

# **ONLINE BASED SUPER SHOP MANAGEMENT SYSTEM**

**BY**

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The report is Presented in the Partial Fulfillment of the Requirements for the Degree of B.Sc. in  
Computer Science and Engineering

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## **APPROVAL**

This Project titled “**Online Based Super Shop Management System**”, submitted by Noor Afia Shammi ID:181-15-1994 and Monisha Biswas ID:181-15-1928 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 has been held on 13-01-2022.

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## **ABSTRACT**

This project is a web-based shopping system for a subsists shop. This project is an effort to provide the advantages of online shopping to customers of a real shop. It supports buying products in the shop anywhere through the internet by doing with any device. Thus, the customer will get the worship of online shopping and home delivery from his felicitated shop. At the end of the last century, online shopping was already starting to catch people's remark and was slowly attracting consumers to use it as a channel, for starters because of its ease in fulfilling purchases and also intake steps information as, even then, some sites already provided comprehensive actuality. A typical online store the purchaser to browse a strong range of products and services, view photos or images of the items, along with realism about the product specifications, characteristics, and prices. Our project will have an extensive influence on society because we all become acquainted that the online platform is now very popular all over the world and everyone is benefiting a lot. Payment facility in this super shop is more and easier than other super shops. Cash on delivery according to our super shop products. This is why our super shop is exceptional from other super shops and suitable for public use. In the future, we will try to keep all kinds of domestic and foreign products in our super shop so that we can easily deliver our products in and out of the country to people of all walks of life. Our main goal is to make people believe and deliver the right product to them.

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## CHAPTER 1

### INTRODUCTION

#### 1.1 Introduction

This project is a web-based shopping system for a subsists shop. The goal of the project is to provide the convenience of online shopping to every platform. This initiative aims to persuade clients of a physical store to benefit from internet buying. It allows you to buy things from a store from any location using the internet and any device. As a result, the client will be able to purchase online and have his favorite store brought to his home. This procedure can be carried out in any local store or in global branded stores with casual outlet chains. If stores offer an internet gateway via which clients can purchase conveniently from anywhere, they will not lose customers to the leading online stores. Consumer's demand can purchase anything from anywhere in the country. alike the traditionary dress (saree, lungi, Jamdani, Katan, tat), food, Different types of Bags, Shoes, ornaments, etc.

#### 1.2 Motivation

- At the turn of the century, internet shopping was slowly gaining traction as a channel, owing to its ease of use in making purchases and in obtaining step information, as some sites were already doing so at the time.
- However, we are now in the first decade of the twenty-first century, and times have changed, and customers' motives have changed as well, as evidenced by this literature analysis and the research project's findings.
- Consumers can buy anything from anywhere in the country like the traditional dress (saree, lungi, Jamdani, Katan, tat), food, Different types of Bags, Shoes, ornaments, etc.

#### 1.3 Objectives

- To keep track of inventory.
- To save time while calculating sales activity.
- Clumsiness will be reduced if a huge amount of data is stored in the database.
- To decrease paperwork, allowing users to spend more time watching the SuperMarket.

## 1.4 Features

- To keep track of inventory.
- Reduce the amount of time it takes to calculate sales activities.
- Clumsiness will be reduced by storing a significant amount of data in a database.
- To decrease paperwork and allow users to spend more time watching the Supermarket.

## 1.5 Social Impact

Our initiative will have a significant social influence since, as we all know, the internet platform has grown in popularity across the world, with everyone benefiting greatly. Everyone values their time these days, so they turn to the internet to save time and money. Online buying is possible for almost every form of purchase. People in today's culture are quite busy, which means that many of them are unable to get out when they want it. This is not the time to go beyond one's own necessities in order for others to simply obtain the items they require from the convenience of their own homes via the supermarket. It is time and money-consuming for folks! People have been addicted to internet shopping and technology over the last several years. Online shopping has been an everyday event for individuals of all walks of life after the Covid 19 outbreak swept over the world and people began living under house arrest. Everything from fruits and vegetables to life is available for purchase on the internet. As a result, our online superstore platform and simple confidence to satisfy the demands of people result, we've built an online superstore platform for individuals from all walks of life on our social media network.

## 1.6 Report Layout

- **Chapter 1:** We must first outline the project's purpose, aims, characteristics, problem description, and social impact.
- **Chapter 2:** The background, breadth, and problems of the concerns are discussed in the following section.
- **Chapter 3:** We'll talk about use case modeling and descriptions, data flow diagrams, requirement gathering analysis, design requirements, advanced features, and descriptions.
- **Chapter 4:** We evaluate the requirements for the front-end, back-end, and implementation.
- **Chapter 5:** We'll go over database configuration, front-end design configuration, interaction design configures, testing configuration, test results configuration, and reports configuration. Finally, an overview of the findings is offered, along with their implications for the future.

## CHAPTER 2

### BACKGROUND

#### 2.1 Introduction

We need to cover certain early investigations in order to advance a system. It aids in the management of a system's background information. In the future, we will introduce more features to make it easier for customers to buy things and receive them in their hands. Our major objective for this project is to deliver high-quality items to any region of the nation in a short period of time, with little difficulty, at affordable costs, and in accordance with the demands of the purchasers. These programs were created to help ordinary people in times of hardship. Our primary purpose is to deliver high-quality items to any area of the country in a timely and hassle-free manner, at a cheap cost, and in accordance with the needs of the customers. In other circumstances, we've noticed that even after providing a precise delivery time, several superstores are late in delivering the items. Ordinary people suffer a lot in this situation, but we will attempt to protect them from harassment and deliver the items in a timely manner. People in rural parts of our nation are unfamiliar with these supermarkets. They don't have much information about them... We'll make arrangements for these persons to have easy access to this service. We will ensure that our superstore is completely secure. We have an excellent relationship with the customer and our aim; therefore, business isn't merely our major purpose. We plan to make our superstore an international success... In the future, we will strive toward this aim.

#### 2.2 Problem scope

Every management wants to have full control of real-time information for our Business. All subsystems must be connected -so the process can be optimized. It must be online. If there is a money problem or product (customers satisfaction) problem during online shopping. Like customers have to visit many webs site for a different product. Customers may explore the product catalog and add goods to their basket. Customers can proceed to the checkout process as long as their shopping cart is not empty. When customers go through the checkout process, they will be asked to log in or establish an account if they do not already have one. The credit card on file for the customer's account will be charged for the order. When registering for an account, customers must submit their full name, email address, phone number, credit card number, and billing address. He will mark the order as paid and transmit it to the Courier Company, who will deliver it to the customer, once the order has been charged. If a customer's purchase contains products that are out of stock, the order will be placed on hold. The order is sent to the courier firm for delivery once the products have arrived. If the order is indicated as a present, the products will be packaged as a gift. If the things are damaged when they arrive, the consumer

can return them to the online store's register. The item will be collected from the customer, and the money will be refunded. The product catalog is kept up to date by marketing personnel. They may also create a promotional item list and send consumer promotional emails.

### **2.3 Related Works**

Our project is an online management solution for a superstore. This is a project that will be completed over the internet. Family Trust, Best Buy, Hobby, Book Point, and a number of other prominent big stores are comparable to ours. However, we attempted to approach things a bit differently. Our super shop will be able to deliver much faster than other super shops. From various superstores, sophisticated and constantly fresh things may be discovered here. This superstore's payment options are more extensive and convenient than those offered by other superstores. Cash on delivery is available for our superstore items, as well as the option to pay by card and, in many cases, by the bank. This distinguishes our superstore from others and makes it acceptable for public usage.

