



## **Super Shop E-Commerce**

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This project report has been submitted in fulfilment of the requirements for the degree of **Bachelor of Science in Software Engineering**

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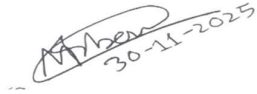
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# **Super Shop E-Commerce**

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Project submitted in fulfillment of the requirements  
for the award of the degree of  
Bachelor of Science

Department of Software Engineering

DAFFODIL INTERNATIONAL UNIVERSITY

30 November 2025

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APPROVAL

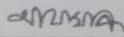
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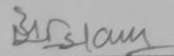
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## ABSTRACT

“SUPER SHOP E-Commerce Website” project aims to establish a robust online platform for facilitating seamless buying and selling experiences. The platform is designed to cater to a diverse range of products, providing users with an intuitive interface to explore, select, and purchase items of their choice. In this project admin can easily add new category with different product from this, also admin can add new product, admin can view the latest product also, admin can manage payment system. In user dashboard user can order product and add to card, after finding a product, when product add on card user will get a notification user can pay by e-banking. User can contact with admin anytime also admin can do like this.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Background

The SUPER SHOP E-Commerce Website is a comprehensive platform designed to give a flawless online shopping experience for druggies and effective product operation for admins. Using a secure process, druggies have the capability to produce an account and log in and out fluently. The platform comes with a shopping wain point that enables druggies to add, view, and edit particulars before moving to checkout. Its checkout process is simplified, furnishing step- by- step instruction, while secure payment styles like Cards are integrated so as to guarantee safe deals. Specific word includes boons to add edit/ delete products, like the below mentioned, and order operation, where admins can manage both orders and sub-categories and set stoner warrants. Control over the process is still kept as admins review and authorize client orders. also, it allows druggies and admins to communicate back and forth in real- time, with druggies reaching out to admins to address their inquiries so that they can admit responses from them, therefore bringing translucency and satisfaction. In conclusion, the SUPER SHOP E-Commerce Website is a stoner-friendly, functional, and secure online shopping platform that provides a flawless shopping experience.

#### 1.1.1 Context and Relevance

Above The SUPER SHOP E-Commerce Website was created to meet the adding need for online shopping, which has come a significant aspect of the way people buy and vend goods in ultramodem- day. With an adding number of people using the internet, as well as There formerly being a tendency of consumers steering towards the operation of smartphones, shopping online has proved to be much more accessible and more sustainable than ever. People enjoy the convenience of ordering effects in the comfort of their homes, they like to have an instant access to a variety of products, plus secure payment styles. At this point, multitudinous e-commerce platforms in 2025, are working on having stoner-friendly websites with easy payment options and quick client support. still, some challenges still live, like keeping stoner data safe, managing products efficiently, and making sure druggies stay interested in the platform. This design tackles these challenges by furnishing a secure and stoner-friendly platform. It allows druggies to browse and buy products fluently, while admins can manage the website effectively by adding products, organizing them into orders, and reviewing orders. With a erected- in messaging system, druggies and admins can communicate directly for better support and translucency. Also i used payment system for Bangladesh (Stripe) for outside of country people can use transnational e-banking system This makes the FRASHER SUPER SHOP E-Commerce Website a helpful and applicable result for moment's online shopping requirements.

### **1.1.2 Problem Identification**

I got several challenges commonly faced in e-commerce platforms, including issues with mail verification, payment gateway systems, and attracting and retaining buyers.

### **1.2.3 Purpose and Justification**

This design is principally erected for the convenience of buying and selling products online. My family has a Facebook shopping runner from which she sells products online. In that environment, SUPER SHOP has been created to make business more dynamic. This is principally a web grounded e-commerce point. It's made in a veritably simple way so that anyone from freshman to advance can use it veritably fluently. Anyone can visit the point without registering. To view the products, choose product.

### **1.2.4 Scope**

The compass of the SUPER SHOP design defines the specific features, functionalities, and boundaries of the system that will be delivered. This e-commerce platform focuses on furnishing a presto, scalable, and stoner friendly online shopping experience with secure part- grounded part grounded part-grounded Accept Dismiss access and effective product operation workflows.

**User Role:** Normal users, Delivery Boy, Admin.

#### **Core features:**

- Product browsing, submission, review, reporting.
- Dashboard for user, admin, delivery boy.
- wain, checkout, order operation.
- Blogs module.
- communicate Us.
- Manage return products.
- Payment Subscription for decoration features.

**Security:** JWT authentication, part- grounded access.

**Tech stack:** Next.js, Node.js, MongoDB, Express.js

## **1.2 Project Planning and Initiation**

### **Feasibility Study (Step-by-Step)**

In my SUPER SHOP E-Commerce Website feasibility study, you are assessing the feasibility of your project, how successful you can be, users and admins cannot be closed without assessing the features planned.

#### **Phase 1: Preliminary Analysis & Project Scope**

##### **Definition:**

Some More Important Information From The Publisher publishes its own unique content, which it usually does.

Features: User registration, shopping cart, admin user product management, payment portal, communication between users and admin.

The platform is to be built with the help of web development technologies to ensure security, scalability, and ease of use.

#### **Phase 2: Market Feasibility Analysis (or Market Research)**

SUPER SHOP E-Commerce Website Involves identifying the target audience, assessing on trend, and understanding competitors.

Key Focus Areas:

1. Target Audience Technology- smart people between 18- 45 times old.
2. Market Trends Examining trends similar as mobile shopping, secure payments, and substantiated gestures to acclimatize to stoner conditions.
3. contender Analysis contender analysis involves assaying the strengths and sins of your challengers along with their pricing strategy in the e-commerce terrain.
4. Consumer Needs — Understanding what consumers want, be it product diversity, simple navigation, secure payment, client support etc.
5. Pricing Strategy assessing contender pricing and client amenability to pay for products and services.

### **Phase 3: Technical Feasibility Analysis:**

Structure Assess the specialized conditions and structure demanded for website development, hosting, and conservation. Technology Stack estimate the suitable of technology for web development, considering scalability, security and performance. Integration with Third- Party Services assessing the feasibility of integrating payment gateways (e.g., Stripe), dispatch services (e.g., Mail gun for announcements), and any other third- party services demanded for the platform (e.g., shipping services). Security Measures icing the platform can be erected securely to cover stoner, and measures help hacking or unauthorized access. Use SSL.

### **Phase 4: Financial Feasibility Analysis:**

Financial feasibility analysis seeks to establish the financial requirements in the development of the system and its usage. This includes costs incurred on software and developing application, costs incurred on hardware facilities such as Point of Sale terminals, and costs incurred attached to the regular maintenance of the system. Regarding the solution for small and medium shop owners, the cost efficiency of the solution was also considered. Technology has been used to minimize costs and capable of setting competitive prices in order to make the project economically viable in the target market. However, increased operational productivity and the likelihood of more income through connection to Internet shops make the system a sound venture for store proprietors. By systematically going through these phases, the feasibility study ensures that the project as a logical, plausible and worthwhile attempt to enable the departmental stores in Bangladesh with a modern, effective and competitive solution

## **1.3 Target User Profile and Tentative Elicitation Process**

### **1.3.1 Target User**

The main target druggies of the SUPER SHOP E-Commerce Website are small and medium store possessors in Bangladesh. These store possessors frequently use outdated styles for managing their force, deals, and client relations. This leads to slow processes, miscalculations, and detainments, making it hard for them to grow and satisfy their guests. They also struggle to contend with larger stores. The alternate target group includes store directors and staff, who'll use the system for everyday tasks like streamlining force, handling orders, and processing payments. These druggies need a simple and easy- to- use system that's compatible with original payment styles like Card or Cash. The Super Shop Ecommerce Website aims to fulfill the requirements of these druggies, by furnishing a simple, cost-effective and easy- to- use platform that assists them when conducting their operations.

### 1.3.2 User profile

**Table 1.1: User Profile for SUPER SHOP**

User Class	Note on Characteristics
Type of user	Users (Customers)
Age range	18-50 years
Frequency of use	Weekly, or whenever they wish to make a purchase
Mandatory	Users must register to place orders
Computer experience	Basic to intermediate; familiar with browsing, shopping online, and using e-commerce websites
Education	High school diploma or higher
goal	To browse and purchase products easily and securely
Language skills	Proficient in Bengali and/or English
Number of users	Large number (many customers)
Training	Minimal to no training required, as the interface is user-friendly
Others system use	Familiar with using e-commerce websites or apps
Way of working	Users browse products, add items to their cart, proceed to checkout, and make payments through secure options like e-banking.

**Table 1.2: Admin Profile for SUPER SHOP**

User Class	Note on Characteristics
Type of user	Admin
Age range	30-50 years
Frequency of use	Daily, or multiple times a day to manage products, orders, and customer requests
Mandatory	Yes, the admin must be actively involved in managing the platform's back-end
Computer experience	The e-commerce platform, ensure smooth operations, handle inventory, manage user orders, and oversee payment processing
Education	College and University
goal	To maintain and manage the e-commerce platform, ensure smooth operations, handle inventory, manage user orders, and oversee payment processing
Language skills	Proficient in Bengali and/or English
Number of users	Small, limited to a few admins (1-5 people)
Training	Admins must undergo training on the system's admin panel, product management, order processing, and payment gateway integration
Others system use	Admin panel for managing the website, payment gateways inventory management systems
Way of working	the system's admin panel, product management, order processing, and payment gateway integration, and overseeing payments and deliveries

**Table 1.3: Delivery Boy Profile for SUPER SHOP**

<b>User Class</b>	<b>Note on Characteristics</b>
Type of user	Delivery Boy
Age range	20-50 years
Frequency of use	Daily or multiple times a day to check delivery tasks, update order status, and manage returns
Mandatory	Yes, the admin must be actively involved in managing the platform's back-end
Computer experience	Basic to Intermediate; capable of using dashboard, updating order status, and managing delivery tasks
Education	School and Collage
goal	To deliver products on time, update delivery status, manage return requests, and ensure smooth order completion
Language skills	Proficient in Bengali and/or English
Number of users	Small (1–20 delivery personnel depending on company size)
Training	Requires brief training on delivery dashboard, updating order status, and return product management.
Others system use	Delivery dashboard, mobile app/browser, Google Maps, customer call/SMS system
Way of working	Works physically in the field, receives delivery orders via dashboard, updates delivery progress, and handles returns

### 1.3.3 Elicitation Process

1. Interviews During this stage, one- on- one or group interviews can be held with both guests and admins. This will give you an in- depth view of what they are awaiting.
2. checks Conduct online checks to reach a wider cult and collect data on user preferences and conduct. This allows to descry trends and common problems.
3. Use focus groups Arrange small group exchanges with stoners to gain feedback on the platform's features and design
4. Observation Study stoner geste when they interact with current results or analogous e- commerce platforms to find usability enterprises.
5. Prototype figure a prototype of the website and get feedback from druggies on the design and functionality before doing the full development. Conduct usability testing Identify pain points in navigation and task completion to insure a smooth stoner experience; test the website with real druggies

## 1.4 Project Block Diagram

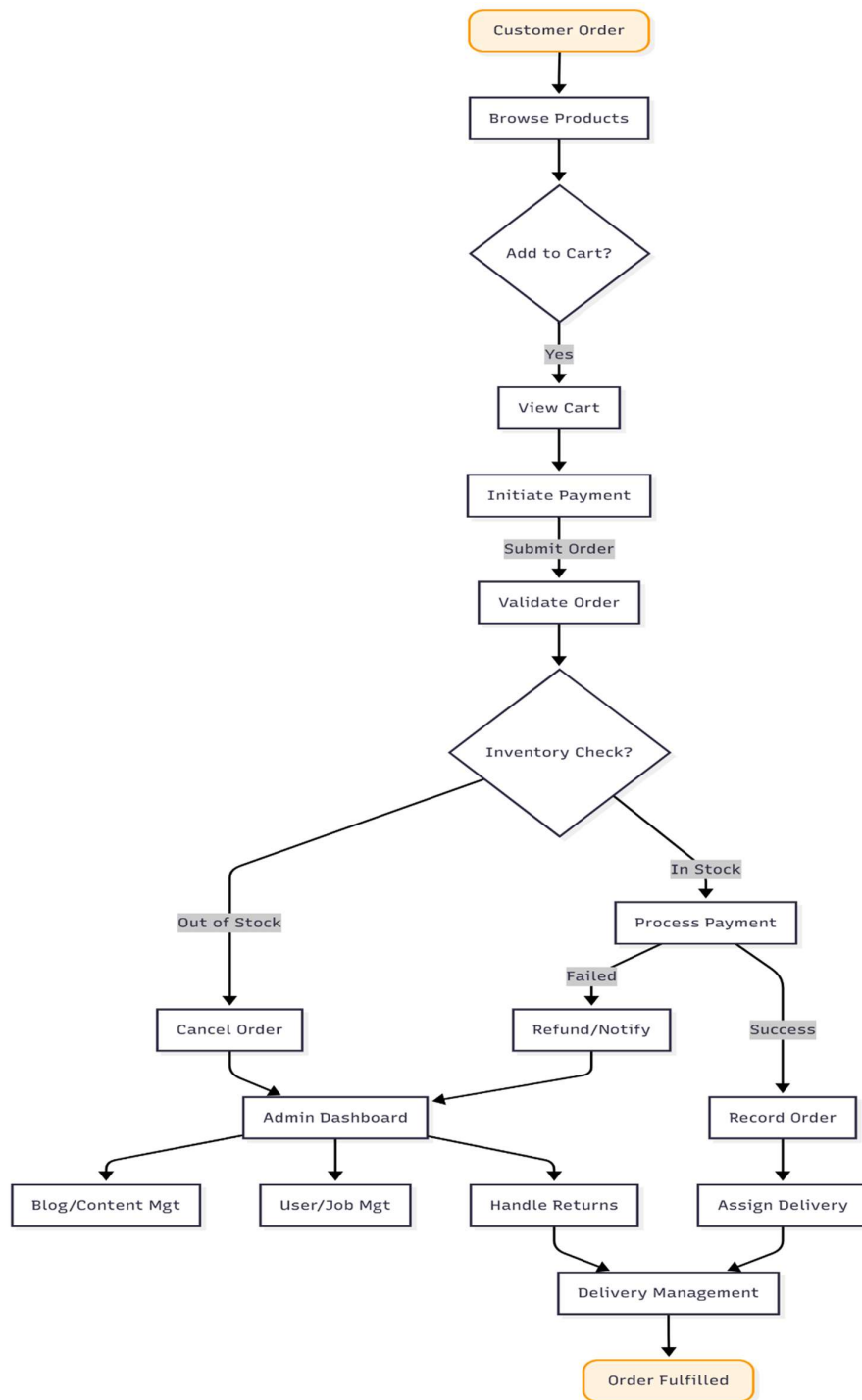


Figure 1: System Block Diagram

## 1.5 Structure Needs

### 1.5.1 Hardware Needs

#### 1. Server Needs:

- Processor: Dual-core or higher
- RAM: A minimum of 4 GB.
- Recommended: 8 GB
- Storage: SSD (Minimum 100 GB)
- Operation System: Ubuntu / Linux or Windows Server
- Web server to use: Nginx or Apache
- Runtime: Node.js (LTS)
- Database: MongoDB
- Network: Stable internet connection

This setup should be enough for the smooth deployment and functioning of an application

#### 2. Client Requirements (End Users):

- Processor: At least two cores
- RAM: At least 4 GB (8 GB is better)
- Storage capacity available = 50GB
- Operating System: Microsoft Windows / macOS / Linux
- Browser: Google Chrome, Mozilla Firefox, or Microsoft Edge (latest version)
- Internet: Constant internet access

These requirements are essential for easy access as well as proper functionality of the web application on the client-side.

#### 3. Admin Panel Requirements:

- Processor: two or more cores
- RAM: 8 GB or more 100 GB of free storage space
- Operating systems: Linux, macOS, and Windows
- Browser: Microsoft Edge (most recent version) or Google Chrome
- Internet: Reliable and fast internet connection

These specifications guarantee efficient administration, oversight, and control of the system via the admin panel.

#### 4. Redundancy and Backup:

- UPS (Uninterruptible Power Supply): A dependable backup option for daily data and website file backups, such as external drives or cloud storage To guarantee uninterrupted operation in the event of a power outage

## 1.5.2 Software Requirements

### Frontend:

- Support for major browsers (Chrome, Firefox, Edge).
- Responsive design for various screen sizes (desktop, tablet, mobile).
- Interactive and user-friendly design.
- Efficient loading of images and other media.
- Use of client-side caching for a smoother user experience.

### Backend:

- Programming Language: Php , Laravel Framework as backend language
- Load Testing: Conduct load testing to ensure the system can handle peak loads.
- Maintainability: Code Maintainability: Specify coding standards and practices for ease of maintenance.

## 1.6 Project Scheduling

### Planning and Time Management for Successful Project Execution

Phase	Duration	Start Date	End Date
Phase 1: Planning & Requirement Gathering	2 weeks	05/01/2025	05/14/2025
Phase 2: Design & Prototyping	3 weeks	05/15/2025	06/04/2025
Phase 3: Backend Development	5 weeks	06/05/2025	07/09/2025
Phase 4: Frontend Development	5 weeks	07/10/2025	08/13/2025
Phase 5: Payment Integration & Testing	3 weeks	08/14/2025	09/03/2025
Phase 6: Admin Panel Development & Testing	3 weeks	09/04/2025	09/24/2025
Phase 7: User Testing & Quality Assurance	2 weeks	09/25/2025	09/30/2025

## **1.7 Summary**

In this chapter we described the SUPER SHOP E-Commerce Website project, its objectives, features, and phases. The buying and selling process will be smooth for both admin and users. The admin can manage the products listing, product categories and orders, whereas users can browse products, add to cart, place orders and pay in a safe and secure way. Construction will begin in May of 2025 and be completed vertical by September of 2025. You trained on phases from planning to design to development to testing and deployment to be structured and efficient. Focus on Small and Medium Scale Business Essential User Experience.

# CHAPTER 2

## DESIGN AND IMPLEMENTATION

### 1.2 Introduction

The SUPER SHOPE-Commerce Website is a ultramodern, high- performance platform designed for scalability, using Next.js for a responsive frontend and a Node.js/ runner backend with TypeScript for robust, type-safe APIs. Data is managed by the flexible MongoDB database, while access is secured via JWT for places like Admin, stoner, and Delivery Boy, and payments are integrated using Stripe or PayPal. The system is completely responsive, provides an intuitive stoner interface with strong hunt/ sludge capabilities, and is erected to handle peak business loads, offering a dependable result for businesses transitioning to the digital business.

## 2.2 Functional Requirements

The website administrator, who also manages the operations of the SUPER SHOP E-Commerce Website, keeps record (date and time) of its visitors. 918 The admin charged with all administrative operations on the platform such as user account management, product listing, category ordering and order processing. Admins manage payments, sea generate sales-reports and interacts with users to keep the system in good working condition. On the downside, you can't search for products or add them to your cart and order online. You can as well manage profiles, monitor orders and make payments through a range of options that will deliver the ultimate online shopping experience.

