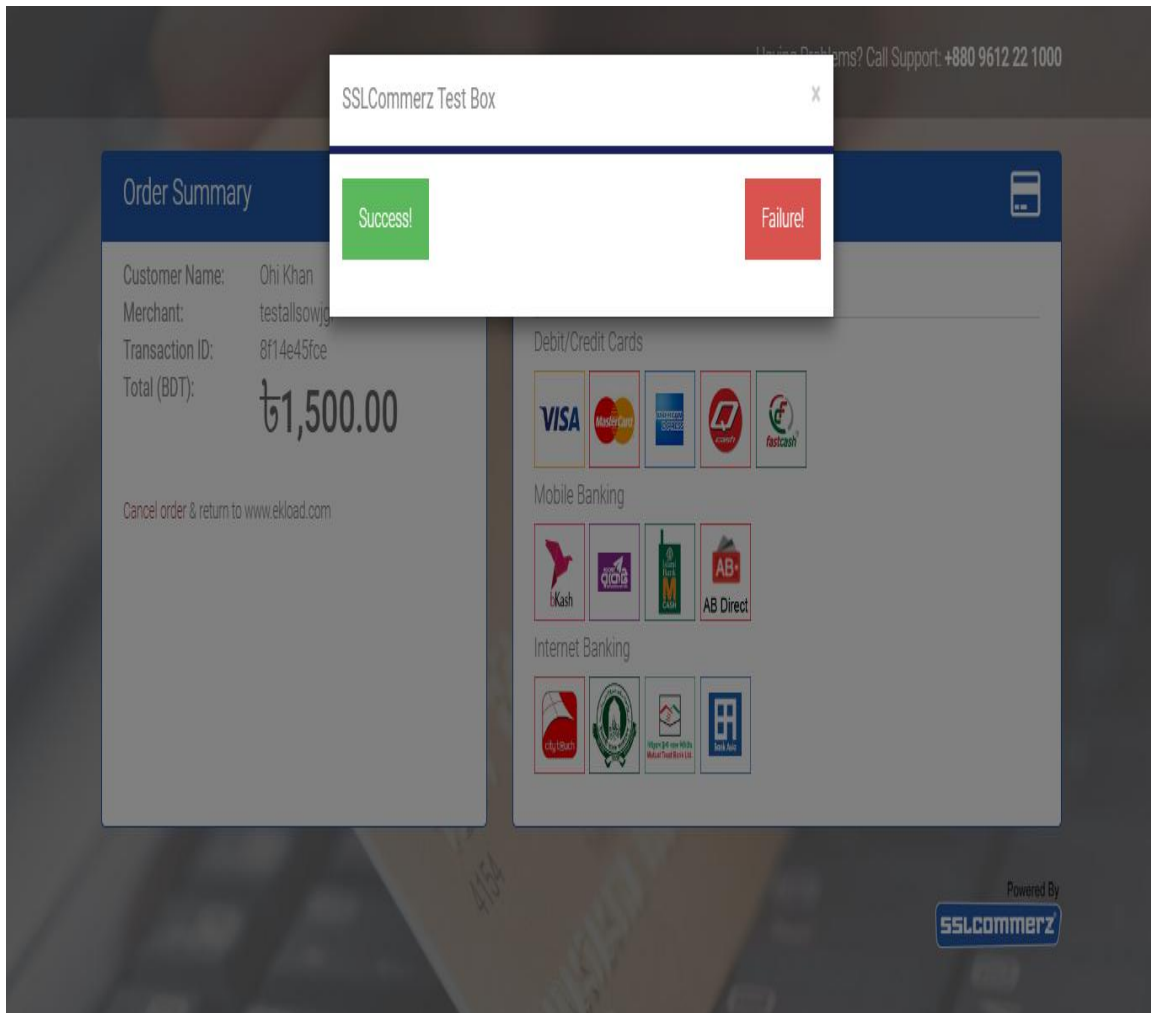


Figure 4.24: SSLCOMMERZ Page

#### 4.4 Implementation Requirements

The technology used as follows

- Programming Language: HTML, CSS, PHP, JavaScript
- Framework: Laravel
- Database: MySQL

## Chapter 5

### IMPLEMENTATION AND TESTING

#### 5.1 Implementation of Database

In our project we use MySQL database to store, remove and update the data. Here, the information is stored in separate “tables” and connected with “keys” that is why it is a relational database. We can also handle, modify and delete data in an organized way in this database.

#### 5.2 Implementation of Front-End Design

Front-end design is part which will be shown in front of the client. We use Laravel framework to make our front end design. We make our front end design so easily so that our site will user friendly for the customer and vendor. In front end design we designed login page for admin, customer and vendor. We also create a registration page for customer and vendor to create their account. We also design a home page where we will show the product’s pic, name and price, the banner and the logo of our site. We also designed dashboard for admin, customer and vendor. We also design the add to cart page, buying products page and product’s order page.