### **2.4 Challenges**

We're starting with home delivery in a few places, but we'll strive to expand to the rest of the country to make this idea even better. Supermarkets, as we all know, do not have a return policy. If a product has a problem or is no longer useful after purchase, it should be replaced with another. However, we will make every effort to pay the customers in full. However, if they believe they will use another product, they will have access to our facilities as well as our superstore. Other super shops' delivery prices will be significantly lower, and the largest benefit is that by having an account in our superstore, other shops will be able to buy and sell our items from here. We are all aware that the majority of people in our country are from the middle and lower classes. Some customers are hesitant to acquire goods online because they believe they may not receive the same item. These concepts have a stronger influence on the rural populace in most circumstances. They believe that shipping fees and megabytes are significantly higher. This is our one-stop shop for transforming people's minds. Our superstore will do all possible to dispel this notion and foster trust and confidence in them. In the future, we'll collaborate with cyber security to keep our superstore cash-flowing and consumers safe from harassment. So that dishonest traders and cunning mahals can't question us utilizing the mega shop's name and emblem. We'll be extra cautious in this scenario. We will aim to keep a wide variety of domestic and international items in our mega shop in the future so that we can easily supply our products to individuals from all walks of life both inside and outside of the country. Our first objective is to persuade people to believe in us and to provide them with the best possible product.

## CHAPTER 3

### REQUIREMENT & DESIGN SPECIFICATION

#### 3.1 Business Process Modeling

Business process modeling is the analytical representation or put simply an illustration of an organization's business processes.

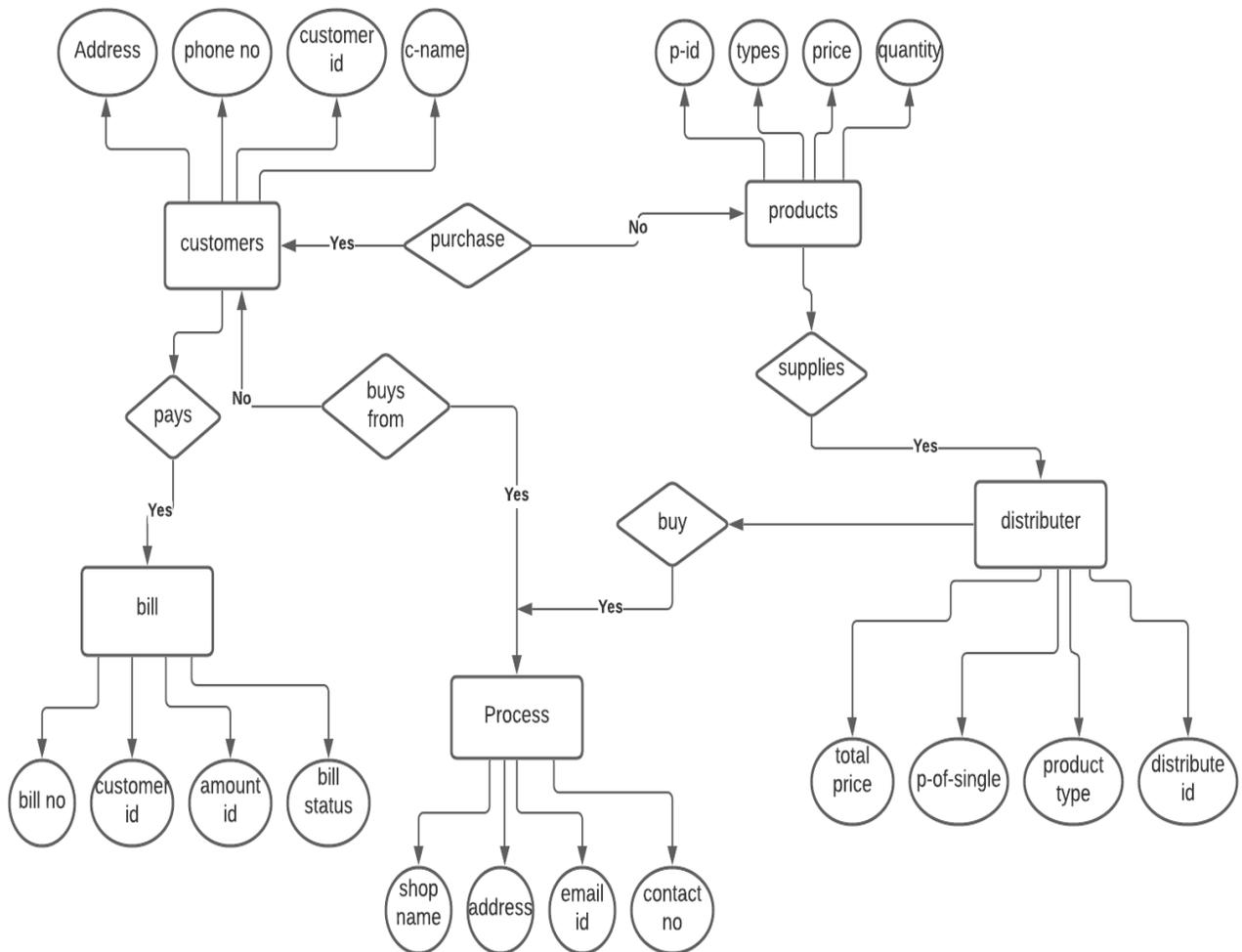


Fig. 1: Business Process Modeling.

### 3.2 Analysis

An important aspect of every endeavor is the analysis. A project will never be completed correctly without adequate analysis and planning. The project delivery time has already been specified while we are developing it. As a result, project work must be planned and carried out in accordance with the deadline. Our proposal is a web-based online management solution for a Supermarket. When we first started thinking about this project, analysis was a major hurdle. We discover several crucial traits that will help our project when we begin the investigation.

### 3.3 Hardware and Software Requirement

If you're going to install software or hardware on your computer, be sure it meets the system requirements first. We need an internet connection-based system hardware such as computers, laptops, tablets, smartphones and so on. We have used some software tools and platforms for development as described below:

- HTML
- CSS
- Bootstrap
- PHP
- jQuery
- JavaScript

### 3.4 Use Case Modeling and Description

Fig. 2: Use Case Modeling

A use-case model depicts how various sorts of users interact with a system in order to solve an issue. Use cases, actors, and their interactions are the most significant model parts.

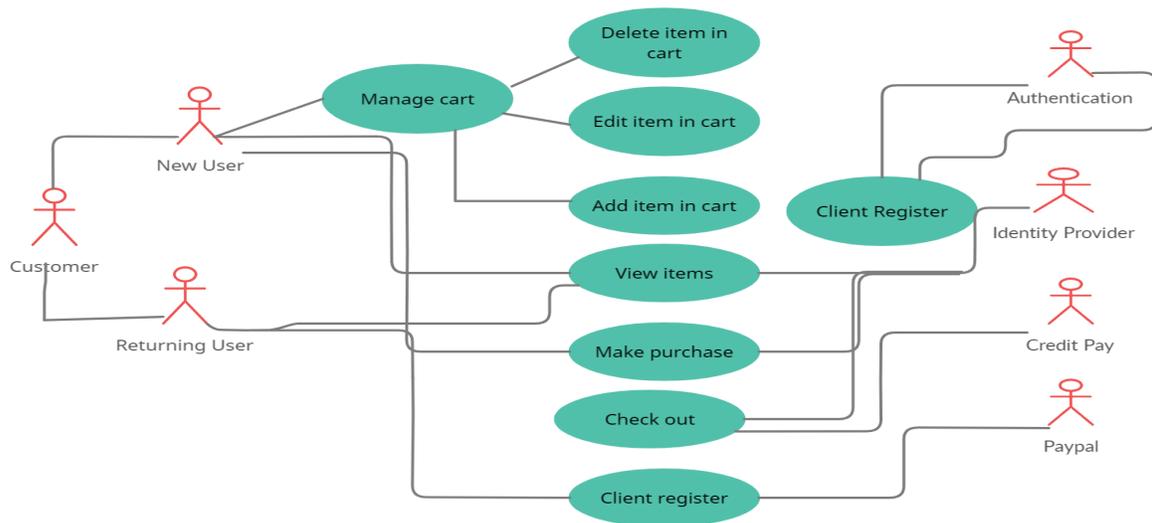


Fig. 2: Use Case Modeling.

#### Description:

##### Case 1: Login is an example of first use.

Primary Customer, Admin, and User are some of the characters who appear in this film.

Pre-requisite: Registration must be completed.