### 1. Admin

### 2. User

### 3. Delivery

### Boy

FR01	Registration
Description	One has to select the registration menu first, then the entire registration interface will be visible. Admin and Users both have to complete the registration procedure if they visit the system for the first time .
Stakeholder	Admin, User, Delivery boy

FR02	Login
Description	After registering into the system successfully one can easily login to the system.
Stakeholder	Admin, User, Delivery boy

## Login as User

FR03	Our Shop
Description	Browse products, search, and view item details.
Stakeholder	User

FR004	Blog
Description	Read published articles and informational content.
Stakeholder	User

FR05	Add to Cart
Description	Place items in the cart to initiate checkout.
Stakeholder	User

FR06	My Orders
Description	Track current order status and view history.
Stakeholder	User

FR007	Payment
Description	Finalize the order using Card, E-banking, or COD.
Stakeholder	User

FR08	Contact Us
Description	Submit inquiries or support messages to Admin.
Stakeholder	User

FR09	Job Apply Delivery Boy
Description	Submit an application to become a Delivery Boy.
Stakeholder	User

### **Login as Admin**

FR10	User Management
Description	Manage all user accounts, roles, and permissions.
Stakeholder	Admin

FR11	Product Management
Description	CRUD (Create, Read, Update, Delete) control over products, inventory, and categories.
Stakeholder	Admin

FR12	Blog Management
Description	CRUD control over creating and publishing blog posts.
Stakeholder	Admin

FR13	Order Management
Description	Process orders, update status, verify payments, and print invoices.
Stakeholder	Admin

FR014	Add Blog
Description	Admin can add new blog posts to the system. This includes entering the Blog Title, the Content/Body, relevant Tags, and a corresponding Image or thumbnail.
Stakeholder	Admin

FR015	Job Application Management
Description	Review and approve/reject Delivery Boy applications.
Stakeholder	Admin

Login as Delivery Boy,

FR16	Delivery Home Dashboard
Description	In this area a delivery boy after login can saw all kind of system in this admin dashboard.
Stakeholder	Delivery Boy

FR17	View Assigned Orders
Description	Delivery Boy can view a list of all orders assigned for delivery, including customer details and shipping address.
Stakeholder	Delivery Boy

FR18	Update Order Status
Description	Delivery Boy can update the status of an assigned order to indicate it is currently "Out for Delivery".
Stakeholder	Delivery Boy

FR19	View Returns
Description	Delivery Boy can view a list of products that customers have requested to return, along with pickup details.
Stakeholder	Delivery Boy

## **2.3 Non-Functional Requirements**

For my SUPER SHOP E-Commerce Website, I focused on several key non-functional requirements to ensure the platform's quality. The system needs to perform well by loading quickly and handling increased traffic as the business grows. It's important that the website is secure, especially when handling sensitive user data and payment information. The platform should be easy to use with a simple, intuitive interface. Moreover, system analysis is required on permanent access with less of downtime and cross-device and browsers compatibility

### **2.3.1 Performance**

October 3, 2024 Performance SUPER SHOP E-Commerce Website September 29, 2025 Performance SUPER SHOP E-Commerce Website Performance is an important factor in my SUPER SHOP E-Commerce Website. It must have a quick loading speed, so the customers can enjoy the smooth experience. To do so, I've compressed images, reduced HTTP requests, and added customer-side caching. Without exception, the system should reuse several concurrent customers and deals. The platform should also ensure fast access by all customers across devices and there should be a flawless experience (mobile, tablet & desktop).

### **2.3.2 Reliability**

Reliability makes sure my SUPER SHOP E-Commerce Website is live and operational 24 hours a day. The system must be able to handle failures or errors gracefully. Regular backups, error handling and redundancy measures will be implemented to ensure this. Website should perform better during peak demand, payments. The Downtime should be less to keep the trust and user satisfaction intact.

### **2.3.3 Portability**

Portability means that the website can run on different Operating systems, devices, and web browsers. Your e-commerce website should be compatible with every browser from Chrome to Firefox and every device from a desktop to a smartphone. It should be easy to migrate or change deployment of the platform to different web hosting environments, such as VPS or Managed Hosting environments, guaranteeing that an update or change design would not lead to the crashing of the platform for users. It is this flexibility that ensures the website runs seamlessly on different systems and networks

## 2.4 System design using UML (object-oriented)

### 2.4.1 Use Case

There are two kind of stoners in SUPER SHOP e- commerce platform, they are the users ( guests and guests) and Admins. visitors can view products but need to join to purchase. After a visitor signs up, they send themselves a verification dispatch to ignite their account. Once signed in, stoners can cherry-pick items until their wagon is full of dankness and head to checkout with payment information. Admins can handle customers orders, payments and shipping statuses. Registered stoners have placed an order, Is the system to avoid becoming a ejit for unregistered ones, while admins have full control over user accounts and order management.



Figure 2: Use case Diagram

## 2.4.2 Case Report

**Table 2.1: Case Report -01 Sign Up**

Use Case	<b>Sign up</b>										
Goal	Admin/User/ Delivery Boy will be able to registered into the system										
Precondition											
Success End Condition	Registration done.										
Failed End Condition	Failed to be registered										
Primary Actors:	Admin, User, Delivery Boy										
Secondary Actors:											
Trigger	Must click on register button										
Description	<table border="1"> <tr> <td>1.</td> <td>User will get the registration option in the homepage</td> </tr> <tr> <td>2.</td> <td>After that user must give a valid username and password</td> </tr> <tr> <td>3.</td> <td>By doing so user will hit the registration button</td> </tr> <tr> <td>4.</td> <td>User registration will be done</td> </tr> <tr> <td>5.</td> <td>User will get a notification</td> </tr> </table>	1.	User will get the registration option in the homepage	2.	After that user must give a valid username and password	3.	By doing so user will hit the registration button	4.	User registration will be done	5.	User will get a notification
1.	User will get the registration option in the homepage										
2.	After that user must give a valid username and password										
3.	By doing so user will hit the registration button										
4.	User registration will be done										
5.	User will get a notification										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>User did not get the registration option</td> </tr> <tr> <td>1a1.</td> <td>“Server not found”</td> </tr> <tr> <td>2a.</td> <td>Did not give a valid username or password</td> </tr> <tr> <td>2a1.</td> <td>“Error!!! try again”</td> </tr> </table>	1a.	User did not get the registration option	1a1.	“Server not found”	2a.	Did not give a valid username or password	2a1.	“Error!!! try again”		
1a.	User did not get the registration option										
1a1.	“Server not found”										
2a.	Did not give a valid username or password										
2a1.	“Error!!! try again”										
Quality Requirements	User can register to the system whenever they want to.										

**Table 2.2: Case Report-02 Login**

Use Case	<b>Login</b>								
Goal	Admin/User Delivery Boy login to the system								
Precondition	Must be a sign up user								
Success End Condition	Successfully logged into the system								
Failed End Condition	User failed to login into the system								
Primary Actors:	Admin, User, Delivery Boy								
Secondary Actors:									
Trigger	Must click on login button								
Description	<table border="1"> <tr> <td>1.</td> <td>User will get the login</td> </tr> <tr> <td>2.</td> <td>User will provide accurate username and password</td> </tr> <tr> <td>3.</td> <td>After that user will hit the login button</td> </tr> <tr> <td>4.</td> <td>User will successfully logged into the system</td> </tr> </table>	1.	User will get the login	2.	User will provide accurate username and password	3.	After that user will hit the login button	4.	User will successfully logged into the system
1.	User will get the login								
2.	User will provide accurate username and password								
3.	After that user will hit the login button								
4.	User will successfully logged into the system								
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Login page didn't show up</td> </tr> <tr> <td>1a1.</td> <td>"Server not found"</td> </tr> <tr> <td>2a.</td> <td>Failed to login to the system</td> </tr> <tr> <td>2a1.</td> <td>"504 gateway"</td> </tr> </table>	1a.	Login page didn't show up	1a1.	"Server not found"	2a.	Failed to login to the system	2a1.	"504 gateway"
1a.	Login page didn't show up								
1a1.	"Server not found"								
2a.	Failed to login to the system								
2a1.	"504 gateway"								
Quality Requirements	User can login to system at any time								

**Table 2.3: Case Repost-03 Our Shop**

Use Case	<b>Our Shop</b>												
Goal	can browse the entire product roster, sludge by order, and view product details.												
Precondition	stoner has internet access( login is voluntary).												
Success End Condition	Products are loaded snappily and displayed directly on the runner.												
Failed End Condition	the product list from the database.												
Primary Actors:	User												
Secondary Actors:													
Trigger	stoner navigates to the" Our Shop" runner or clicks a order link.												
Description	<table border="1"> <tr> <td>1.</td> <td>stoner loads the Shop runner.</td> </tr> <tr> <td>2.</td> <td>System queries and displays products.</td> </tr> <tr> <td>3.</td> <td>stoner applies available pollutants.</td> </tr> <tr> <td>4.</td> <td>Clicks product to view details.</td> </tr> <tr> <td>5.</td> <td>Product details runner loaded.</td> </tr> </table>	1.	stoner loads the Shop runner.	2.	System queries and displays products.	3.	stoner applies available pollutants.	4.	Clicks product to view details.	5.	Product details runner loaded.		
1.	stoner loads the Shop runner.												
2.	System queries and displays products.												
3.	stoner applies available pollutants.												
4.	Clicks product to view details.												
5.	Product details runner loaded.												
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>No products available</td> <td>1a1.</td> </tr> <tr> <td></td> <td>Sludge returns zero results.</td> <td></td> </tr> <tr> <td>2a.</td> <td>Garçon/ database failure.</td> <td></td> </tr> <tr> <td>2a1.</td> <td>Sludge/ kind medium error.</td> <td></td> </tr> </table>	1a.	No products available	1a1.		Sludge returns zero results.		2a.	Garçon/ database failure.		2a1.	Sludge/ kind medium error.	
1a.	No products available	1a1.											
	Sludge returns zero results.												
2a.	Garçon/ database failure.												
2a1.	Sludge/ kind medium error.												
Quality Requirements	cargo time must be presto, and hunt/ filtering must be accurate.												

**Table 2.4: Case Description-04 Blog**

Use Case	<b>Blog</b>										
Goal	can pierce the blog section, read papers, and view blog details.										
Precondition	stoner has internet access..										
Success End Condition	Blog posts are loaded and displayed in a readable format.										
Failed End Condition	Failed to recoup blog posts( e.g., garçon issue).										
Primary Actors:	User										
Secondary Actors:											
Trigger	stoner clicks the" Blog".										
Description	<table border="1"> <tr> <td>1.</td> <td>Click Blog section.</td> </tr> <tr> <td>2.</td> <td>System retrieves post list.</td> </tr> <tr> <td>3.</td> <td>stoner selects an composition.</td> </tr> <tr> <td>4.</td> <td>Full content is displayed.</td> </tr> <tr> <td>5</td> <td>stoner reads the post.</td> </tr> </table>	1.	Click Blog section.	2.	System retrieves post list.	3.	stoner selects an composition.	4.	Full content is displayed.	5	stoner reads the post.
1.	Click Blog section.										
2.	System retrieves post list.										
3.	stoner selects an composition.										
4.	Full content is displayed.										
5	stoner reads the post.										
Alternative Flows	<table border="1"> <tr> <td>1.1</td> <td>No blogs set up or composition not 2.1</td> </tr> <tr> <td></td> <td>Garçon Issue</td> </tr> <tr> <td>3.1</td> <td>Image means fail to load.</td> </tr> <tr> <td>4.1</td> <td>Blog post content is corrupted.</td> </tr> </table>	1.1	No blogs set up or composition not 2.1		Garçon Issue	3.1	Image means fail to load.	4.1	Blog post content is corrupted.		
1.1	No blogs set up or composition not 2.1										
	Garçon Issue										
3.1	Image means fail to load.										
4.1	Blog post content is corrupted.										
Quality Requirements	Blog content must be responsive and cargo images snappily.										

**Table 2.5: Case Report-05 Add Cart**

Use Case	<b>Add to Cart</b>												
Goal	User can successfully add a asked product( or products) to their virtual shopping cart.												
Precondition	User must be viewing a product detail runner; product must be in stock.												
Success End Condition	Item is successfully added to the wain, and the wain aggregate/ count is updated..												
Failed End Condition	Failed to add the point( e.g., out of stock or volume exceeds stock).												
Primary Actors:	User												
Secondary Actors:													
Trigger	Add to tote button.												
Description	<table border="1"> <tr> <td>1.</td> <td>Select product volume</td> </tr> <tr> <td>2.</td> <td>Click Add to tote button</td> </tr> <tr> <td>3.</td> <td>System checks point stock</td> </tr> <tr> <td>4.</td> <td>point added; wain count updates</td> </tr> <tr> <td>5.</td> <td>Receive success announcement</td> </tr> </table>	1.	Select product volume	2.	Click Add to tote button	3.	System checks point stock	4.	point added; wain count updates	5.	Receive success announcement		
1.	Select product volume												
2.	Click Add to tote button												
3.	System checks point stock												
4.	point added; wain count updates												
5.	Receive success announcement												
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>eschewal of Stock.</td> <td>1a1.</td> </tr> <tr> <td></td> <td>volume exceeds current stock.</td> <td></td> </tr> <tr> <td>2a.</td> <td>wain service connection error.</td> <td></td> </tr> <tr> <td>2a1.</td> <td>stoner session downtime.</td> <td></td> </tr> </table>	1a.	eschewal of Stock.	1a1.		volume exceeds current stock.		2a.	wain service connection error.		2a1.	stoner session downtime.	
1a.	eschewal of Stock.	1a1.											
	volume exceeds current stock.												
2a.	wain service connection error.												
2a1.	stoner session downtime.												
Quality Requirements	Cart updates must be immediate and directly reflect the available stock.												

**Table 2.6: Case Report-06 My Order**

Use Case	<b>My Order</b>										
Goal	User can view a comprehensive list of all once and pending orders and their current fulfillment status.										
Precondition	logged in and have placed at least one order.										
Success End Condition	Failed to recoup order history from the database.										
Failed End Condition	Failed to recoup order history from the database.										
Primary Actors:	User										
Secondary Actors:											
Trigger	" My Order" link( FR18).										
Description	<table border="1"> <tr> <td>1.</td> <td>Navigate to My Orders.</td> </tr> <tr> <td>2.</td> <td>System loads order history.</td> </tr> <tr> <td>3.</td> <td>View status( e.g., Delivered).</td> </tr> <tr> <td>4.</td> <td>Select order for full details.</td> </tr> <tr> <td>5.</td> <td>Check tracking link.</td> </tr> </table>	1.	Navigate to My Orders.	2.	System loads order history.	3.	View status( e.g., Delivered).	4.	Select order for full details.	5.	Check tracking link.
1.	Navigate to My Orders.										
2.	System loads order history.										
3.	View status( e.g., Delivered).										
4.	Select order for full details.										
5.	Check tracking link.										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>No Orders in history.</td> </tr> <tr> <td>1a1.</td> <td>"Failed to load order history.</td> </tr> <tr> <td>2a.</td> <td>Tracking link unapproachable.</td> </tr> <tr> <td>2a1.</td> <td>Order details corrupted.</td> </tr> </table>	1a.	No Orders in history.	1a1.	"Failed to load order history.	2a.	Tracking link unapproachable.	2a1.	Order details corrupted.		
1a.	No Orders in history.										
1a1.	"Failed to load order history.										
2a.	Tracking link unapproachable.										
2a1.	Order details corrupted.										
Quality Requirements	Order status must be accompanied with Admin and Delivery Boy updates										

**Table 2.9: Case Report-07 Payment**

Use Case	<b>Payment and Checkout</b>												
Goal	User can successfully submit their order details and finalize payment via Card,E-banking, or Cash on Delivery( COD).												
Precondition	User must have particulars in the wain and give a valid shipping address.												
Success End Condition	Order is placed, payment is verified( if applicable), and the wain is cleared.												
Failed End Condition	Payment processing failed, or order submission was incomplete.												
Primary Actors: Secondary Actors:	User												
Trigger	" do to Payment" or" Place Order"( FR20, FR21, FR22).												
Description	<table border="1"> <tr> <td>1.</td> <td>The User reviews all items in the cart and confirms the shipping address.</td> </tr> <tr> <td>2.</td> <td>The User selects a preferred payment option from the available choices</td> </tr> <tr> <td>3.</td> <td>The User enters payment details; data is securely transmitted to the Payment.</td> </tr> <tr> <td>4.</td> <td>Order placed; wain clears.</td> </tr> <tr> <td>5.</td> <td>Upon success, the System records the payment, clears the cart, and assigns an Order ID.</td> </tr> </table>	1.	The User reviews all items in the cart and confirms the shipping address.	2.	The User selects a preferred payment option from the available choices	3.	The User enters payment details; data is securely transmitted to the Payment.	4.	Order placed; wain clears.	5.	Upon success, the System records the payment, clears the cart, and assigns an Order ID.		
1.	The User reviews all items in the cart and confirms the shipping address.												
2.	The User selects a preferred payment option from the available choices												
3.	The User enters payment details; data is securely transmitted to the Payment.												
4.	Order placed; wain clears.												
5.	Upon success, the System records the payment, clears the cart, and assigns an Order ID.												
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Payment Declined by gateway.</td> <td>1a1.</td> </tr> <tr> <td></td> <td>force change</td> <td></td> </tr> <tr> <td>2a.</td> <td>Order submission failed.</td> <td></td> </tr> <tr> <td>2a1.</td> <td>Shipping address confirmation failed.</td> <td></td> </tr> </table>	1a.	Payment Declined by gateway.	1a1.		force change		2a.	Order submission failed.		2a1.	Shipping address confirmation failed.	
1a.	Payment Declined by gateway.	1a1.											
	force change												
2a.	Order submission failed.												
2a1.	Shipping address confirmation failed.												
Quality Requirements	must be handled securely( PCI compliance) and recorded instantly.												

**Table 2.10: Case Description-8 Contact Us**

Use Case	<b>Contact Us / Submit Inquiry</b>								
Goal	User can submit an inquiry or communication to the Admin/ Support team.								
Precondition	User has internet access.								
Success End Condition	Message is successfully submitted and saved to the Admin's communication inbox..								
Failed End Condition	Failed to shoot the communication( e.g., confirmation error or garçon issue).								
Primary Actors:	User								
Secondary Actors:									
Trigger	" shoot Communication" button( FR17).								
Description	<table border="1"> <tr> <td>1.</td> <td>Fill all form fields.</td> </tr> <tr> <td>2.</td> <td>Admit communication transferred evidence.</td> </tr> <tr> <td>3.</td> <td>Click shoot Communication button</td> </tr> <tr> <td>4.</td> <td>Data transmits to Admin.</td> </tr> </table>	1.	Fill all form fields.	2.	Admit communication transferred evidence.	3.	Click shoot Communication button	4.	Data transmits to Admin.
1.	Fill all form fields.								
2.	Admit communication transferred evidence.								
3.	Click shoot Communication button								
4.	Data transmits to Admin.								
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Missing needed fields..</td> </tr> <tr> <td>1a1.</td> <td>Invalid dispatch address.</td> </tr> <tr> <td>2a.</td> <td>Messaging service failure.</td> </tr> <tr> <td>2a1.</td> <td>Form submission downtime.</td> </tr> </table>	1a.	Missing needed fields..	1a1.	Invalid dispatch address.	2a.	Messaging service failure.	2a1.	Form submission downtime.
1a.	Missing needed fields..								
1a1.	Invalid dispatch address.								
2a.	Messaging service failure.								
2a1.	Form submission downtime.								
Quality Requirements	Admin must be suitable to view and respond to dispatches fluently( FR11).								

**Table 2.11: Case Description-9 Order Management**

Use Case	<b>Order Management</b>								
Goal	Admin can view all entered orders, manage payments, update status, and induce checks.								
Precondition	Admin logged in.								
Success End Condition	Order status is streamlined, and accurate records checks are maintained.								
Failed End Condition	Failed to contemporize order status or recoup order details.								
Primary Actors: Secondary Actors:	Admin								
Trigger	Admin navigates to the " Order Management" section( FR10).								
Description	<table border="1"> <tr> <td>1.</td> <td>View entered order list.</td> </tr> <tr> <td>2.</td> <td>corroborate payment status.</td> </tr> <tr> <td>3.</td> <td>Update fulfillment status.</td> </tr> <tr> <td>4.</td> <td>Assign delivery boy.</td> </tr> </table>	1.	View entered order list.	2.	corroborate payment status.	3.	Update fulfillment status.	4.	Assign delivery boy.
1.	View entered order list.								
2.	corroborate payment status.								
3.	Update fulfillment status.								
4.	Assign delivery boy.								
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Payment quantum mismatch.</td> </tr> <tr> <td>1a1.</td> <td>Status update failure.</td> </tr> <tr> <td>2a.</td> <td>Failed to induce PDF.</td> </tr> <tr> <td>2a1.</td> <td>Assignment to Delivery Boy fails.</td> </tr> </table>	1a.	Payment quantum mismatch.	1a1.	Status update failure.	2a.	Failed to induce PDF.	2a1.	Assignment to Delivery Boy fails.
1a.	Payment quantum mismatch.								
1a1.	Status update failure.								
2a.	Failed to induce PDF.								
2a1.	Assignment to Delivery Boy fails.								
Quality Requirements	Order status must be accurate, and tab generation must be reliable.								