#### 5.3 Test Implementation

Performance test is necessary for any software to ensure that it can perform as expected. To check a website or software we have to check some parameters such as application output, data processing speed, network bandwidth use, load-bearing capacity, memory consumption, command response time etc. For our site we have to check the home page test, search test, recommend products, payment, shopping cart, product details page, post order test etc. Here we check our site by three methods which we use to check a software or website. The three methods are:

- Black box method
- White box method
- Gray box method

## 5.4 Test Result and Reports

Here we implement three methods to test our project. They are white box method, black box method and gray box method. To build the project we have to check the code error, page link, routing, server connection etc. as the white box testing method. We have also to check the dashboard management, login, password set, product upload which are included in the black box testing method. As a gray box method we check server connection, login, password set etc.

Table 5.1: Test Result

Test Case	Test Input	Expected Outcome	Obtained Outcome	Passed/Failed	Testing Period
Login for Admin	Email and password	Login Successfully	Login Successfully	Passed	22.03.2022
Login for Vendor	Email and password	Login Successfully	Login Successfully	Passed	15.05.2022
Login for Customer	Email and password	Login Successfully	Login Successfully	Passed	9.06.2022
Product Upload	Picture and Price	Upload Successfully	Upload Successfully	Passed	4.08.2022



## Chapter 6

### IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

#### 6.1 Impact on Society

In this project our main target is to increase the popularity of our native products by spreading. It's a market. So, it will have a great impact on our economy. This will also simulate our economy. Our project will help many people to be employed to earn their livelihood. We may also decrease the interest of people on foreign products and attract to native products. In our country women are associated with handcrafts work. In this platform women will get the opportunity to sell their products and can be self-reliant. So, this platform also creates employment for women which will be helpful for women empowerment. In the city area home made products are not available and the price is also high. This project will help to make the home-made products available and at a sufficient price.

#### 6.2 Impact on Environment

Our project is an online based marketing platform where we are trying to spread a market of local products. In these products handcrafts are also included. But the availability of these products is rare and too costly. Some reunions company sell these kinds of products in high price for the `customer but the laborer doesn't get their proper wages. Our platform will help the laborer to get the proper wages of their product and also supply the product to customers at the right price which creates a balance in our economic environment. We are also trying to make this product available everywhere.

#### 6.3 Ethical Aspects

Our project is an online marketing base platform where we will present only the local authentic products. So, our site will not be used for any kinds of anti-social activities. No immoral acts can be committed using this site. As all the information will be controlled

by the admin so any kind of wrong information will not be displayed. We are also ensuring that any kind of unethical products will not sell on our site.

#### **6.4 Sustainability Plan**

Sustainability plan means the outline of how you will run your project for the long time to achieve the goal of financial, social and environmental. Here to sustain our project we will always try develop our services for the customers and vendors. We will organize our future plan as it will helpful for the people and also profitable for our project. We have also a plan to launch our site as an international brand which will help to spread the market of our local products all over the world which also make our project sustainable and help us to gain our final goal.

## Chapter 7

### CONCLUSION AND FUTURE SCOPE

#### 7.1 Discussion and Conclusion

The project is completed with the help of Laravel, XAMPP, MySQL database. People can use the site anywhere by mobile or PC with the help of internet connection. At first we learn the PHP language for backend work, Laravel for framework and MySQL database. We collect our data from the online sources and also collect vendor from an event named by Oithjhoer Hat". Then we designed the UI design of our website and find out the features which are implemented in our site. Then we divided our work before starting our work. Then at first we make the UI design for the home page, then we complete the dashboard and then we complete the admin panel, vendor panel and customer panel step by step. Then we start the work of back end. After completing the work of back end and front end we work with database and connect the MySQL database with our server. Then add the payment gateway as it is an e-commerce website. As a multi-vendor e-commerce site we create individual vendor for every zilla of Bangladesh. Now a days we can see that the use of domestic products are decreasing so the local products are on a threat. Our domestic products are our glory. But for lack of proper marketing our local products are losing its glory. Our project will help to spread the market of our local products. That will make our local products popular to the general people. There is also a problem of availability of our local products. That is why people do not get their desired product. Our site will make the local products available for the people. Our project will also help the women seller to sell their products. Besides our native artists are also suffering because they can not place their products into the market properly. Our project will make create an open market for the vendors where they can sell their products and any customer can purchase the product from our site. In our project we have create segment for handcrafts, local fruits, local spices, sweets and others. Now a days we can see that our young generation are attracted to the foreign products so our site will help to introduce our local products with them. The project will spread the market of local products and bring its glory back. It will also be helpful for our native artists to make

their living and people also get their desired product of any place in their hand. People can use this site for free.

## **7.2 Scope for Further Development**

In this project we are working with local products. In our multi-vendor ecommerce site, there are some scopes which will be developed with time. Such as we will develop the quality of product day by day so that we can ensure the authentication of the products. At the beginning of our journey for this project we have started with some vendors, so there is also a scope to increase the number of vendors.

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## Final Test

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