Scenario for Main Success:

- In the email field, the actor enters his or her email address.
- The actor enters his or her password in the password box.
- The actor logs in.
- The password is incorrect
- You have no password.

### **Case 2: Product Location**

User Preconditioning: Primary Actor has just signed up for the first time.

Main Success Scenario:

- Actor searches for Product.
- The actor looks at Product Exception Scenario .
- The product list cannot be empty.

### **Case 3: Purchases**

Main Success Scenario:

- Actor examines things Precondition: Actor has just logged in
- The actor chooses the objects that will be used in the scene.
- Actor's place orders for objects Exception Scenario
- Items cannot be left unfilled.

Service Authentication is the fourth use case that we'll look at.

### **Case 4: New user is the main actor**

Actor just logged in as a precondition.

1st Success Scenario:

- The actor observes objects
- Purchases by the actor
- The actor removes the things from the schedule.
- The cart cannot be empty.

### **Case 5: Locate a source of identification**

Consumer, User, and Payment are the main actors in this story.

Actor just logged in as a precondition.

Actors look for a remuneration mechanism in the main success scenario.

Actors look at a list of payment systems.

- The user needs to locate PayPal.

**Case 6: Check-out is the sixth use**

Clint registers as a primary actor. Actors can modify or remove passwords in two ways

- The user must just check out.

**3.5 Activity Diagram**

Fig. 3: Customer Side Activity Diagram.

The activity diagram is used to describe the flow of activity through a series of actions.

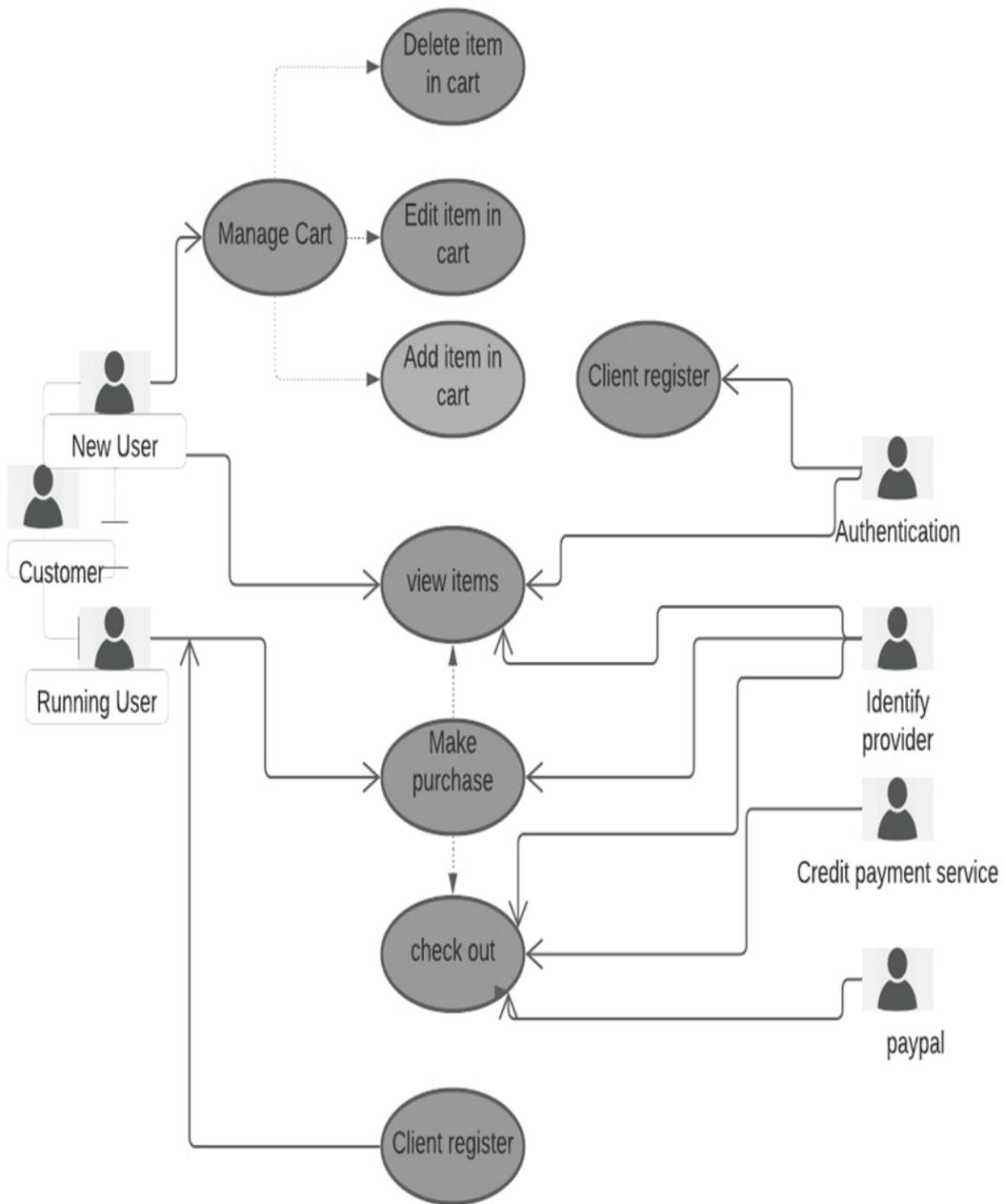


Fig. 3: Customer Side Activity Diagram.

Fig. 4: Activity Diagram for Admin Side.

An activity diagram is a useful tool for describing a system. The activity is defined as a system action or operation.

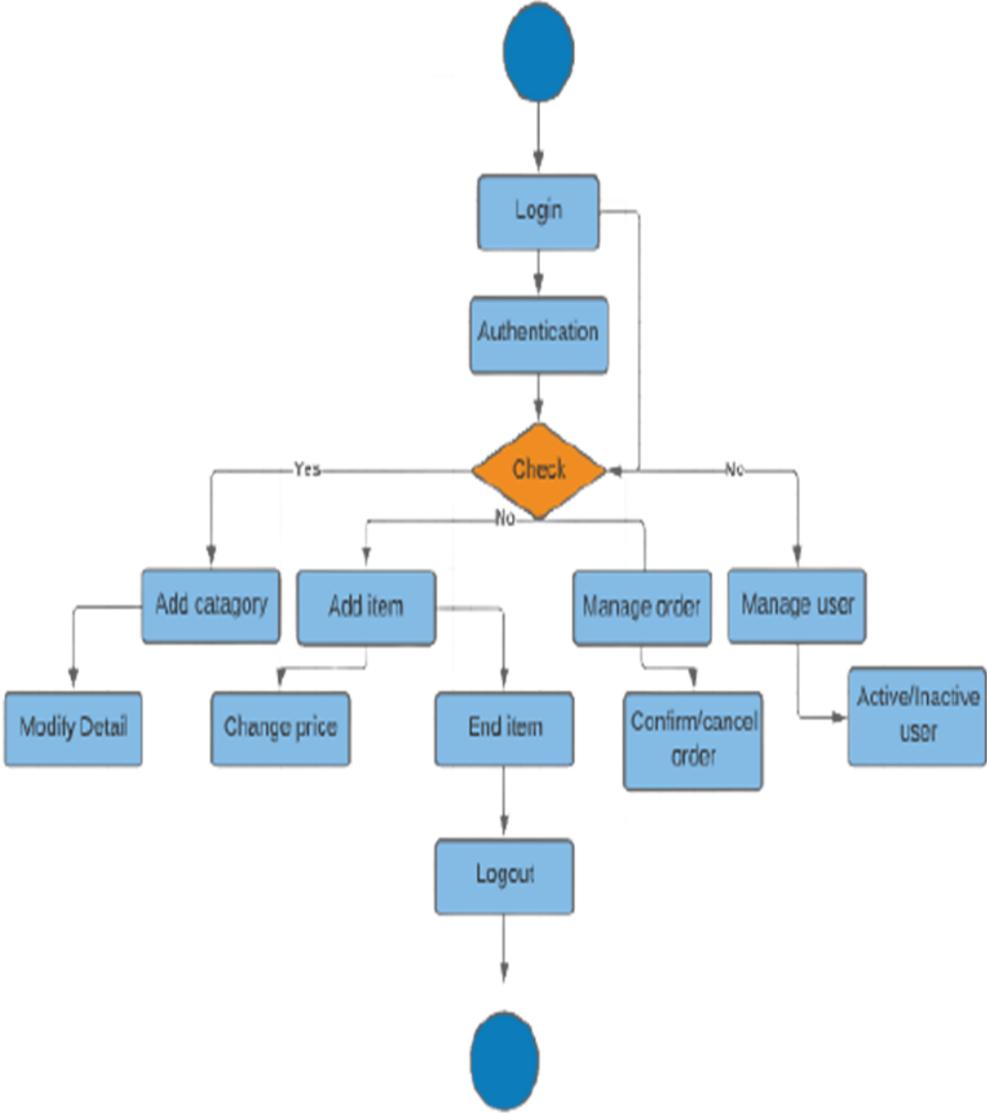


Fig. 4: Activity Diagram for Admin Side.