**Table 2.12: Case Description-10 Blog Management**

Use Case	<b>Blog Management</b>										
Goal	Admin can perform full soil operations( produce, Read, Update, cancel) on all blog posts.										
Precondition	Admin logged in.										
Success End Condition	Blog post is directly published, modified, or permanently removed from the system.										
Failed End Condition	Failed to complete the soil operation( e.g., evidence error, database issue). Primary Actor Admin										
Primary Actors: Secondary Actors:	Admin										
Trigger	Admin accesses the" Blog Management" dashboard( FR012, FR013).										
Description	<table border="1"> <tr> <td>1.</td> <td>Admin accesses Blog Manager.</td> </tr> <tr> <td>2.</td> <td>The Admin selects a <b>CRUD action</b>: Add New, Edit Existing, or Delete.</td> </tr> <tr> <td>3.</td> <td>Modify content, upload images.</td> </tr> <tr> <td>4.</td> <td>Click Publish/ Update.</td> </tr> <tr> <td>5.</td> <td>Blog content is streamlined.</td> </tr> </table>	1.	Admin accesses Blog Manager.	2.	The Admin selects a <b>CRUD action</b> : Add New, Edit Existing, or Delete.	3.	Modify content, upload images.	4.	Click Publish/ Update.	5.	Blog content is streamlined.
1.	Admin accesses Blog Manager.										
2.	The Admin selects a <b>CRUD action</b> : Add New, Edit Existing, or Delete.										
3.	Modify content, upload images.										
4.	Click Publish/ Update.										
5.	Blog content is streamlined.										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>confirmation Fail</td> </tr> <tr> <td>1a1.</td> <td>cancel evidence cancelled.</td> </tr> <tr> <td>2a.</td> <td>Database connection error.</td> </tr> <tr> <td>2a1.</td> <td>“Image upload for post fails.</td> </tr> </table>	1a.	confirmation Fail	1a1.	cancel evidence cancelled.	2a.	Database connection error.	2a1.	“Image upload for post fails.		
1a.	confirmation Fail										
1a1.	cancel evidence cancelled.										
2a.	Database connection error.										
2a1.	“Image upload for post fails.										
Quality Requirements	Content editing must be intuitive, and changes must be reflected directly on the user- facing blog.										

**Table 2.13: Case Description-11 Product Management**

Use Case	<b>Product Management</b>										
Goal	Admin can control the entire product canon, including managing orders, products, force, and pricing.										
Precondition	Admin successfully logged in.										
Success End Condition	Product/ order data is directly maintained and streamlined in the system.										
Failed End Condition	Failed to complete the soil operation on a product or order( e.g., force update error).										
Primary Actors: Secondary Actors:	Admin										
Trigger	Admin accesses the" Product Management" dashboard( FR08, FR09, FR11).										
Description	<table border="1"> <tr> <td>1.</td> <td>Navigate to Product director.</td> </tr> <tr> <td>2.</td> <td>Choose Product or order</td> </tr> <tr> <td>3.</td> <td>Perform smut operation</td> </tr> <tr> <td>4.</td> <td>System validates and saves.</td> </tr> <tr> <td>5.</td> <td>force is streamlined incontinently.</td> </tr> </table>	1.	Navigate to Product director.	2.	Choose Product or order	3.	Perform smut operation	4.	System validates and saves.	5.	force is streamlined incontinently.
1.	Navigate to Product director.										
2.	Choose Product or order										
3.	Perform smut operation										
4.	System validates and saves.										
5.	force is streamlined incontinently.										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Duplicate SKU exists.</td> </tr> <tr> <td>1a1.</td> <td>order Link error</td> </tr> <tr> <td>2a.</td> <td>Image upload fail.</td> </tr> <tr> <td>2a1.</td> <td>Price/ force number format error.</td> </tr> </table>	1a.	Duplicate SKU exists.	1a1.	order Link error	2a.	Image upload fail.	2a1.	Price/ force number format error.		
1a.	Duplicate SKU exists.										
1a1.	order Link error										
2a.	Image upload fail.										
2a1.	Price/ force number format error.										
Quality Requirements	force count must be real- time; product images must be securely stored and accessible.										

**Table 2.14: Case Description-12 User Management**

Use Case	<b>User Management</b>										
Goal	Admin can view and manage all system stoners, including assigning places and handling Delivery Boy job operations.										
Precondition	Admin must be successfully logged in.										
Success End Condition	user status( e.g., Approved, Role Change) is successfully streamlined.										
Failed End Condition	Failed to contemporize user status or recoup user list.										
Primary Actors:	Admin										
Secondary Actors:											
Trigger	Admin accesses operation dashboard.										
Description / Main Success Scenario	<table border="1"> <tr> <td>1.</td> <td>View druggies, see operations.</td> </tr> <tr> <td>2.</td> <td>The Admin views the comprehensive list of all registered users.</td> </tr> <tr> <td>3.</td> <td>The Admin selects a user or applicant to review their details and submitted forms.</td> </tr> <tr> <td>4.</td> <td>The Admin performs an action: <b>Approving or Rejecting</b> the application.</td> </tr> <tr> <td>5.</td> <td>announcement transferred to stoner.</td> </tr> </table>	1.	View druggies, see operations.	2.	The Admin views the comprehensive list of all registered users.	3.	The Admin selects a user or applicant to review their details and submitted forms.	4.	The Admin performs an action: <b>Approving or Rejecting</b> the application.	5.	announcement transferred to stoner.
1.	View druggies, see operations.										
2.	The Admin views the comprehensive list of all registered users.										
3.	The Admin selects a user or applicant to review their details and submitted forms.										
4.	The Admin performs an action: <b>Approving or Rejecting</b> the application.										
5.	announcement transferred to stoner.										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>stoner account not set 1a1.</td> </tr> <tr> <td></td> <td>blessing/ part update</td> </tr> <tr> <td>2a.</td> <td>Rejection must be verified.</td> </tr> <tr> <td>2a1.</td> <td>part update authorization denied.</td> </tr> </table>	1a.	stoner account not set 1a1.		blessing/ part update	2a.	Rejection must be verified.	2a1.	part update authorization denied.		
1a.	stoner account not set 1a1.										
	blessing/ part update										
2a.	Rejection must be verified.										
2a1.	part update authorization denied.										
Quality Requirements	Role changes must be instant and correctly apply the new system clearances.										

**Table 2.15: Case Description-13 Delivery Boy Profile**

Use Case	<b>Delivery Boy Profile &amp; Dashboard</b>											
Goal	Delivery Boy can view assigned orders, update delivery status, and manage their logistics profile.											
Precondition	Delivery Boy must be successfully logged in to their specialized dashboard( FR23).											
Success End Condition	Profile details are streamlined, and the list of pending deliveries is directly displayed.											
Failed End Condition	Failed to pierce the dashboard or update profile information.											
Primary Actors:	Delivery Boy											
Secondary Actors:												
Trigger	Delivery Boy successfully logs in.											
Description	<table border="1"> <tr> <td>1.</td> <td>Login to Dashboard.</td> </tr> <tr> <td>2.</td> <td>View assigned orders list.</td> </tr> <tr> <td>3.</td> <td>The Delivery Boy selects an order to view customer contact and map details.</td> </tr> <tr> <td>4.</td> <td>System records status change.</td> </tr> <tr> <td>5.</td> <td>Update profile details.</td> </tr> </table>	1.	Login to Dashboard.	2.	View assigned orders list.	3.	The Delivery Boy selects an order to view customer contact and map details.	4.	System records status change.	5.	Update profile details.	
1.	Login to Dashboard.											
2.	View assigned orders list.											
3.	The Delivery Boy selects an order to view customer contact and map details.											
4.	System records status change.											
5.	Update profile details.											
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>Status update failure</td> </tr> <tr> <td>1a1.</td> <td>Order ID not honored.</td> <td>2a.</td> </tr> <tr> <td></td> <td>Profile save error.</td> <td></td> </tr> <tr> <td>2a1.</td> <td>Assigned orders list fails to</td> <td></td> </tr> </table>	1a.	Status update failure	1a1.	Order ID not honored.	2a.		Profile save error.		2a1.	Assigned orders list fails to	
1a.	Status update failure											
1a1.	Order ID not honored.	2a.										
	Profile save error.											
2a1.	Assigned orders list fails to											
Quality Requirements	Real- time status updates are critical for accurate shadowing and customer satisfaction.											

**Table 2.16: Case Description-14 Return Product**

Use Case	<b>Manage Return Product</b>										
Goal	Delivery Boy can successfully exercise and admit the blitz of a returned product from a customer..										
Precondition	Return request must be assigned to the Delivery Boy by the Admin( FR27).										
Success End Condition	Product is picked up, and the return status is streamlined to" Picked Up" in the system( FR28).										
Failed End Condition	Failed to exercise return due to customer inaccessibility or point distinction. Primary Actor Delivery Boy										
Primary Actors:	Delivery Boy										
Secondary Actors:	Customer										
Trigger	Delivery Boy clicks" Confirm blitz" on an assigned return request.										
Description	<table border="1"> <tr> <td>1.</td> <td>The Delivery Boy views the list of <b>assigned return requests</b></td> </tr> <tr> <td>2.</td> <td>The Delivery Boy verifies the customer address and the original product details.</td> </tr> <tr> <td>3.</td> <td>The Delivery Boy updates the status to <b>"Picked Up"</b> on the app interface</td> </tr> <tr> <td>4.</td> <td>Update status to Picked Up</td> </tr> <tr> <td>5.</td> <td>The System notifies the Admin that the product is now in transit back to the shop</td> </tr> </table>	1.	The Delivery Boy views the list of <b>assigned return requests</b>	2.	The Delivery Boy verifies the customer address and the original product details.	3.	The Delivery Boy updates the status to <b>"Picked Up"</b> on the app interface	4.	Update status to Picked Up	5.	The System notifies the Admin that the product is now in transit back to the shop
1.	The Delivery Boy views the list of <b>assigned return requests</b>										
2.	The Delivery Boy verifies the customer address and the original product details.										
3.	The Delivery Boy updates the status to <b>"Picked Up"</b> on the app interface										
4.	Update status to Picked Up										
5.	The System notifies the Admin that the product is now in transit back to the shop										
Alternative Flows	<table border="1"> <tr> <td>1a.</td> <td>point Missing / Damaged</td> </tr> <tr> <td>1a1.</td> <td>client unapproachable</td> </tr> <tr> <td>2a.</td> <td>Status update failure.</td> </tr> <tr> <td>2a1.</td> <td>Return data submission rejected.</td> </tr> </table>	1a.	point Missing / Damaged	1a1.	client unapproachable	2a.	Status update failure.	2a1.	Return data submission rejected.		
1a.	point Missing / Damaged										
1a1.	client unapproachable										
2a.	Status update failure.										
2a1.	Return data submission rejected.										
Quality Requirements	The return process must be tracked directly to initiate force and refund procedures.										

### 2.4.3 Activity Diagram

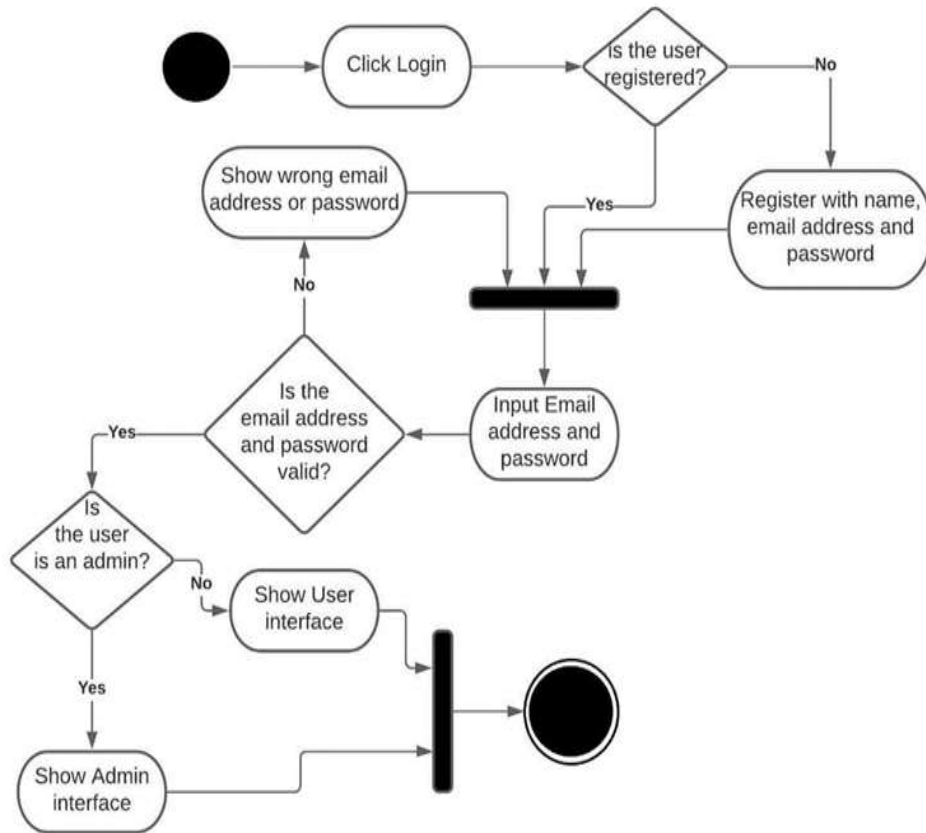
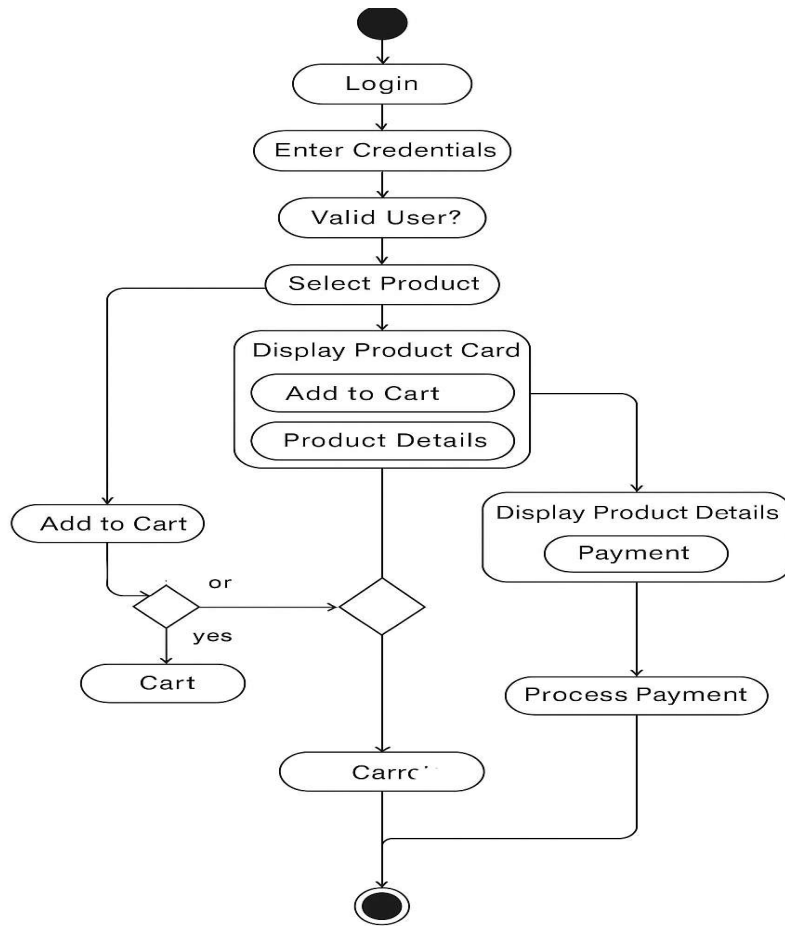
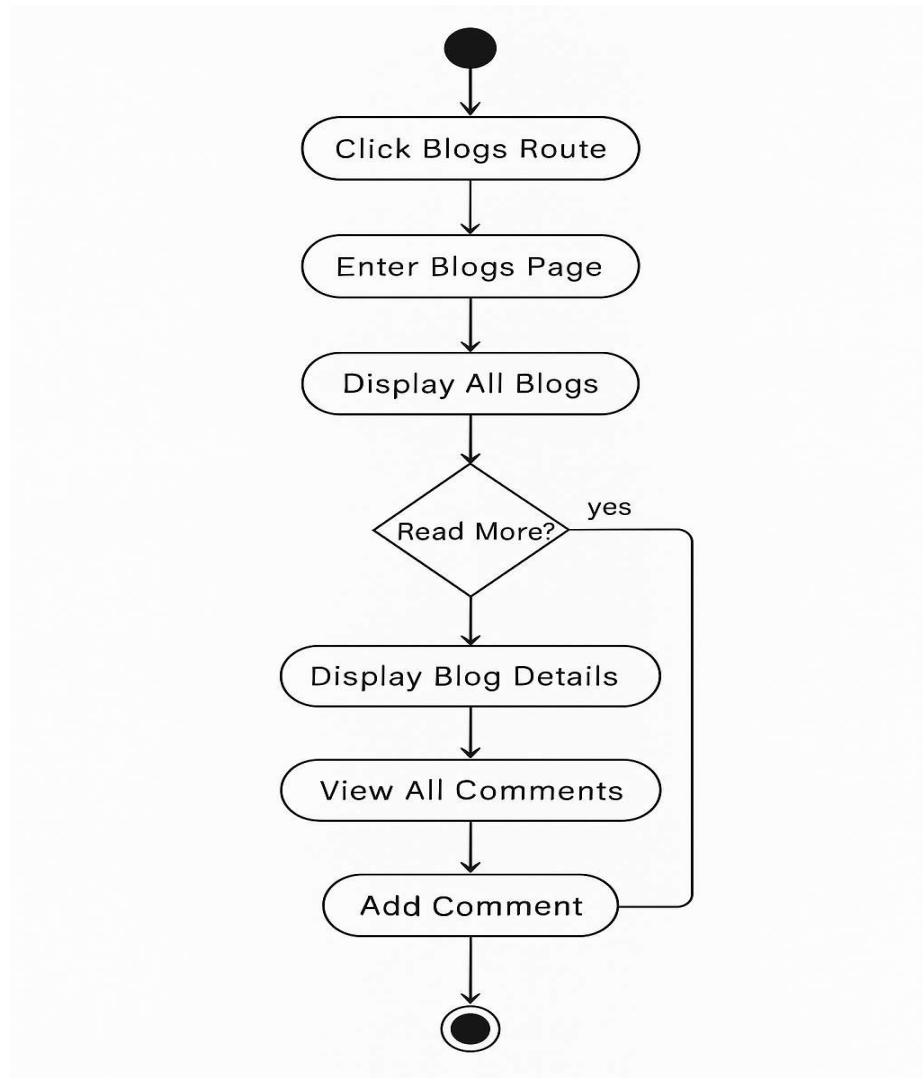