Fig. 5: Activity Diagram for User Side.

All of the functions or operations that users can do on our website are described in the User Side Activity Diagram.

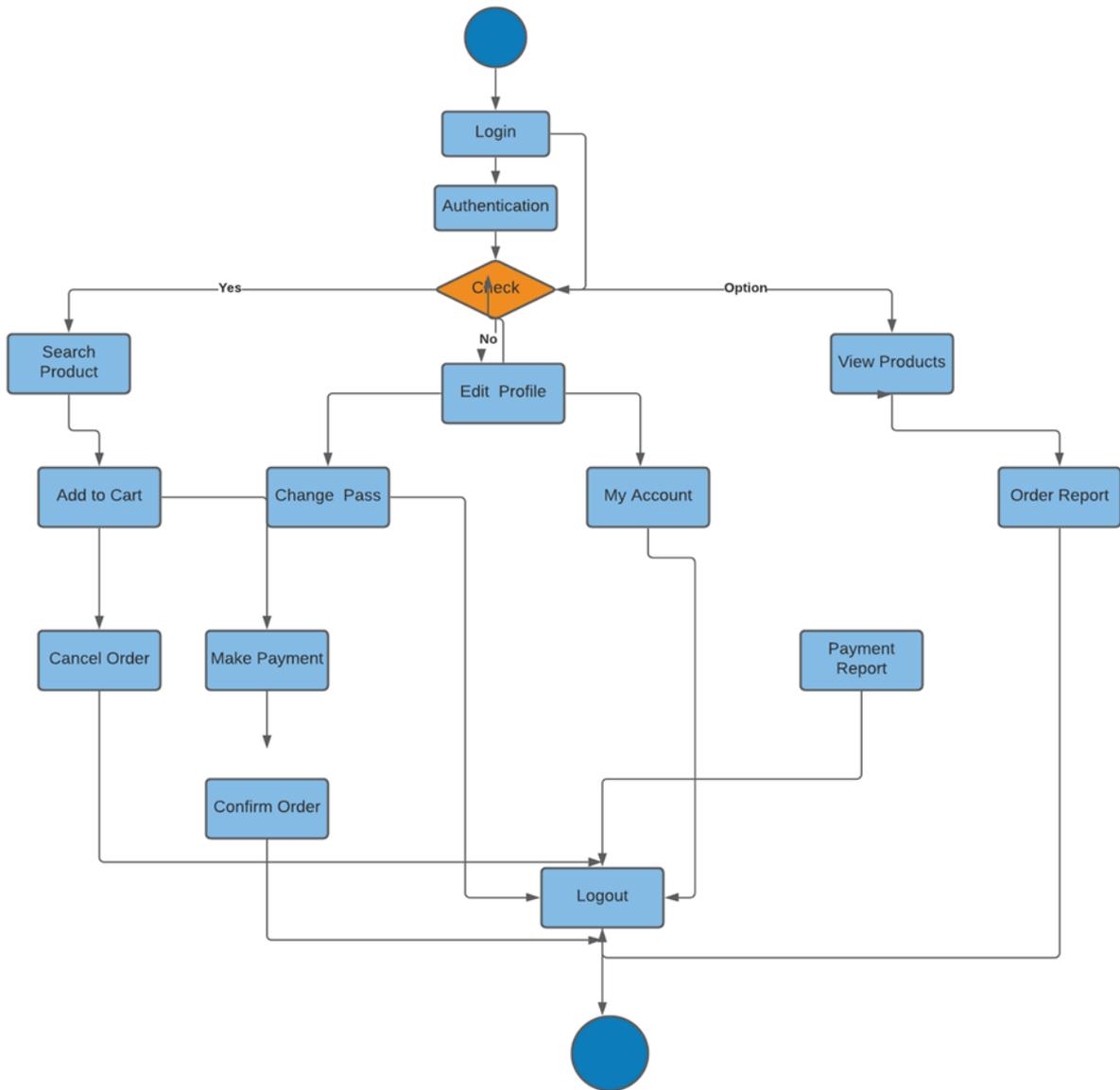


Fig. 5: Activity Diagram for User Side.

Fig. 6: Shopping Order Activity Diagram

This shopping order activity diagram template is worth a try if you want to learn more about how to fill a shopping order.

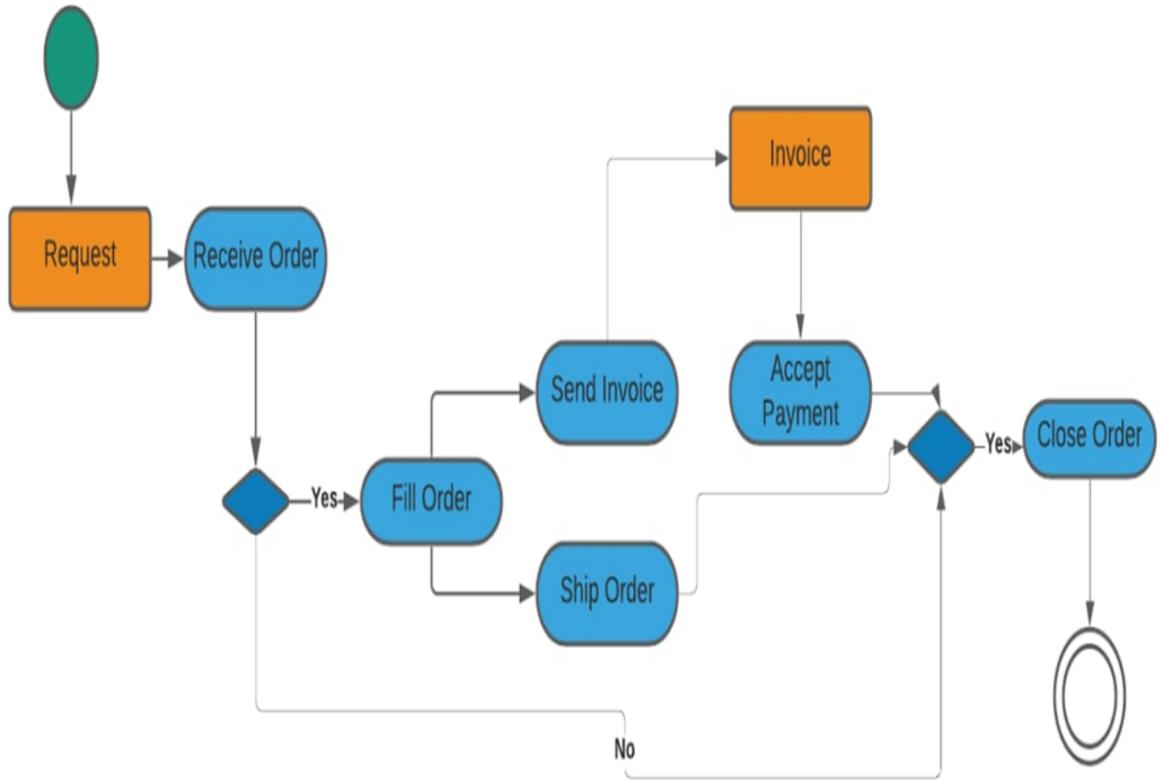


Fig. 6: Shopping Order Activity Diagram.

Fig. 7: Shopping Cart Activity Diagram For Customer Side

Customers who shop online can explore or search for things, see particular items, add them to their shopping carts, view and update their shopping carts, and then check out. The shopping cart may be seen at any moment by the user.

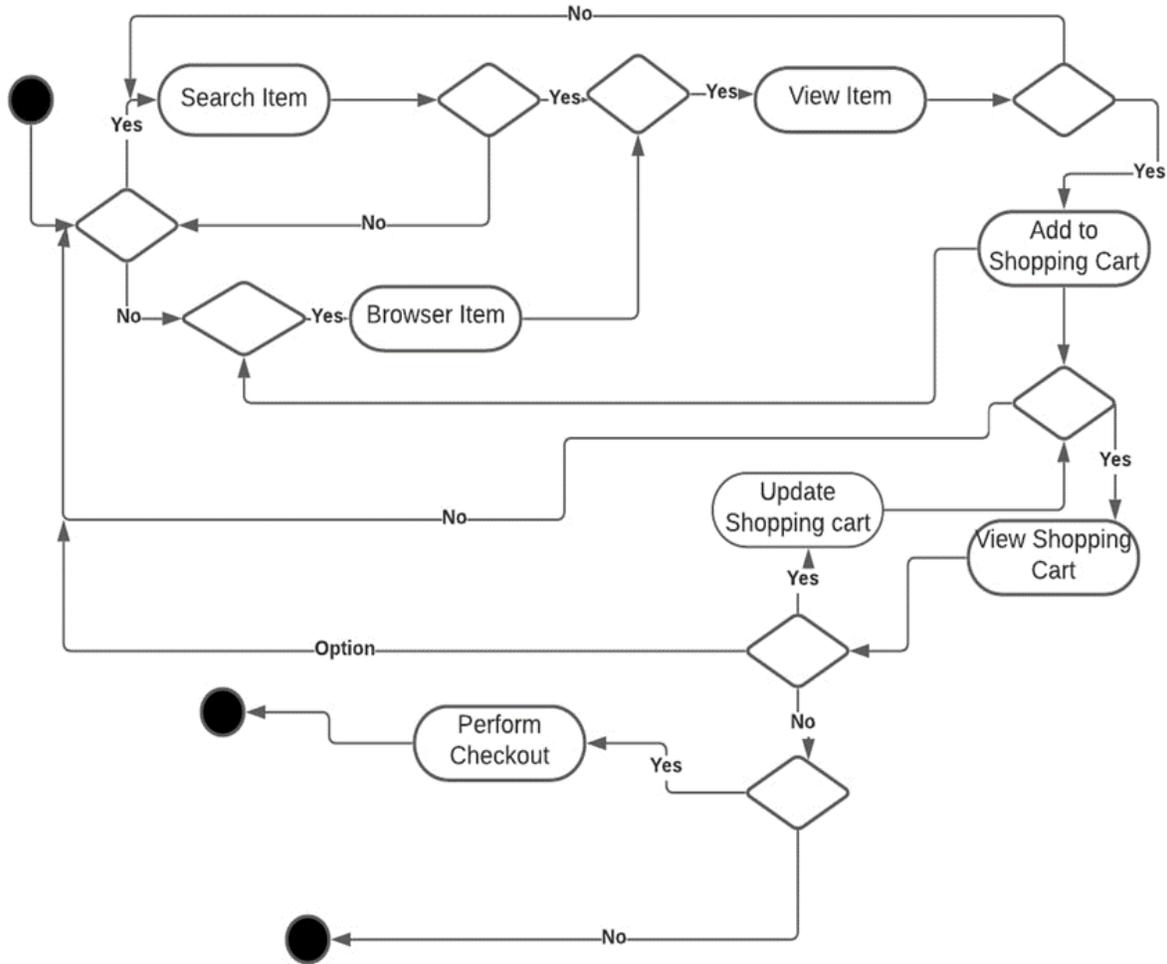


Fig. 7: Shopping cart activity Diagram.

Fig. 8: E-R Diagram

In a certain topic of knowledge, an entity-relationship model represents connected items of interest.

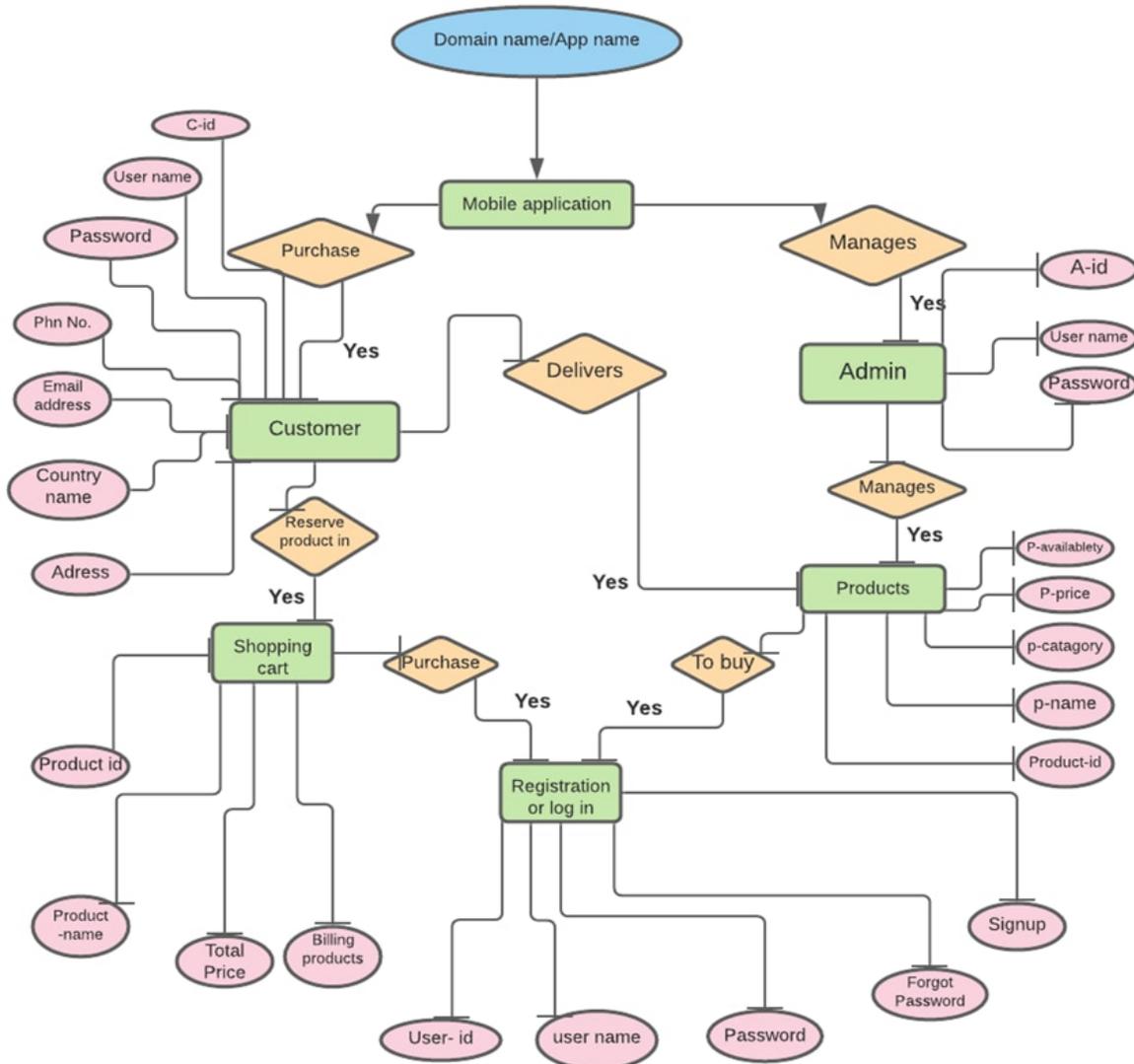


Fig. 8: E-R Diagram of the online super shop management system.