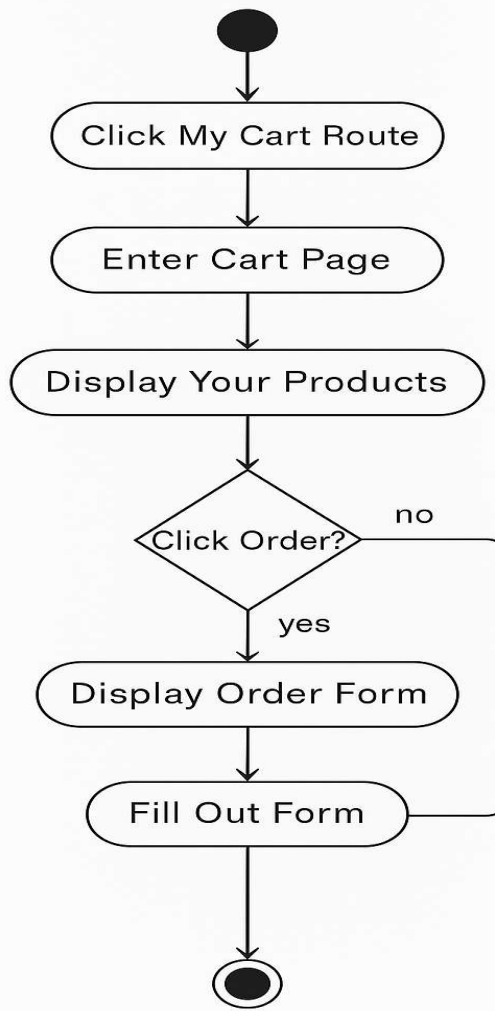
Figure 3.1: Login and Registration



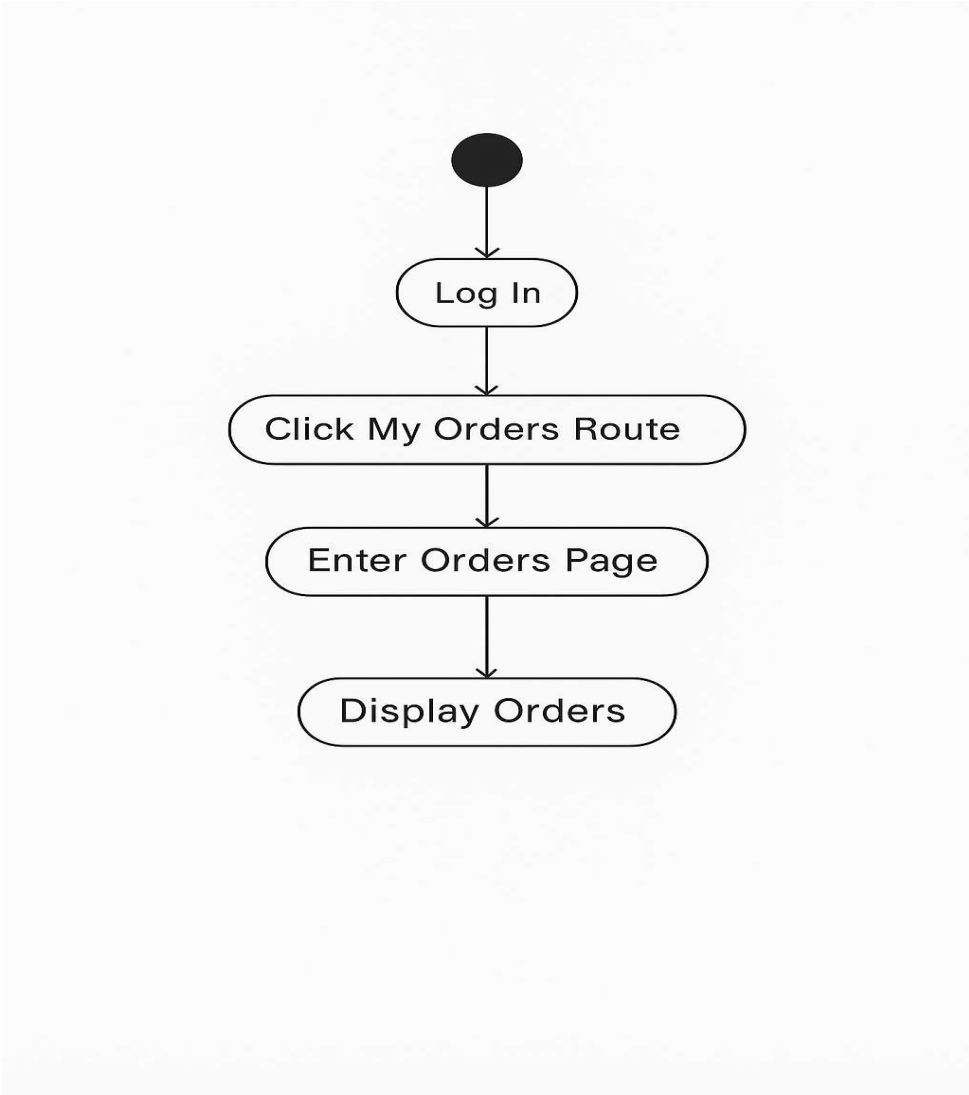
**Figure 3.2: Our Shop**



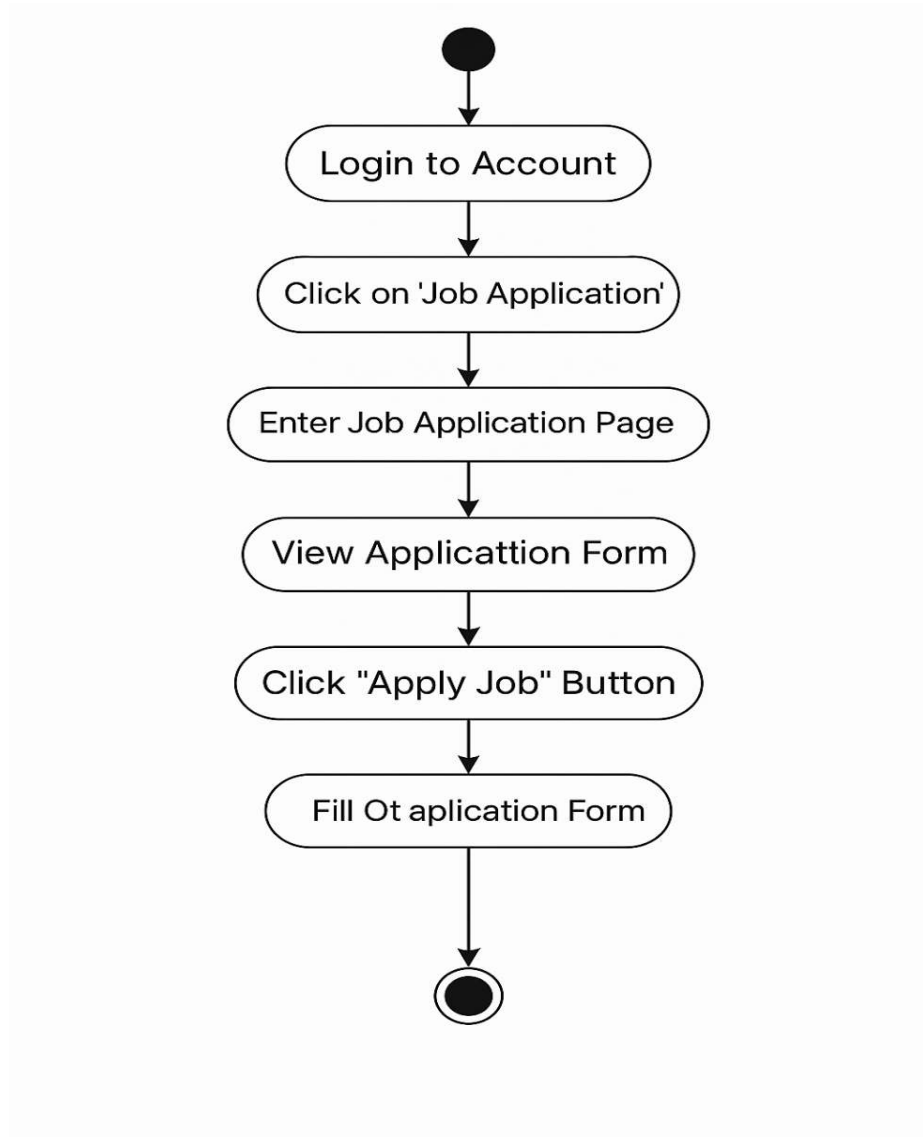
**Figure 3.3: Blogs**



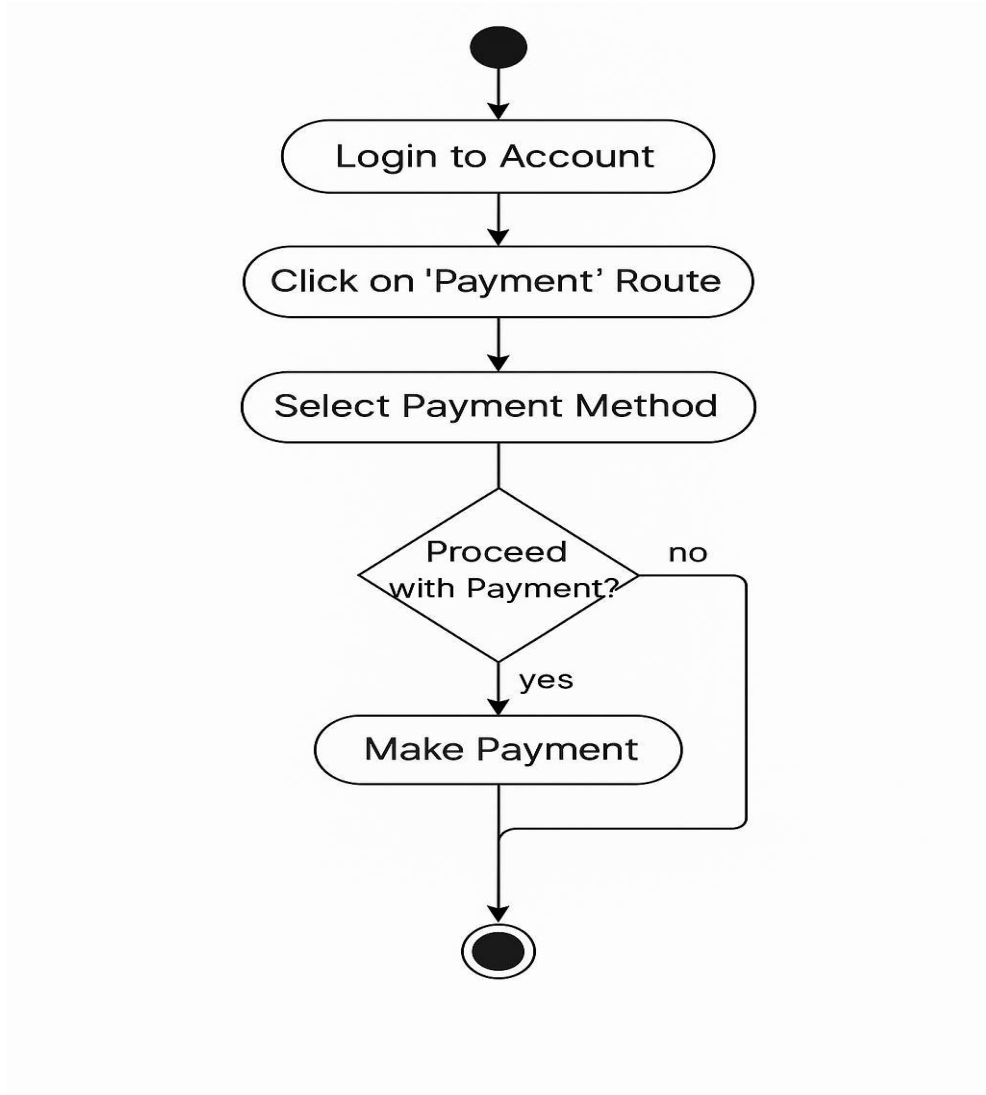
**Figure 3.4: Add Cart**



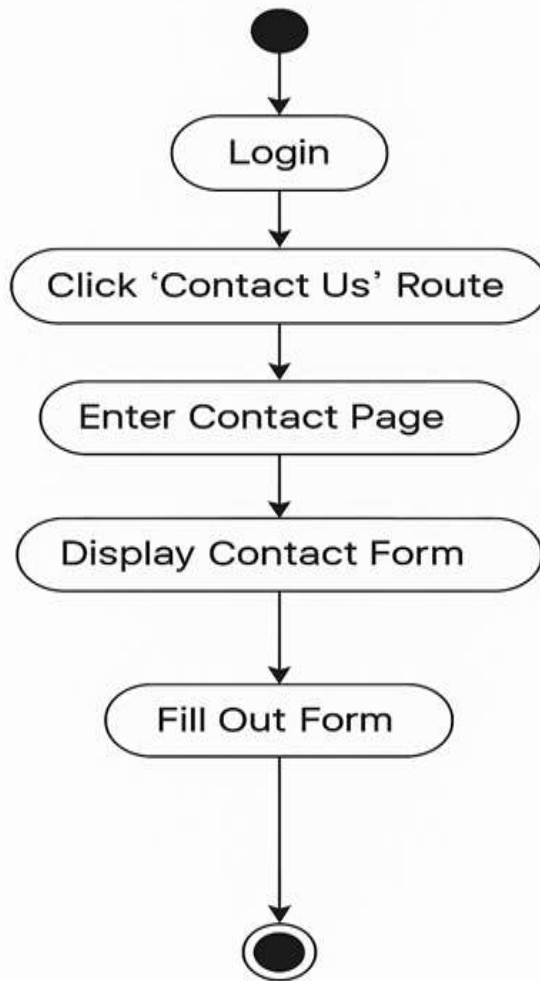
**Figure 3.5: My Order**



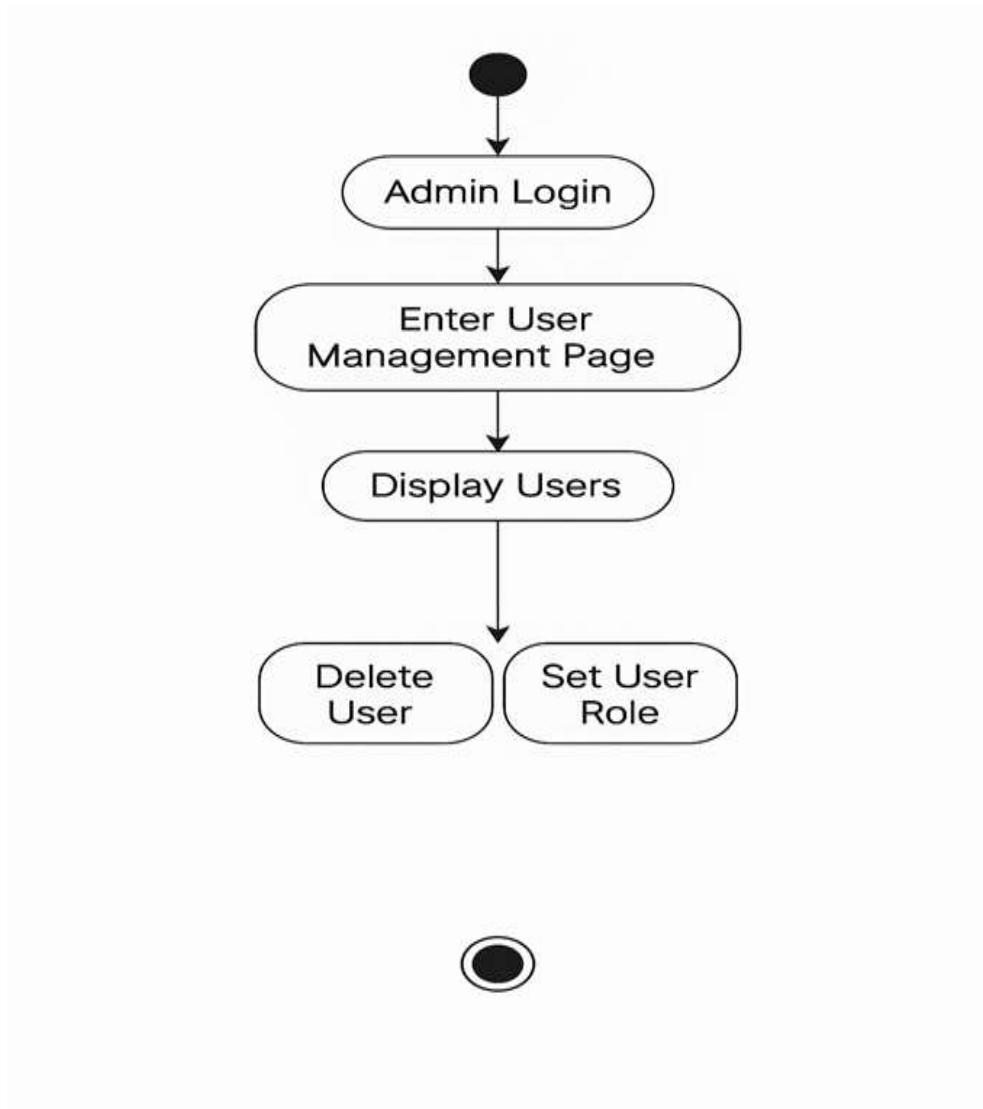
**Figure 3.6 Job Application delivery Boy**



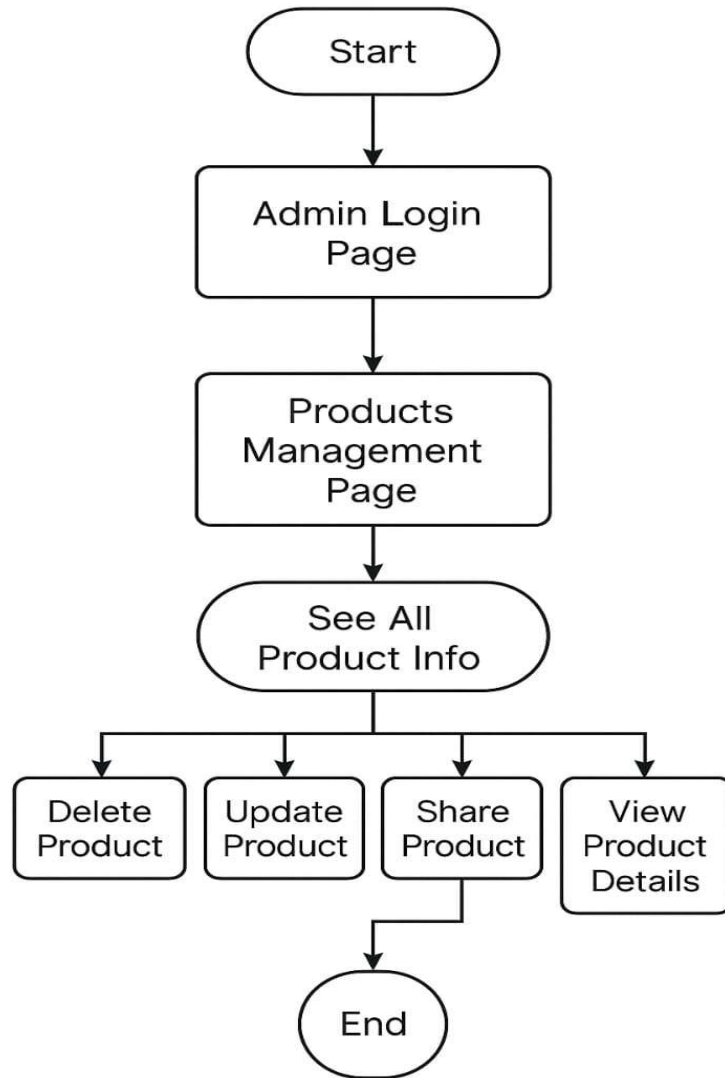
**Figure 3. 7: Payment**



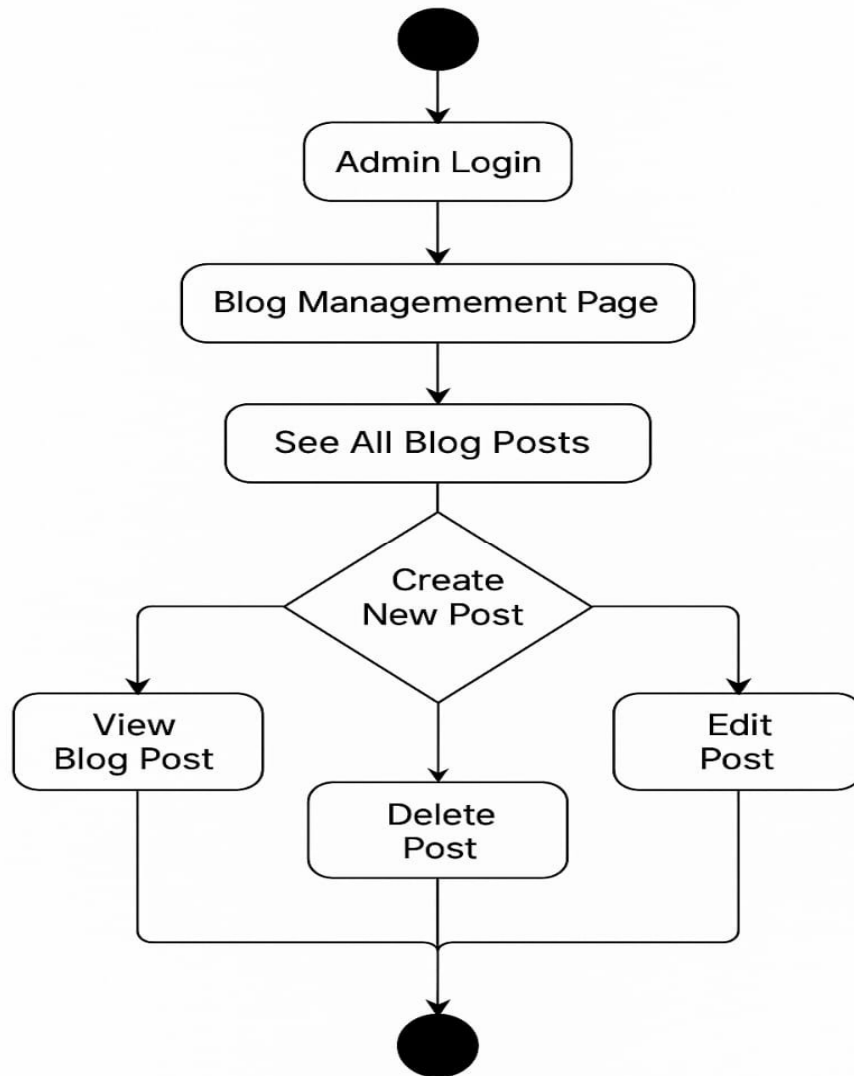
**Figure 3. 8: Contact Us**



**Figure 3. 9: User Management**



**Figure 3. 10: Product Management**



**Figure 3. 11: Blog Management**

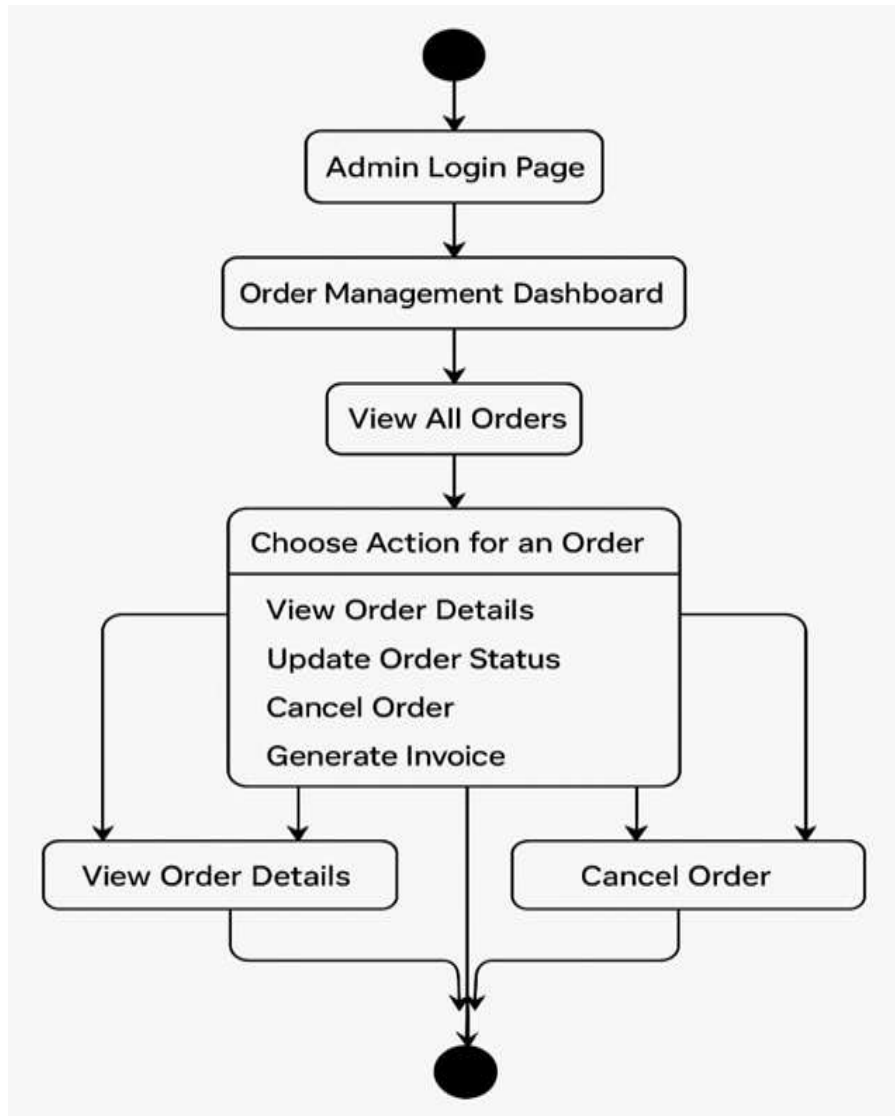
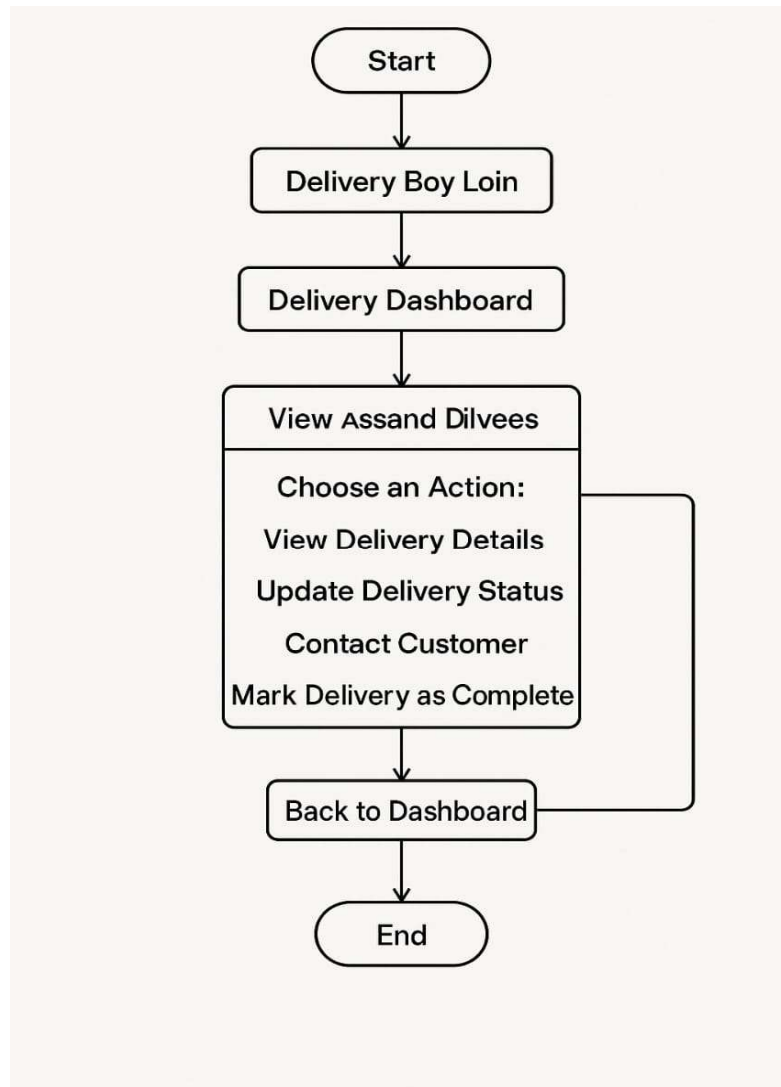
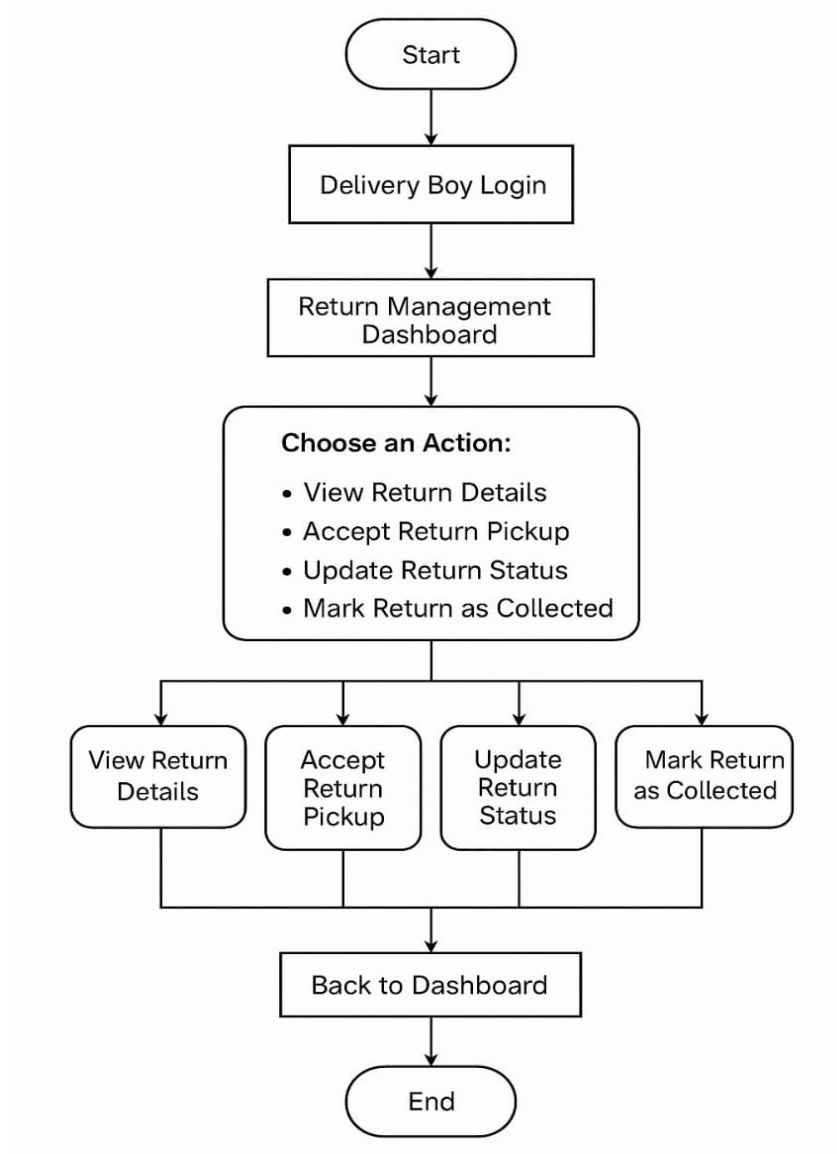


Figure 3. 12: Order Management



**Figure 3. 13: Delivery Boy Dashboard**



**Figure 3. 14: Manage Return Products**

## 2.4.4 Sequence Diagram

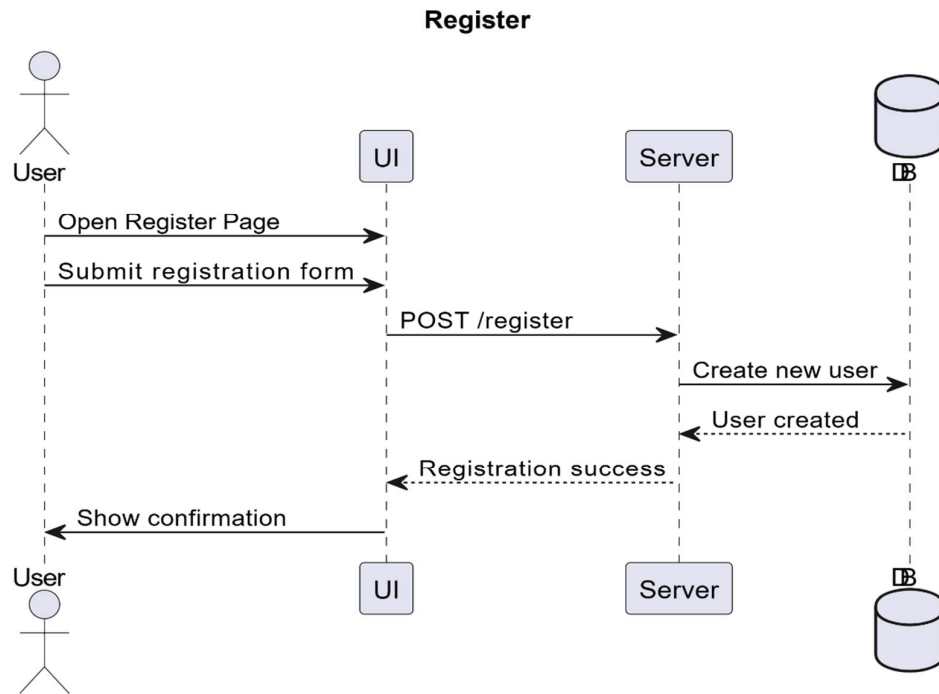


Figure 4.1: Registration

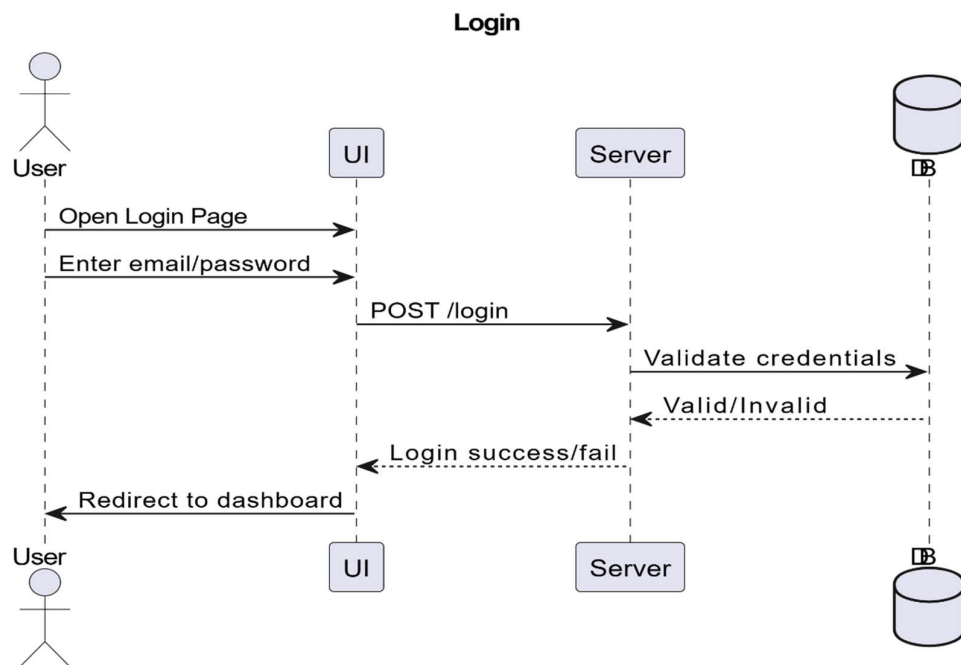


Figure 4.2: Login

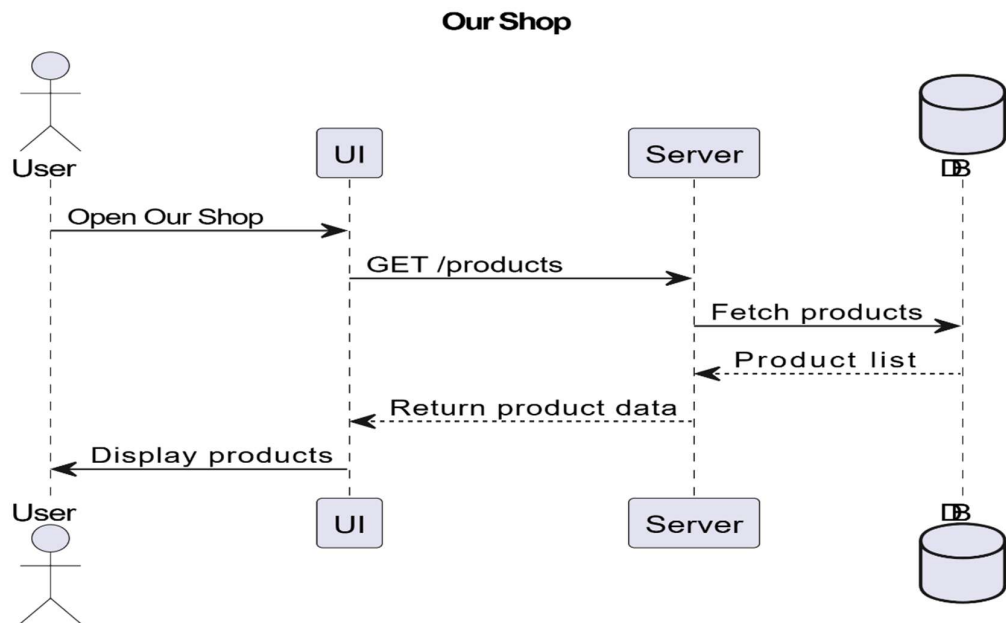


Figure 4.3: Our Shop

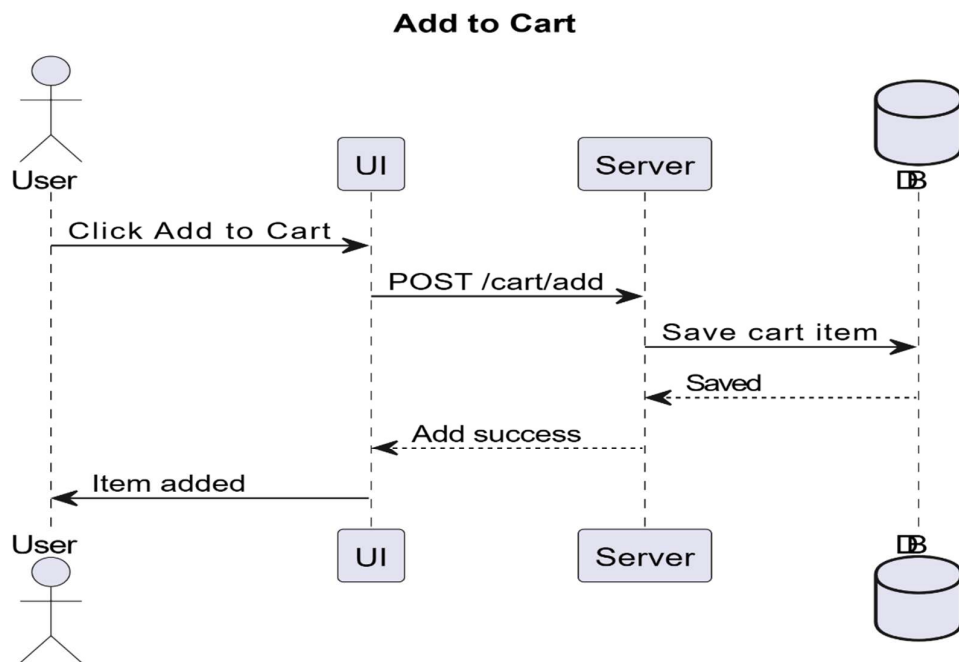
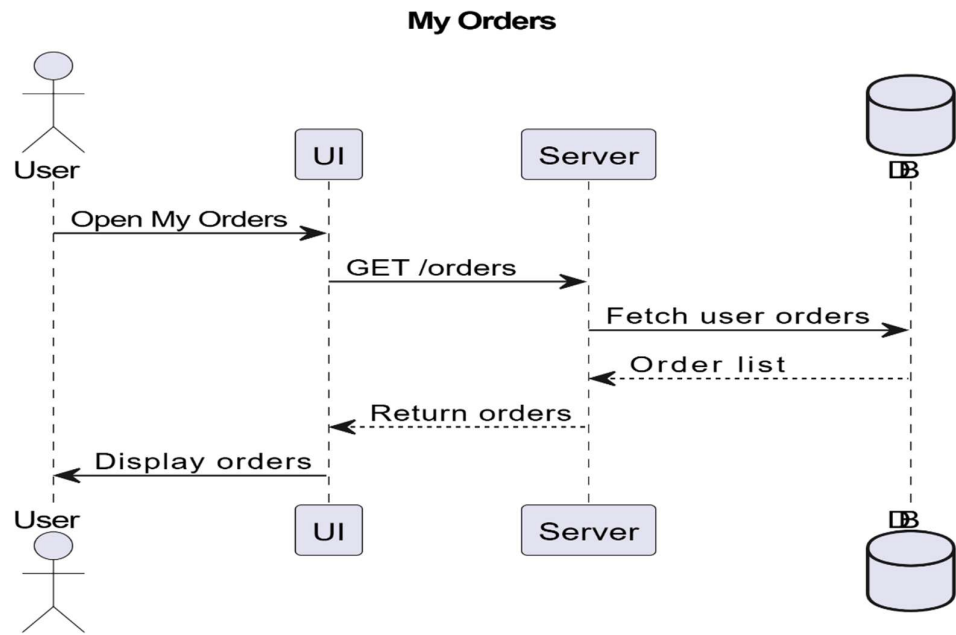
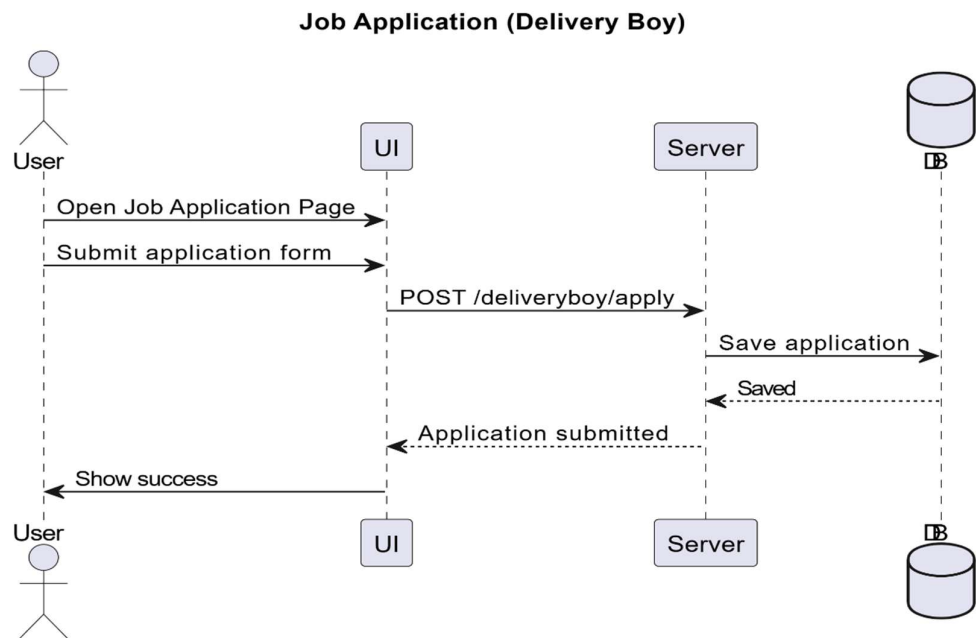