### **3.6 Design Requirements**

To make a project efficient, we consider several needs while designing software or a system. We attempted to create a web application that is user-friendly. Our system's user interface is so straightforward that anyone can use it without difficulty. We created a business process model, use a case diagram, activity diagram, and logical data model to better understand the situation.

For the design of our database we chose:

- MySQL.
- HTML.
- Bootstraps.
- JavaScript &
- CSS for the front-end design.
- For back-end development, we used the PHP framework.

### **3.7 Front-end Design**

The front end is usually divided into two halves.

- Web design and development
- Web development on the front end

For our front-end design, we employ HTML, CSS, Bootstraps, and JavaScript. Fonts, font amazing, login forms, registration forms, and so forth are examples of them. We've included various store page front-end designs in this area.

### **3.8 Back End Design**

The backend is usually divided into three sections.

- A computer server.
- A submission25.
- Create a database.

The data that is required by the program is entered by the user and stored in a database that was generated on a server. We mostly employed the PHP framework, among other things.

### **3.9 Implementation Requirements**

This section's primary goal is to make everything simpler, more helpful, and user-friendly. We were provided a great idea for the implementation need. The implementation list is as follows:

Here's what you'll need to be doing:

- Simpler to develop.
- Better to engage with.
- Simpler to access.
- Deightful Dynamic Pages.
- Harder to clean
- Extremely easy to transfer.

## CHAPTER 4

### IMPLEMENTATION AND TESTING

#### 4.1 Implementation of Database

For our database, we utilized “MySQL.” MySQL is a relational database management system that is available as an open-source project. It works as a server, allowing several users to administer and build databases. It's a key part of the open-source web application software MySQL and PHP, which are used to create websites. By connecting Xampp to MySQL, this database was built.

#### 4.2 Implementation of Front-end Design

Fig. 9: Super Shop **Main Page**. To access the website and utilize it, a user must first log in.

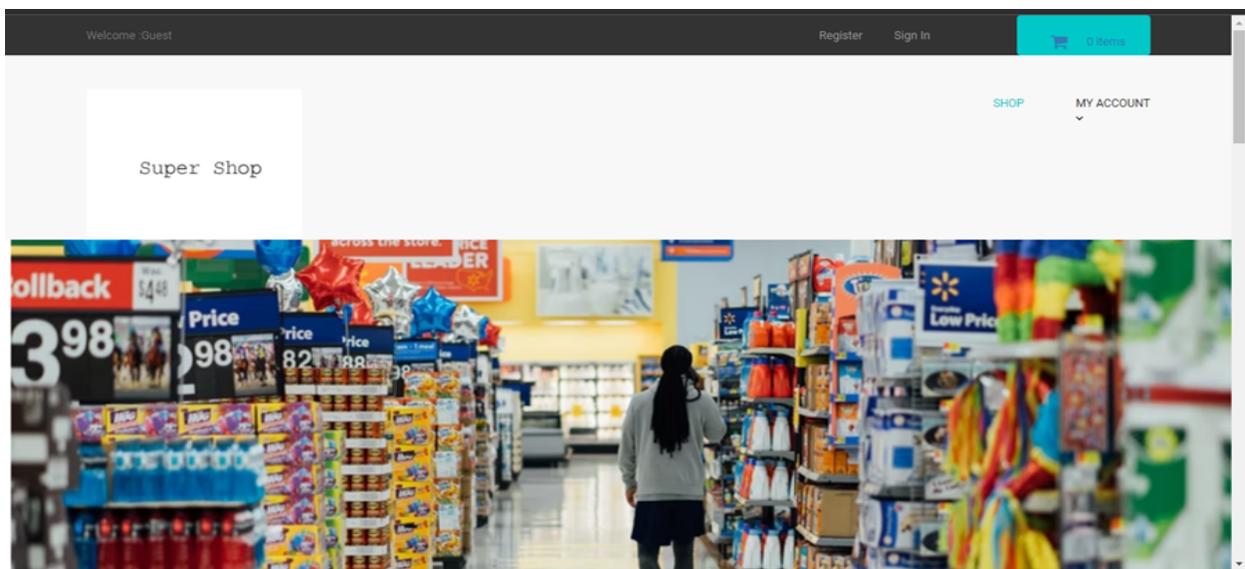


Fig. 9: Super Shop Home Page.

Fig. 10: This is our **Featured Collection** page. Featured Products allows you to pick products from your pricing sheets to promote on the storefront for your consumers.

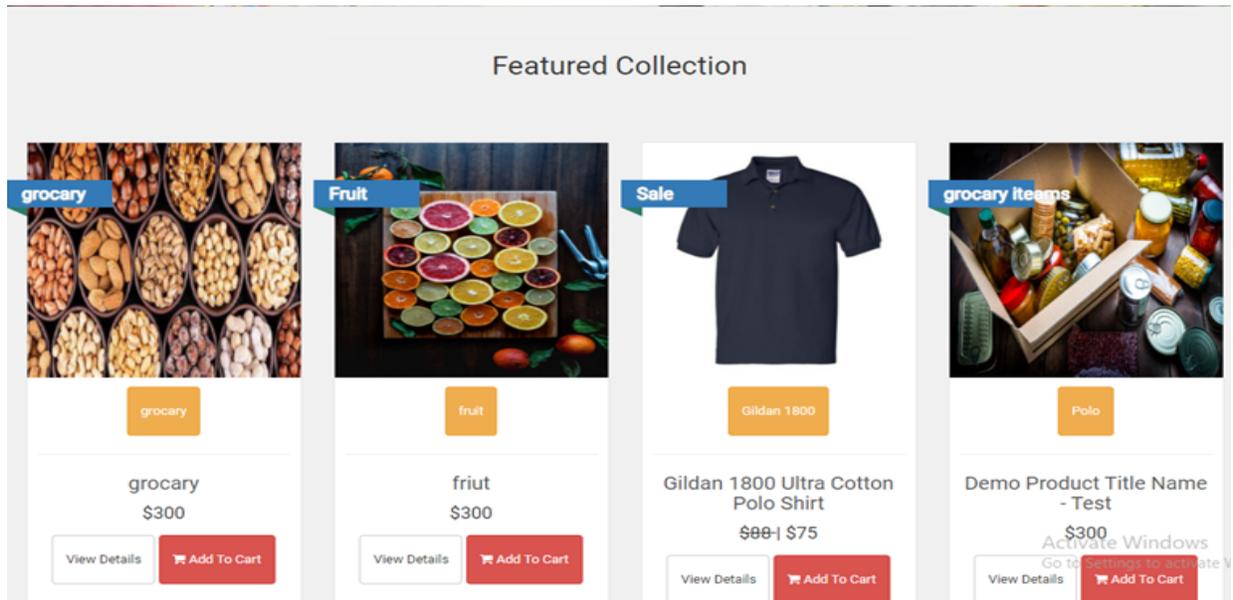


Fig. 10: Super Shop Featured Collection.

Fig. 11: This is the **Registration Page** of “super shop”. Users have to register for access and use.

The image shows a registration page titled 'REGISTER AT AVE' with a city skyline background. Below the title is a form titled 'Register A New Account'. The form has four fields: 'Customer Name' with the value 'Noor Afla', 'Customer Email' with the value 'noor15-1994@diu.edu.bd', 'Customer Password' with a red checkmark and a green 'Strong' indicator, and 'Confirm Password' which is currently empty.

Customer Name  
Noor Afa

Customer Email  
noor15-1994@diu.edu.bd

Customer Password  
✓ ..... Strong

Confirm Password  
✓ .....

Customer Country  
Bangladesh

Customer City  
Uttara

Customer Contact  
01305666666

Customer Address  
House 97 Road 17 Sector 11 Uttara

Customer Image  
Choose File 20-2.png

Register

Fig. 11: Super Shop Registration Page.

Fig. 12: This is the **Login Page** of the “online-based super shop management system”. To log in users, have to enter a valid email and password. If the user forgets the password, then here is an option to recover the password.

Login

Already our Customer

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

Email  
noor15-1994@diu.edu.bd

Password  
.....

Forgot Password

Log in

New ? Register Here

Fig. 12: Super ShopLogin Page.

Fig. 13: This is the **Login Page** of “super shop of **Admin Panel**”. To log in admin, have to enter a valid email and password.

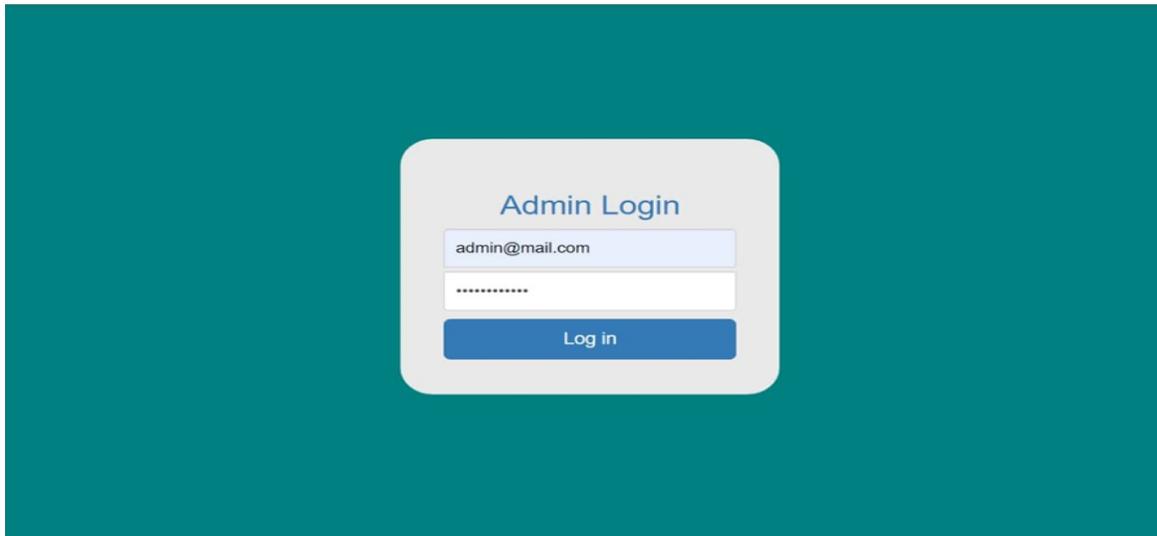


Fig. 13: Super Shop Admin Login Page.

Fig.14: This is the **User Cart** to a section of “super shop”. Here users can find any products, view products such as shares, shoes, T-shirts, etc.

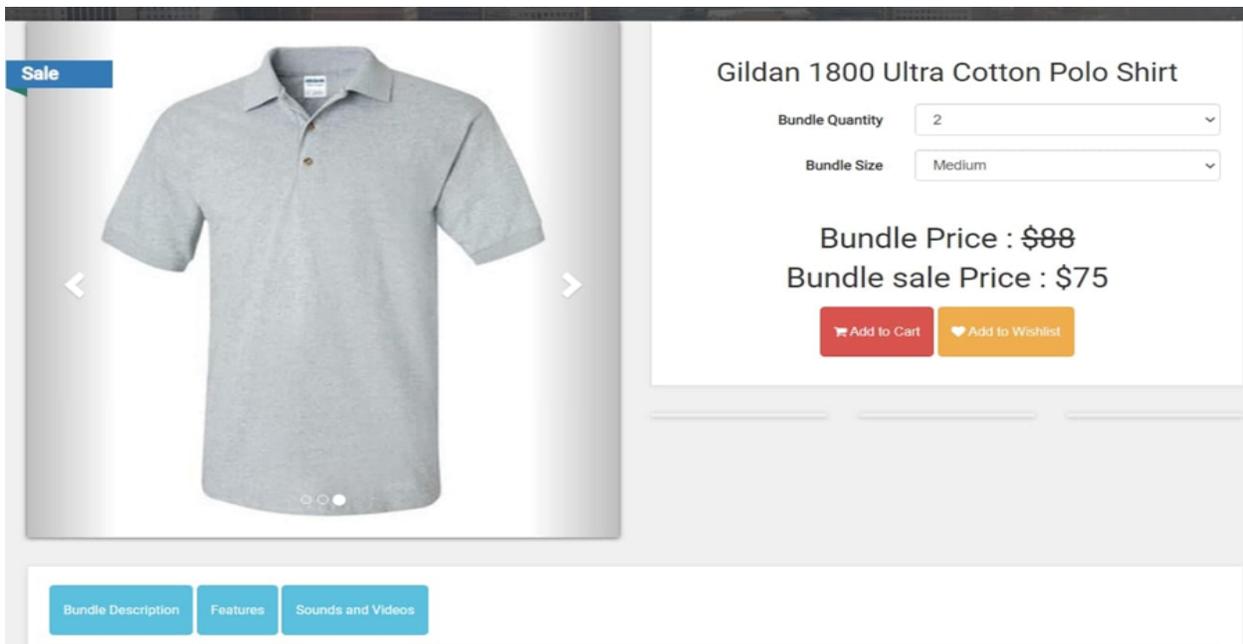


Fig. 14: Super User Cart Page.

Fig. 15: This is the **Admin Dashboard** of “super shop”. Here admin can find any login info., registration info., any products, view products, order products, etc.

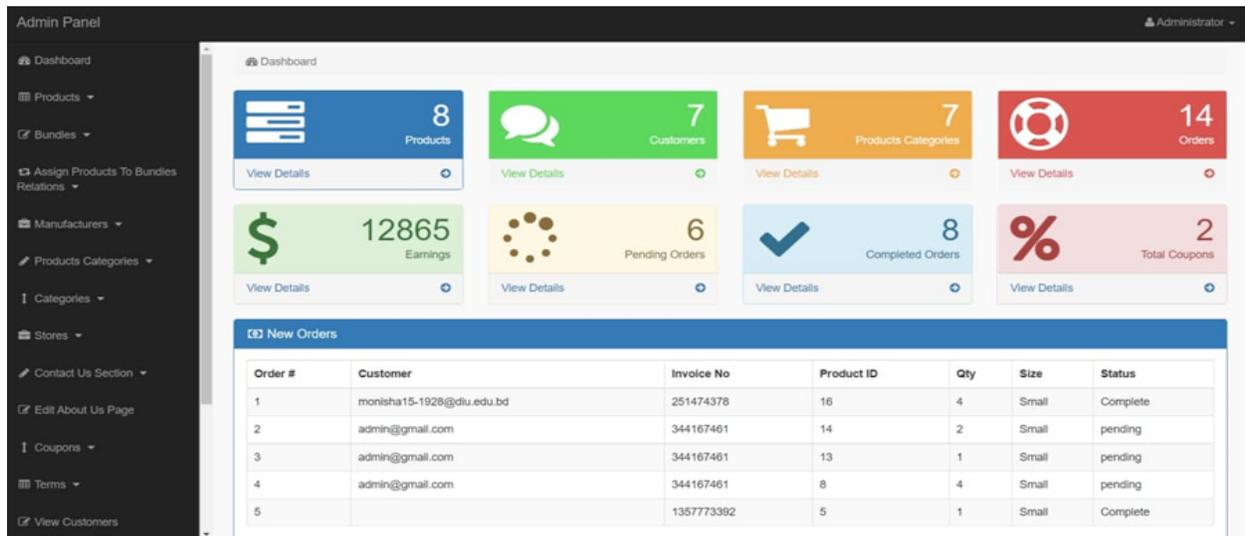


Fig. 15: Super ShopAdmin Dashboard Page.

Fig. 16: This is the **Products Search Option For Users**. Users can search for products by Men, Women.