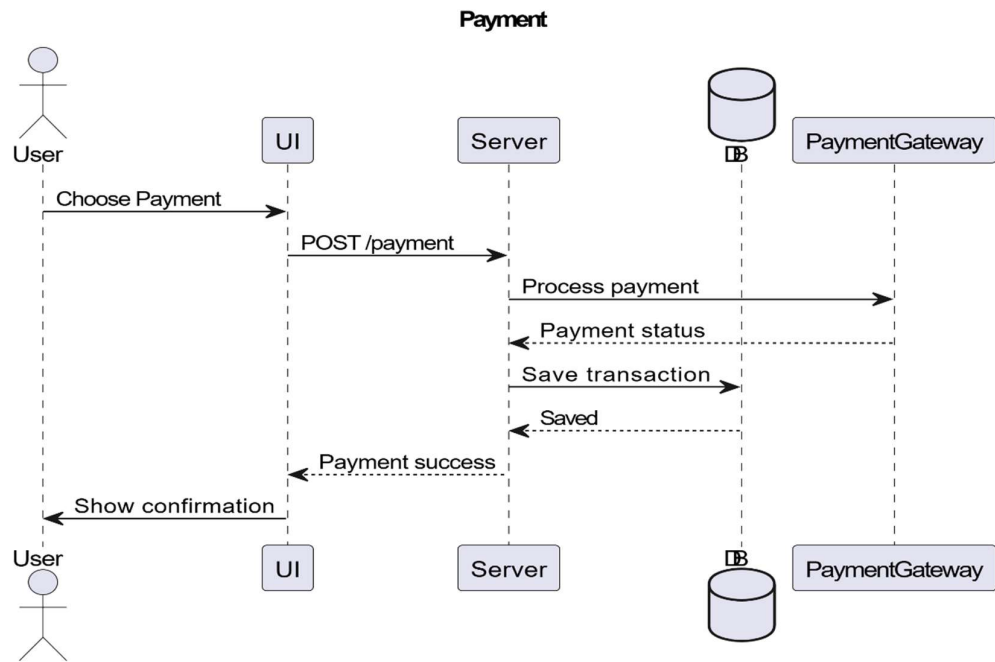
Figure 4.4: Add to Cart



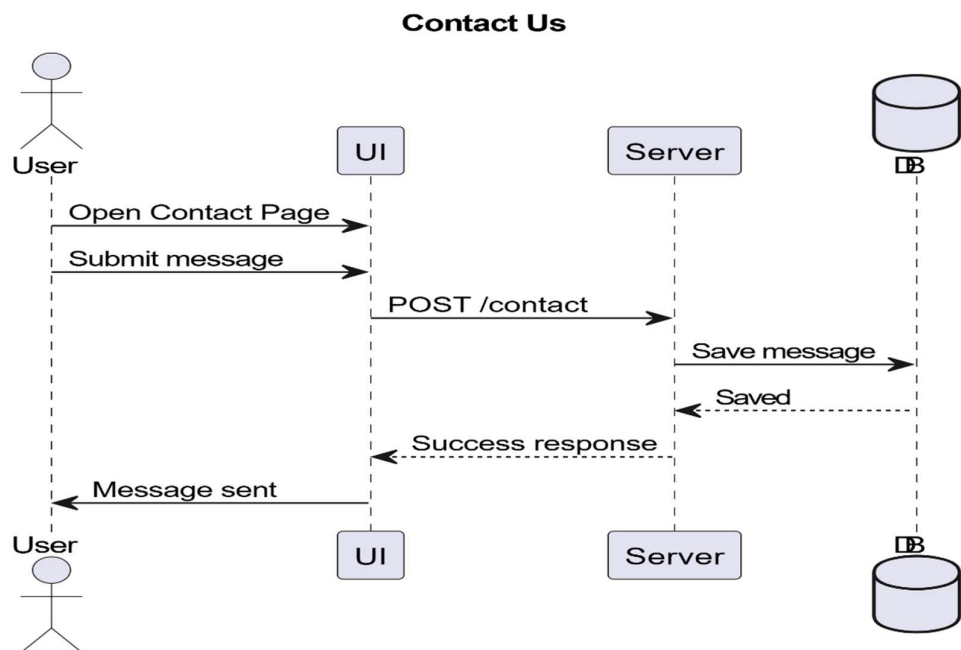
**Figure 4.5: My Order**



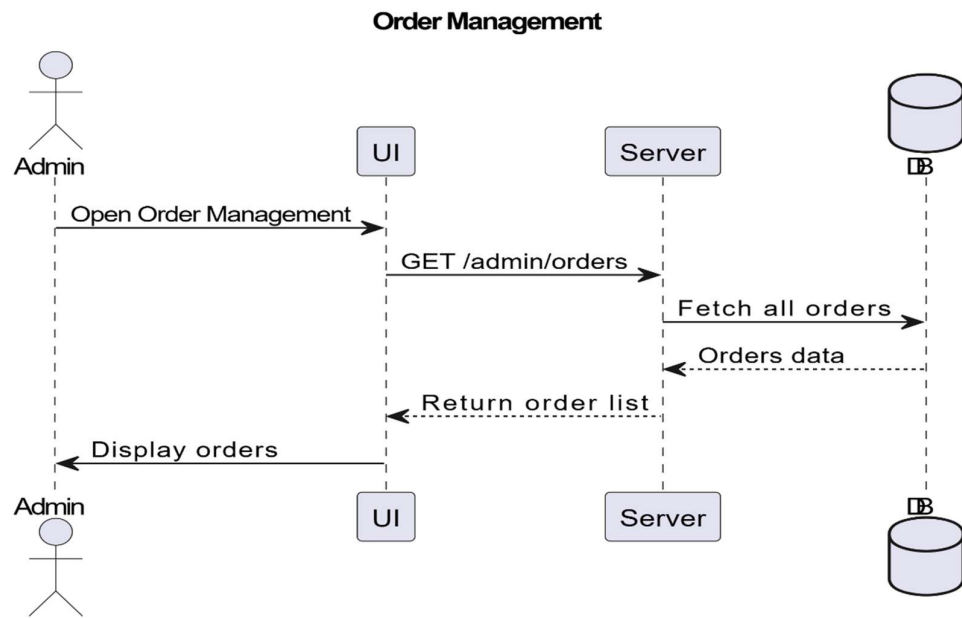
**Figure 2. 6: Job Application (Delivery Boy)**



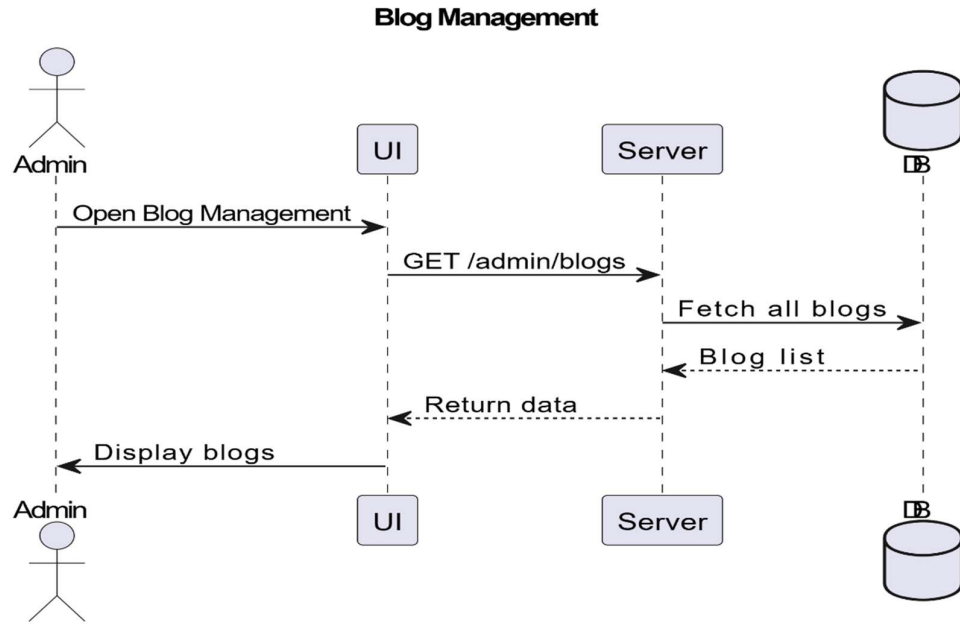
**Figure 4.7: Payment**



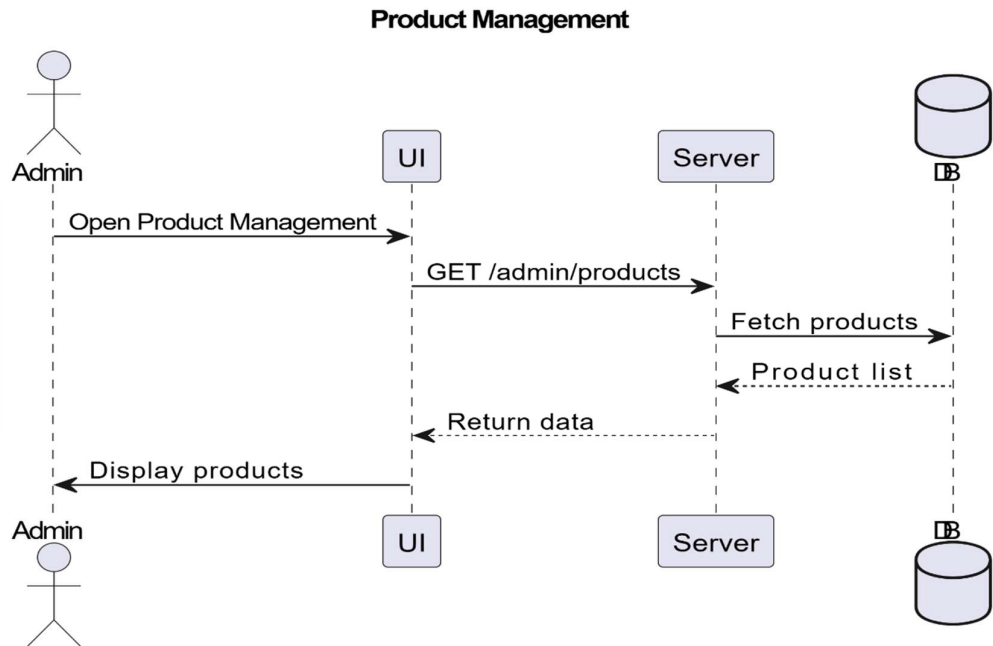
**Figure 4.8: Contact Us**



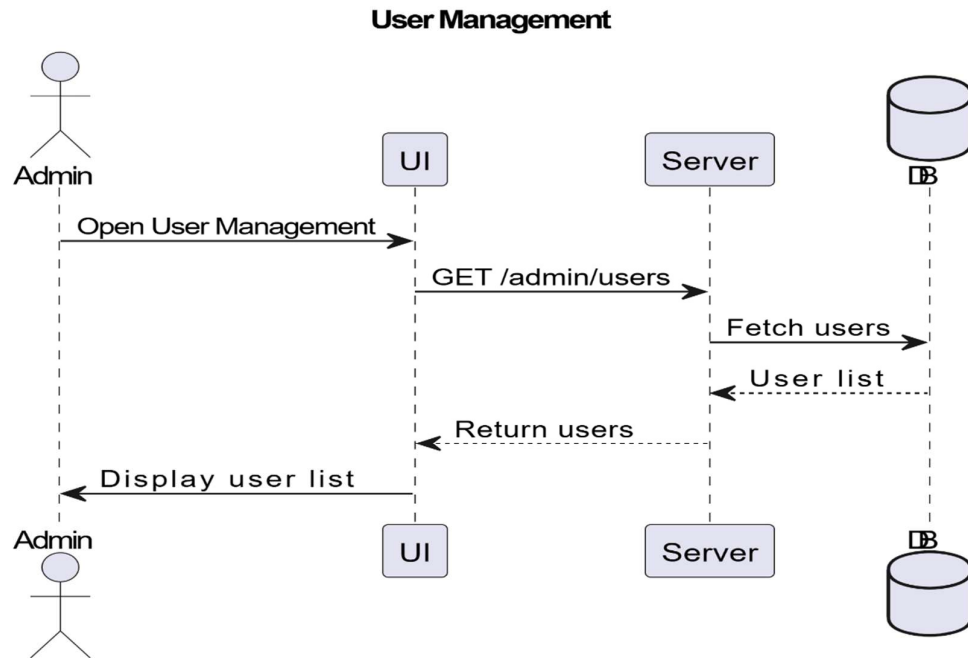
**Figure 4. 9: Order Management (Admin)**



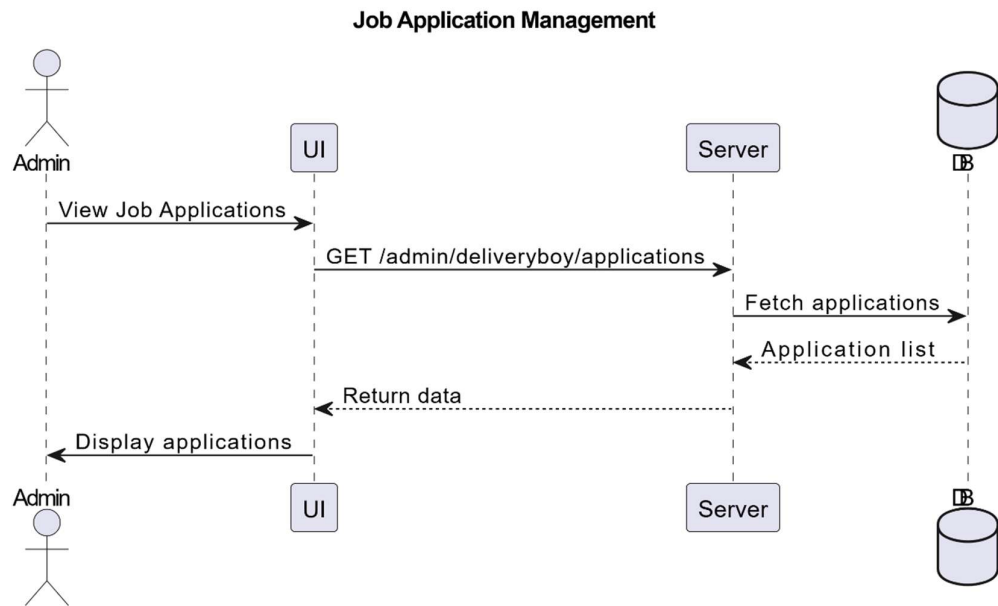
**Figure 4.10: Blog Management**



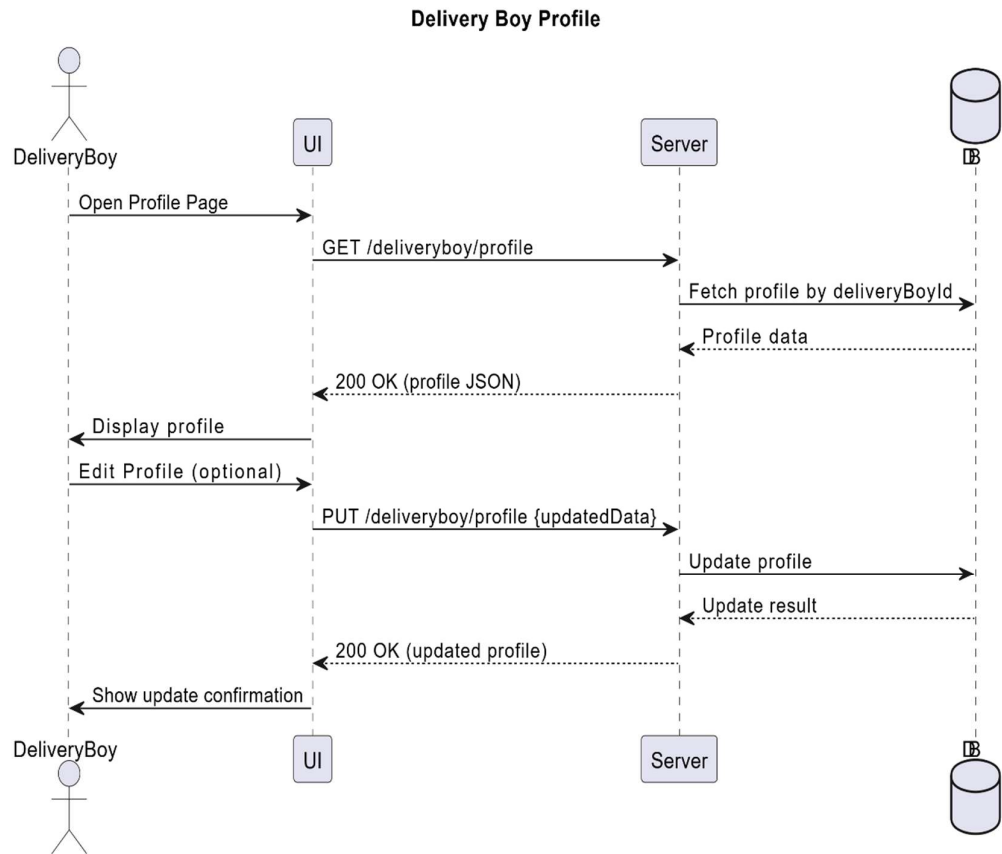
**Figure 4.11: Product Management (Admin)**



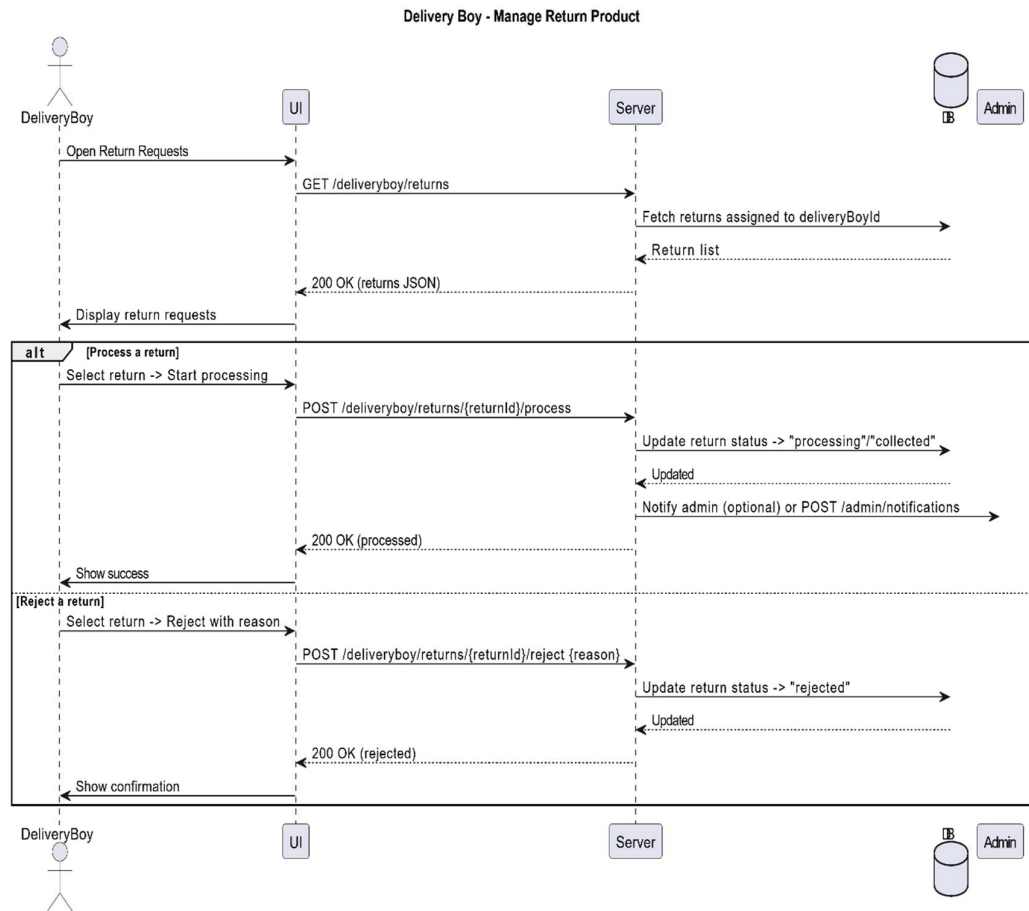
**Figure 4.12: User Management (Admin)**