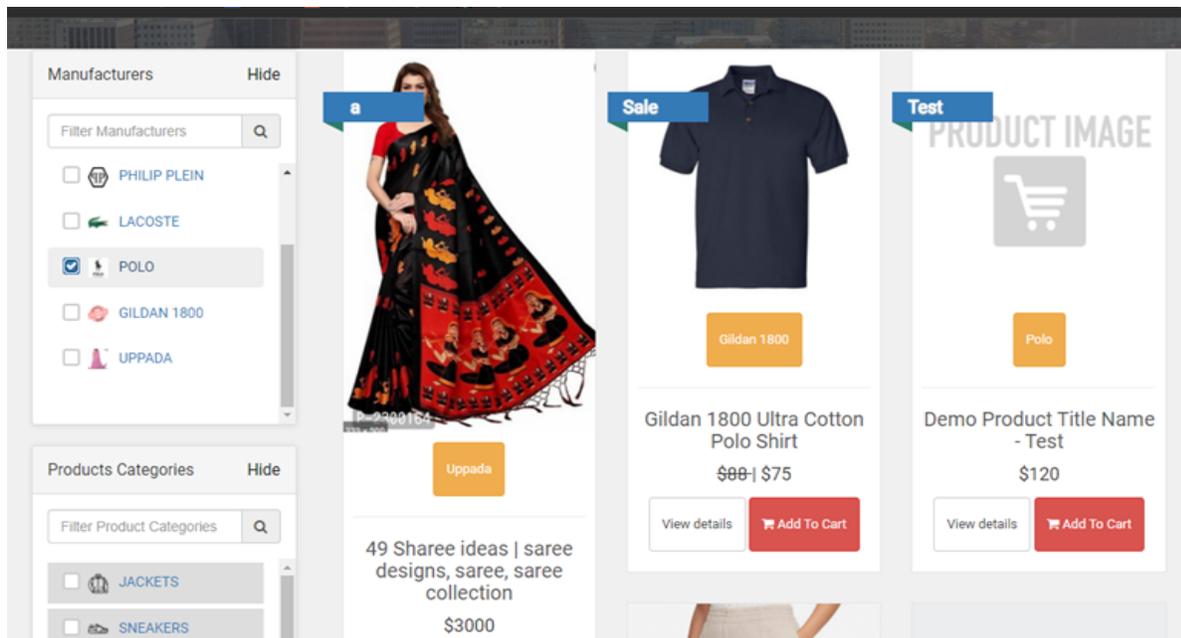


Fig. 16: Super Shop Products Search Option For Users Page.

Fig. 17: After **Admin Approved Pending Order Products** users can see the approval and cancel their approval at any emergency.

#	Customer	Invoice	Product	Qty	Size	Order Date	Total Amount	Status	Action
1		1715523401	Long Sleeves Polo Shirt for Men	2	Large	2017-02-20 14:21:42	\$100	Pending	Delete
2	demo@customer.com	1762810884	Ultraboost 21 PrimeBlue Shoes	1	Medium	2021-09-14 14:35:57	\$20	Completed	Delete
3	thomas@demo.com	1972602052	Denim Borg Lined Western Jacket	1	Large	2021-09-14 22:37:52	\$100	Completed	Delete
4	thomas@demo.com	2008540778	Nike Sportswear Essential Collection	1	Medium	2021-09-14 22:43:15	\$90	Pending	Delete
5	test@customer.com	2138906686	Demo Product Title Name - Test	1	Small	2021-09-15 09:18:41	\$120	Completed	Delete
6	test@customer.com	361540113	Nike Sportswear Essential Collection	2	Medium	2021-09-15 09:25:42	\$180	Completed	Delete
7	demo@customer.com	858195683	Denim Borg Lined Western Jacket	1	Large	2021-09-15 09:14:01	\$100	Completed	Delete
8	customer@mail.com	901707655	Sleeveless Flaux Fur Hybrid Coat	1	Medium	2021-09-15 09:52:18	\$245	Completed	Delete
9	customer@mail.com	2125554712	Gildan 1800 Ultra Cotton Polo Shirt	1	Large	2021-09-15	\$75	Pending	Delete

Fig. 17: Super Shop Pending Order Products Page.

Fig. 18: This is the **User Profile**. So users are easily able to edit their profile information.

Fig. 18: Super Shop User Profile Page.

Fig. 19: This is our **Admin Logout** page.

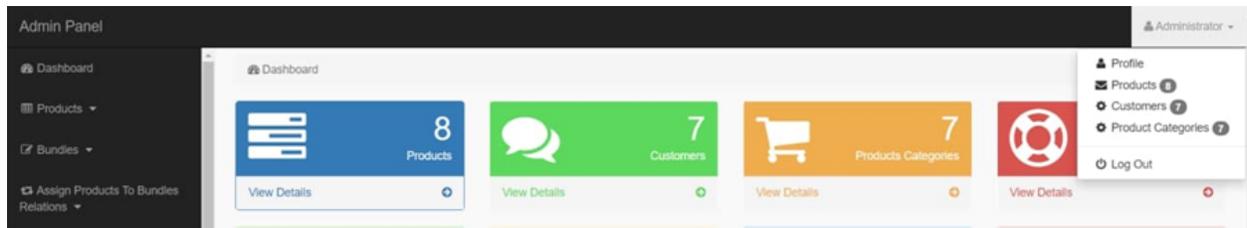


Fig. 19: Super Shop Admin Logout Page.

### 4.3 Implementation of Interactions

Interactions are commonplace in the current system. It is essential for a system to be dynamic and appealing to consumers. It's also critical to make a system interactive. As previously said, we attempted to create a user-friendly and engaging platform. It should be done in such a way that the user is drawn in.

### 4.4 Testing Implementation

The goal of this test is to see how well our system adheres to the defined requirements. We tried to make this system secure. Every single piece of data that a user inputs into our system must pass the test.

## 4.5 Test Result & Reports

Table. 1: Registration and Login Test Case

SI No	Test Case	Input	Expected Outcome	Actual Output	Result
1	Check your email	in the absence of input	Invade the email system	Invade the email system. A must-have	Passed
2	A working phone number	Enter a numeric value	Correct	Correct	Passed
3	Phone number is incorrect	Enter a character	Incorrect	Numeric value required	Passed
4	Special character	Input special character	Special character not allowed	Not allowed	Passed
5	Image insert	Must insert image	Correct	Image required	Passed

Table. 2: Input User Information Test Case

SI No	Test Case	Input	Expected Outcome	Actual Output	Result
1	Display the web page	Tested on us browser, chrome	Display Successful	Display Successful	Passed
2	User name	Wrong	Login failed	Login failed	Passed
3	Blank or Incorrect pass	Wrong password	Login failed	Login failed	Passed
4	Username	Input Character	Special character not allowed	Letter and whitespace allowed	Passed

## CHAPTER 5

### CONCLUSION AND FUTURE SCOPE

#### 5.1 Discussion and Conclusion

Working on the online megastore system is a lot of fun. After completing the assignment, we were presented with a number of difficult difficulties. The online superstore system is becoming an increasingly vital aspect of our culture. As a result, we have chosen to construct this system. We looked into a lot of systems to see where we should go with ours. We communicate with folks to determine what sort of issue they are dealing with. They were overjoyed to accept this approach since it provides them with some comfort in this contemporary world. Despite our accomplishments, completing this project presented several hurdles. After all, since it's a web-based system, both the administrator and the user must adhere to the rules in order for the system's aim to be achieved. In the future, we plan to work extensively with our website. It is common knowledge that it is never too late to join the digital era. We must stay up with the times now that everything has joined the age of the internet. So, with this in mind, we'll increase the profitability of our supermarket.

#### 5.2 Scope of Further Development

The online system is a dynamic system that is continually changing. It improves with each passing day, making life simpler for everyone. This might be a game-changing online application that improves the user-administrator relationship. In the future, we believe we will be able to improve this system. In the future, the user interface and advanced functionality will be enhanced. Our system is already user-friendly, but we will continue to work to improve it.

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