**Figure 4.13: Job Application Management (Admin)**



**Figure 4.14: Delivery Boy Profile**



**Figure 4.15: Return Product (Delivery Boy)**

## 2. 4. 5 CLASS DIAGRAM

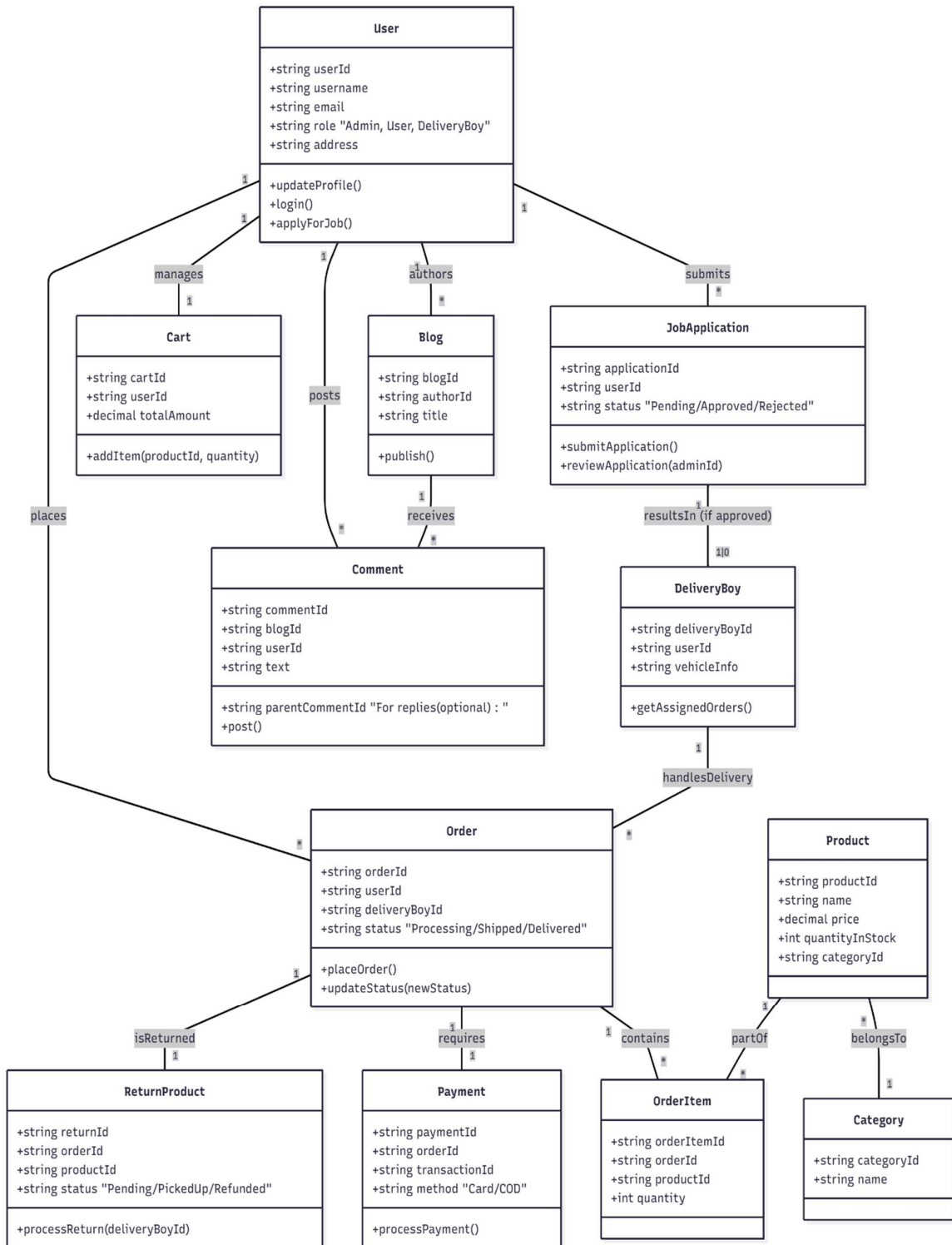


Figure 4: Class Diagram

## 2.4.6 ER DIAGRAM

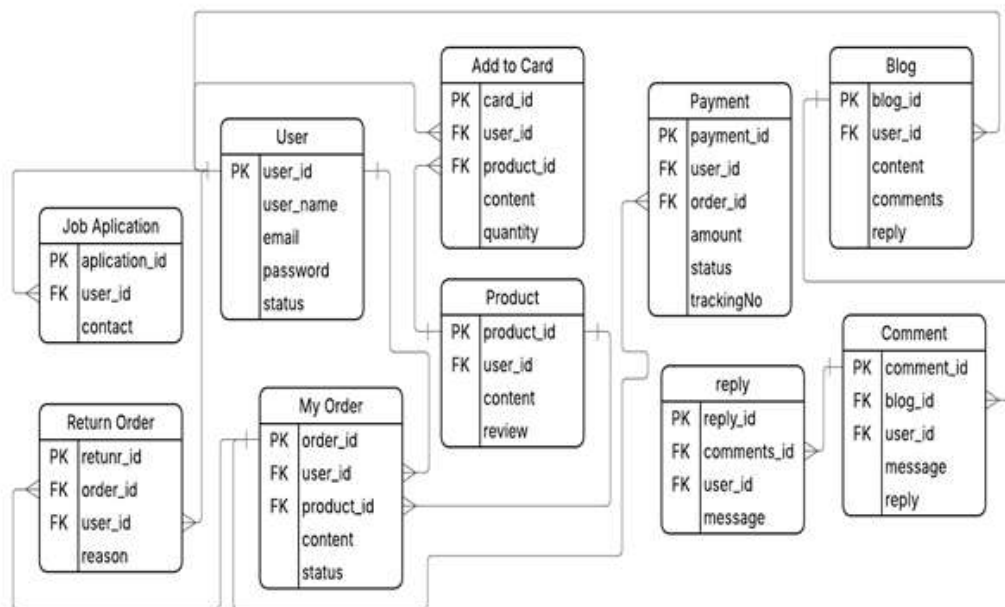


Figure 5: ER DIAGRAM

## 2.5 Appendices

The Coding Appendix provides a glimpse into the key components and functionalities of the SUPER SHOP e-commerce platform. It includes sample code snippets highlighting essential features like user registration, product listing, and order management. Each code example demonstrates how Laravel is utilized to create a seamless. By showcasing these examples, the appendix emphasizes the platform's robust structure and maintainable coding practices, ensuring scalability and ease of use. All code are here in my GitHub

<https://github.com/suhanurrahman007/Fresher-Shop-Client>

## 2.6 Brief

I have outlined the design and implementation of the SUPER SHOP e-commerce platform. Because case diagrams gave me an overall view of interactions in the system, I used them to make sense of the functionality, sequence diagrams helped visualize the temporal aspect and ER diagrams helped visualize the data model of the system. These diagrams allowed me to visualize the platform structure and functionality in a clear-cut manner. Finally, I created and added sample code in Appendix A to demonstrate how this can be implemented in the Next.js framework. In this chapter, I demonstrate how I have developed the design into an operational system aligned with the platform's objectives.

# Chapter 3

## Software Testing

### 3.1 Introduction

Welcome to the seventh chapter of my SUPER SHOP e-commerce software development journey! So you test because it helps you to find and fix problems prior to deployment. The project has two main user groups, admins and customers, with different functionality. Admins handle items, orders and customer information and customers can view products, add to cart, and order. It maps every single aspect of the platform, including user sign-ups, product searches, shopping cart activities, orders, payment integration, and admin functionalities. I achieve this by running different types of tests, including unit tests, etc. This chapter discusses some of the efforts made to ensure the platform remains stable and functional.

### 3.2 Experimental Features

#### 3.1.1 Features to Be Experimental

- a. Sign up
- b. Login
- c. Product Browsing
- d. Add to Cart
- e. View Order(User)
- f. Admin Login
- g. Admin Dashboard
- h. Add Blog
- i. Add Product
- j. View Order(Admin)

## **3.2 Testing Strategies**

### **3.2.1 Test Approach**

For my SUPER SHOP e-sales platform, I have outlined a comprehensive testing strategy to make sure everything runs smoothly and meets the specifications. How is functional testing on an e-commerce web app done? Functional testing is performed to ensure important functionalities such as user registration, user login, product searching, cart management, and order processing are working as expected. Additionally, I will check the performance of the platform to ensure that it is able to manage high traffic and large data. Because customers and admins will be using the platform, usability testing will ensure that users can navigate the platform seamlessly. Integration testing will ensure that all components of the system, such as the front end, back end, payment gateways, and database, work properly together. I will also perform security testing to discover and resolve vulnerabilities to secure user data. Finally, I am going to do regression testing to check whether any of the fixes introduce new bugs. This will ensure that the platform is reliable, secure, and easy to use.

### **3.2.2 Pass/Fail Criteria**

For my SUPER SHOP e-commerce platform, I've set simple pass/fail criteria based on what the platform is supposed to do and what users expect. In functional testing, a feature passes if it works correctly, providing the right output for valid inputs and handling errors properly. If it doesn't, it fails. For performance, the platform should load in under 3 seconds and be able to handle many users at once. If it can't, it fails. In security testing, we make sure the platform is secure and doesn't have issues like data leaks. If there are security flaws, it fails. Usability testing ensures the platform is easy to use and the instructions are clear. If it's confusing or hard to use, it fails. Lastly, accessibility testing checks if everyone, including people with disabilities, can use the platform. If it doesn't meet these standards, it fails. Any problems found will be fixed before the platform can go live.

### 3.3 End-to-End testing

**Table 3.1: Trial Report User Registration.**

<b>Trial: 3.1</b>			<b>Test Case Name:</b> User Registration				
<b>System:</b> Super SHOP e-commerce			<b>Subsystem:</b> User Authentication				
<b>Designed by:</b> User			<b>Design Date:</b> 25/10/2025				
<b>Executed by:</b> User			<b>Execution Date:</b> 24/10/2025				
			<b>Description:</b> The user registers for the Sales and Inventory System by providing valid registration information.				
			<b>Pre-condition:</b> The user accesses the registration page.				
Step	Name	Email	Password	Retype password	Response	Pass / Fail	Comment
1	User	user@gmail.com	12345678	12345678	Registration Successful	Pass	Registration is successful with valid input.
2	UseR	user@gmail.com	12345678	12354678	Name is Invalid	Fail	Write your name again
3	User	user@gmail.com	12345678	12345698	Password is Mismatch	Fail	Please write your password
4	User	usooer@gmail.com	12345678	12345678	Email is not valid	Fail	Please write right email
<b>Post-condition:</b> The user is successfully registered with valid information, and the process is complete.							

**Table 3.2: Trial Report for User Login**

<b>Trial: 3.2</b>			<b>Test Case Name:</b> User Login			
<b>System:</b> Super SHOP e-commerce			<b>Subsystem:</b> User Authentication			
<b>Designed by:</b> User			<b>Design Date:</b> 25/10/2025			
<b>Executed by:</b> User			<b>Execution Date:</b> 24/10/2025			
			<b>Description:</b> The user registers for the Sales and Inventory System by providing valid registration information.			
			<b>Pre-condition:</b> The user accesses the registration page.			
Step	Name	Email	Password	Response	Pass / Fail	Comment
1	User	user@gmail.com	12345678	Login Successful	Pass	User logs in successfully with valid credentials.
2	User	user@gmail.com	12345679	Invalid Password	Fail	Password is incorrect. Please try again.
3	User	nuser@gmail.com	12345678	User Not Found	Fail	Email is not registered
4	User	user@gmail.com		Password Missing	Fail	Password field cannot be empty.
<b>Post-condition:</b> The user is successfully logged in with valid credentials.						

**Table 3.3: Trial Report for Product Browsing**

<b>Trial: 3.3</b>		<b>Test Case Name:</b> Product Browsing		
<b>System:</b> Super e- commerce		<b>Subsystem:</b> Product Catalog		
<b>Designed by:</b> User		<b>Design Date:</b> 25/10/2025		
<b>Executed by:</b> User		<b>Execution Date:</b> 24/10/2025		
		<b>Description:</b> The user browses the product categories and product details.		
		<b>Pre-condition</b>		
<b>Step</b>	<b>Action</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
1	Browse Categories	Categories displayed	Pass	Categories are shown correctly
2	View Product	Product details displayed	Pass	Product details are shown correctly.
3	Filter Products	Filter results displayed	Pass	Products are filtered correctly
<b>Post-condition:</b> The user can browse products, view details, and add items to the cart				

**Table 3.4: Trial Report for Add to Cart**

<b>Trial: 3.4</b>		<b>Test Case Name: Add to Cart</b>			
<b>System: Super SHOP e-commerce</b>		<b>Subsystem: Shopping Cart</b>			
<b>Designed by: User</b>		<b>Design Date: 25/10/2025</b>			
<b>Executed by: User</b>		<b>Execution Date 24/10/2025</b>			
		<b>Description: user adds to the cart.</b>			
		<b>Pre-condition: Accessed a product</b>			
<b>Step</b>	<b>Action</b>	<b>Quantity</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
1	Product A	1	Product added to cart	Pass	Product is successfully add to cart.
2	Product B	2	Product added to car	Pass	Multiple quantity added to cart.
3	Product C	0	Invalid Quantity	Fail	Quantity cannot be zero.
4	Product D	-1	Invalid Quantity	Fail	Quantity cannot be negative.
<b>Post-condition: The product is added to the cart successfully.</b>					

**Table 3.5: Trial Report for Admin Login**

<b>Trial: 3.5</b>		<b>Test Case Name:</b> Admin Login			
<b>System:</b> Super SHOP e-commerce		<b>Subsystem:</b> Admin Authentication			
<b>Designed by:</b> Admin		<b>Design Date:</b> 25/10/2025			
<b>Executed by:</b> User		<b>Execution Date:</b> 24/10/2025			
		<b>Description:</b> The admin logs into the system with valid credentials.			
		<b>Pre-condition:</b> The admin has valid login credentials.			
<b>Step</b>	<b>Email</b>	<b>Password</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
1	admin@gmail.com	12345678	Login Successful	Pass	User logs in successfully with valid credentials.
2	admin@gmail.com	12345679	Invalid Password	Fail	Password is incorrect. Please try again.
3	admin@gmail.com	12345678	admin Not Found	Fail	Email is not registered
4	admin@gmail.com		Password Missing	Fail	Password field cannot be empty.
<b>Post-condition:</b> Admin login..					

**Table 3.6: Trial Report for Admin Dashboard**

<b>Trial: 3.6</b>		<b>Test Case Name:</b> Admin Dashboard		
<b>System:</b> Super SHOP e-commerce		<b>Subsystem:</b> Admin Management		
<b>Designed by:</b> Admin		<b>Design Date:</b> 25/10/2025		
<b>Executed by:</b> Admin		<b>Execution Date:</b> 24/10/2025		
		<b>Description:</b> The admin accesses the dashboard and views the system status.		
		<b>Pre-condition:</b> The admin is logged in.		
<b>Step</b>	<b>Action</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
1	Access Dashboard	Dashboard loads successfully	Pass	Dashboard is displayed with key metrics.
2	View Orders	Orders displayed correctly	Pass	Orders are shown in the dashboard..
3	View Users	Users list displayed	Pass	User list is available for management.
<b>Post-condition:</b> The admin can view important data on the dashboard, such as orders and users.				

**Table 3.7: Trial Report for Add Category**

<b>Trial: 3.7</b>		<b>Test Case Name Add Category</b>		
<b>System: Super SHOP e-commerce</b>		<b>Subsystem: Admin Product Category</b>		
<b>Designed by: Admin</b>		<b>Design Date: 25/10/2025</b>		
<b>Executed by: Admin</b>		<b>Execution Date 24/10/2025</b>		
		<b>Description: Admin added new product category.</b>		
		<b>Pre-condition: admin login.</b>		
<b>Step</b>	<b>Category Name</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
1	Electronics	Category added successfully	Pass	Category is added to the system.
2	Clothing	Category added successfully	Pass	Category is added to the system.
3		Category name is missing	Pass	Category name is required.
<b>Post-condition: A new category is added to the product catalog..</b>				

**Table 3.8: Trial Report for Add Blog**

<b>Trial: 3.8</b>		<b>Test Case Name Add Blog</b>		
<b>System: Super SHOP e-commerce</b>		<b>Subsystem: Admin Add Blog</b>		
<b>Designed by: Admin</b>		<b>Design Date: 25/10/2025</b>		
<b>Executed by: Admin</b>		<b>Execution Date 24/10/2025</b>		
		<b>Description: admin added new Blog.</b>		
		<b>Pre-condition: admin login.</b>		
<b>Step</b>	<b>Category Name</b>	<b>Response</b>	<b>Pass / Fail</b>	<b>Comment</b>
<b>1</b>	Food	Blog added successfully	<b>Pass</b>	Blog is added to the system.
<b>2</b>	Clothing	Blog added successfully	Pass	Blog is added to the system.
<b>3</b>		Blog name is missing	Pass	Blog name is required.
<b>Post-condition: A new Blog is added to the product catalog.</b>				

**Table 3.9: Trial Report for Add Product**

<b>Trial: 3.4.9</b>		<b>Test Case Name</b> Add Product				
<b>System:</b> Super SHOP e-commerce		<b>Subsystem:</b> Admin Product				
<b>Designed by:</b> Admin		<b>Design Date:</b> 25/10/2025				
<b>Executed by:</b> Admin		<b>Execution Date</b> 24/10/2025				
		<b>Pre-condition:</b> admin login.				
<b>Step</b>	<b>Product Name</b>	<b>Category Name</b>	<b>Price</b>	<b>Quantity</b>	<b>Pass / Fail</b>	<b>Response</b>
1	Laptop	Electronics	1000	10	Pass	Product added successfully.
2	T-shirt	Clothing	20	50	Pass	Product added successfully.
3	Smartwatch		150	30	Pass	Category is missing
<b>Post-condition:</b> A new product is added to the catalog...						

**Table 3.10: Trial Report for View Order (Admin)**

<b>Trial: 3.4.10</b>		<b>Test Case Name</b> View Order (Admin)			
<b>System:</b> Super SHOP e-commerce		<b>Subsystem:</b> Admin Order Management			
<b>Designed by:</b> Admin		<b>Design Date:</b> 25/10/2025			
<b>Executed by:</b> Admin		<b>Execution Date</b> 24/10/2025			
		<b>Description:</b> The admin views a customer order in the admin portal.			
		<b>Pre-condition:</b> Admin login and view orders.			
Step	Order ID	Action	Response	Pass /Fail	Response
1	12345	View Orders	Order details displayed	Pass	Order details displayed correctly.
2	12346	View Order	Order details displayed	Pass	Order details displayed correctly.
3	12347	Invalid Order ID	Order not found	Fail	Invalid order ID provided.
<b>Post-condition:</b> The admin is able to view and manage customer orders.					

### 3.4 Summary

In this chapter, I covered the testing process for my SUPER SHOP e-commerce platform. The features written to be test were user registration, user login, product browsing, cart management, order viewing and admin functionalities. I also covered the testing methods (functional, performance, security, usability, etc.), and mentioned the specific pass/fail criteria for each. Also, I defined test cases for all features to have everything tested and working properly before the platform goes live.

# Chapter 4

## Arrangement and Support

### 4.1 Initiation

Topic explains Emplace conservation of SUPER SHOP ecommerce platform. Deployment involves making the platform live and accessible to druggies, while conservation helps keep everything working duly after it has gone live. We'll walk through the deployment conditions, terrain, and tools used during deployment and the conservation operations demanded to keep the platform stable, secure, and over to date.

### 4.2 Try to follow the SRLC (software release life cycle):

SRLC is one of the most significant stages of developing SUPER SHOP e-commerce during its life cycle. The successful launch of the platform goes through a set of stages (L2 & L3) with a well- defined process. Planning is the first stage, where a system is conceptualized, followed by development, where a system is erected. After testing phase, where platform is subordinated to some kind of tests to check if it's working duly, meeting all functional and non-functional conditions. Once the testing is passed, the platform is stationed and gets live. The coming phase of development, when the platform is running, is the conservation phase, which involves monitoring and troubleshooting, performing regular updates, and icing system security. By clinging to SRLC, every member is accepted in a structured manner and nothing skips any pivotal stages, performing in smaller bugs, minimum time-out, and progressive improvement of the platform. It also enables hastily perpetration of new features and advancements, allowing FRASHER SUPER SHOP to stay applicable and address stoner needs as they evolve. SRLC — Software Release Lifecycle Management.

# Chapter 5

## Stoner Guide

### 5. 1 Introduction

Chapter be user manual of SUPER SHOP e- commence platform. stoners will be walked through the system's pivotal features, navigating and using the system in step by step instructions. Doing so will help guests as well as directors how to do goods which will affect in making the experience of both of them easy and smooth. The manual will include how guests register, login, browse stores, manage shopping wagon, place Orders, and checkout. It will cover how to see products, add products to the wagon, and buy them right latterly, making sure guests have an easy shopping experience. For admins, it will be about administration from the backend. It must cover how to upload and manage orders, how to upload new products, how to modify products, and how to remove products from the system. They will also learn how to view customer orders, where they will be suitable to exercise and contemporize order status along with entering cargo details. It will also outline how you can pierce customer information and which admin is demanded to run it. One of the primary purposes of the companion is to offer straightforward way for anyone registering an account with the platform, whether they will be shopping on it or running a store on it. therefore, this chapter will guide both guests and the admin through the entire process and makes sure that thee- commerce takes place fluently.

## 5.2 Project Functionalities

### Login as user -

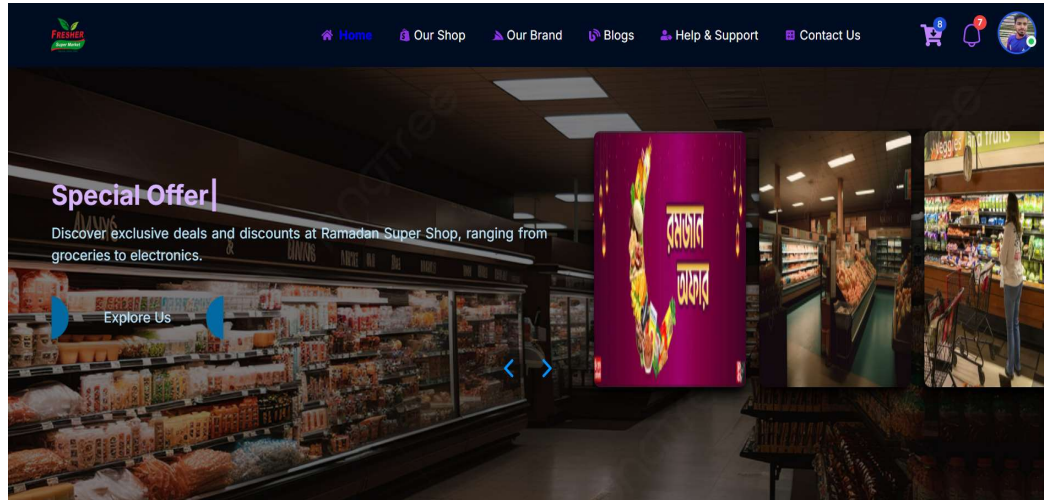
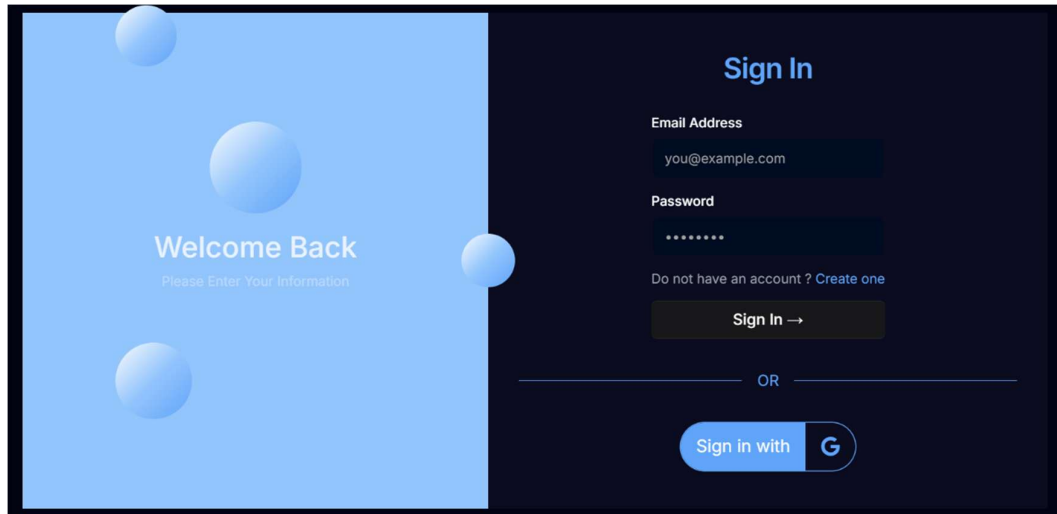


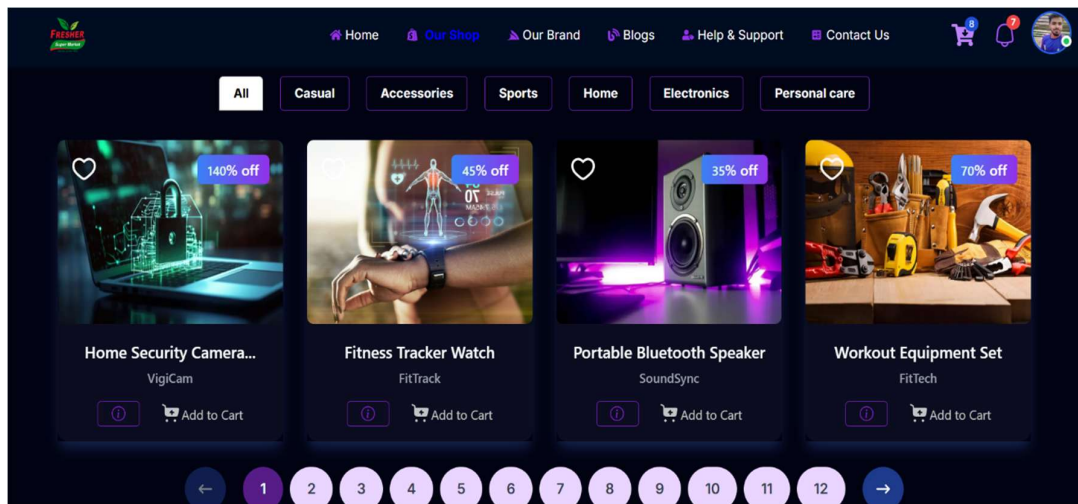
Figure 6.1: Home Page for All Stakeholder

The image displays a registration form titled 'Please Sign Up' on a dark background. The form includes several input fields: 'Full Name' with the value 'John Doe', 'Phone Number' with the value '01XXXXXXXXX', 'Email Address' with the value 'you@example.com', and 'Password' with a masked input (dots). To the right of the form, there is a text prompt: 'If you don't already have an account click the button below to create your account.' Below this prompt is a blue button labeled 'SIGN IN ACCOUNT'. Underneath the button is a link: 'Did you [forget your password?](#)'. Below the link is the word 'OR'. There are two more buttons: a blue button with the GitHub logo and the text 'SIGN IN WITH GITHUB', and a green button with the Google logo and the text 'SIGN IN WITH GOOGLE'. At the bottom of the form is a large, dark button labeled 'Sign up →'.

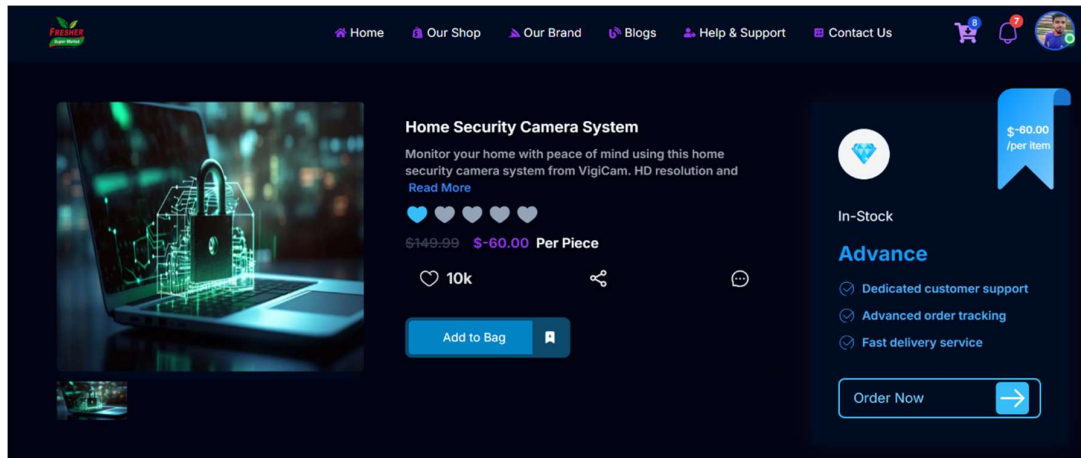
Figure 6.2: Registration for All Stakeholder



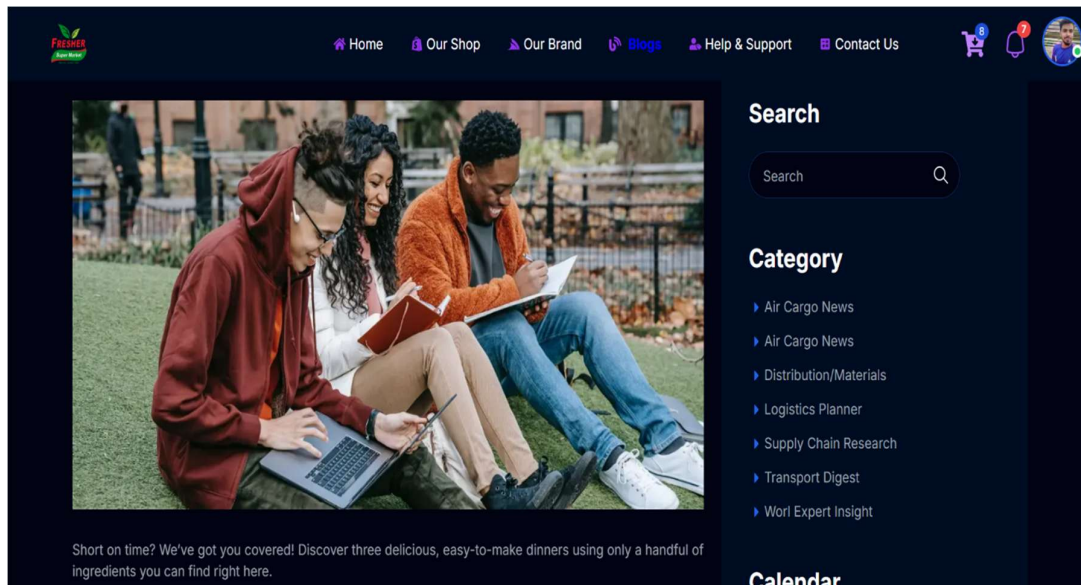
**Figure 6.3: Login for All Stakeholder**



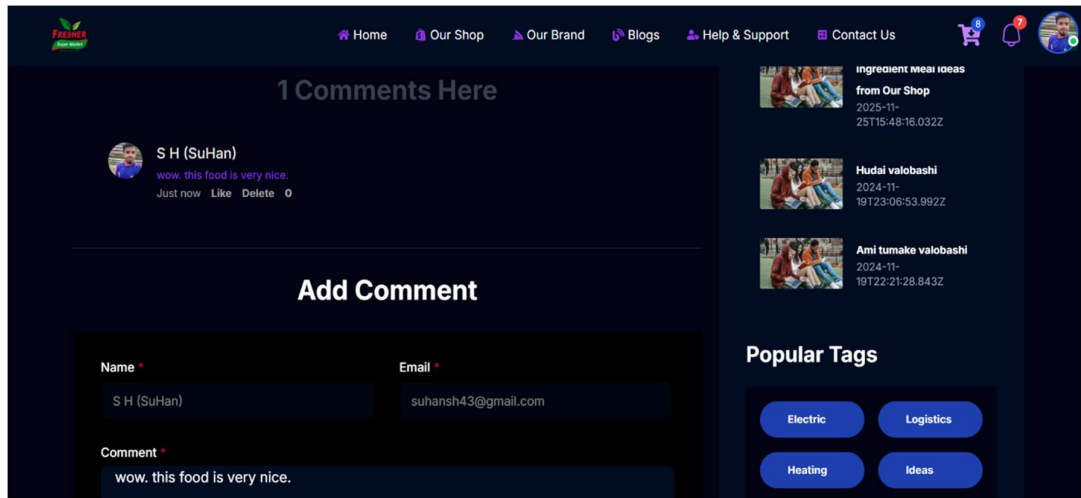
**Figure 6.4: Our Shop for All Stakeholder**



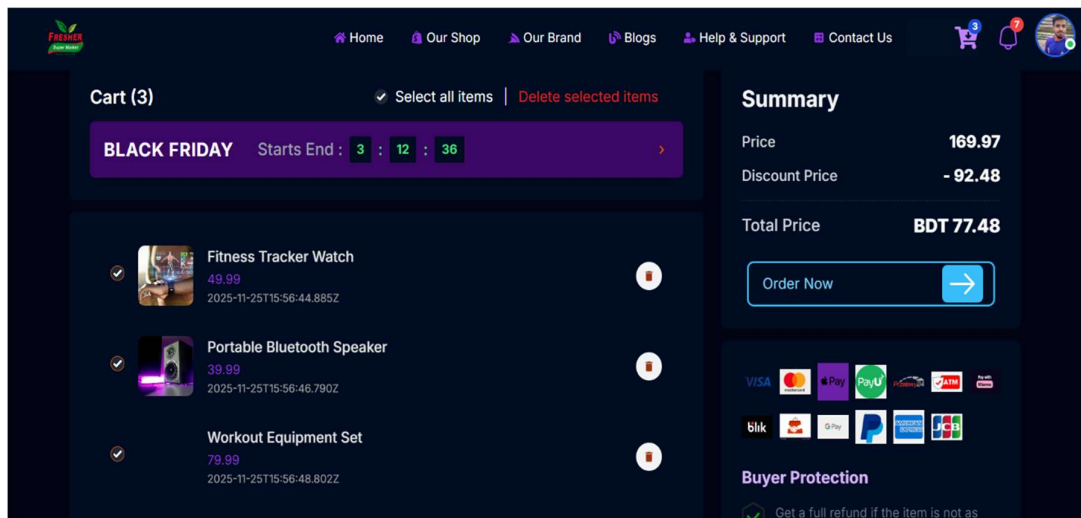
**Figure 6.5: Product Details for All Stakeholder**



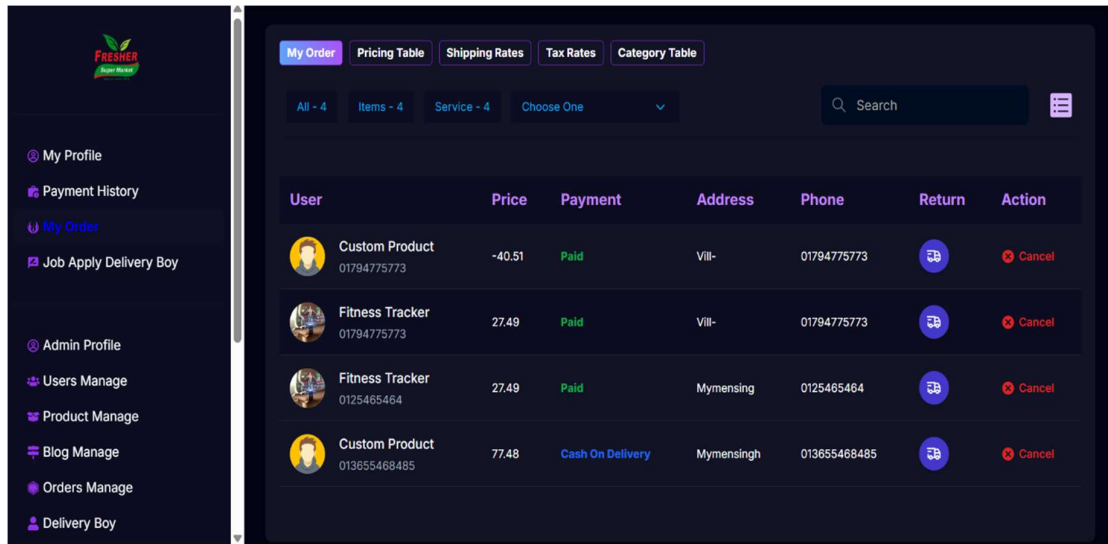
**Figure 5.6: Blog for All Stakeholder**



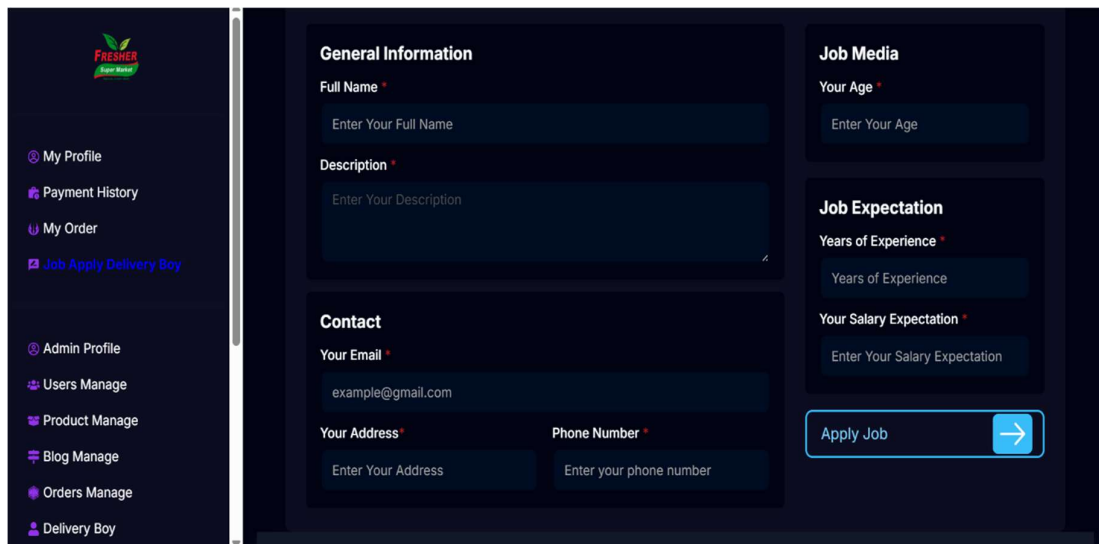
**Figure 6.7: Blog Comment for All Stakeholder**



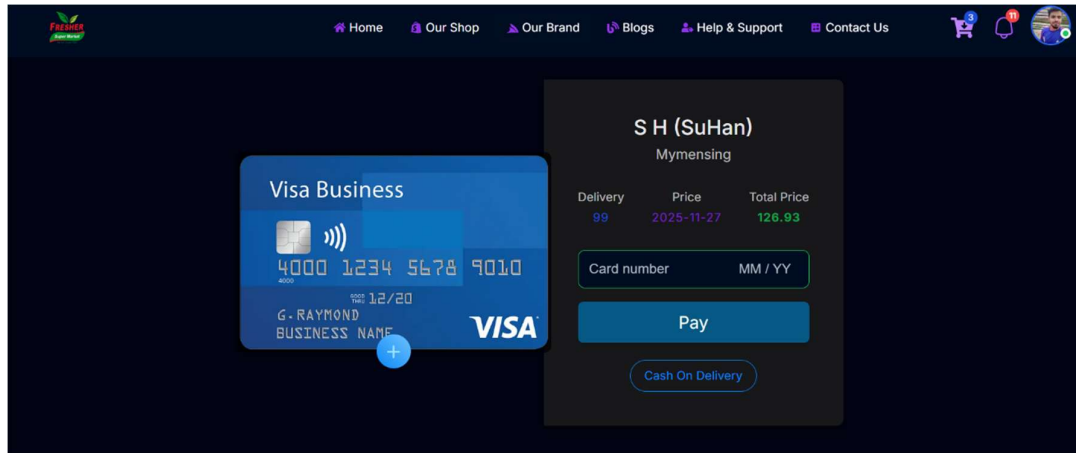
**Figure 6.8: Add Cart for All Stakeholder**



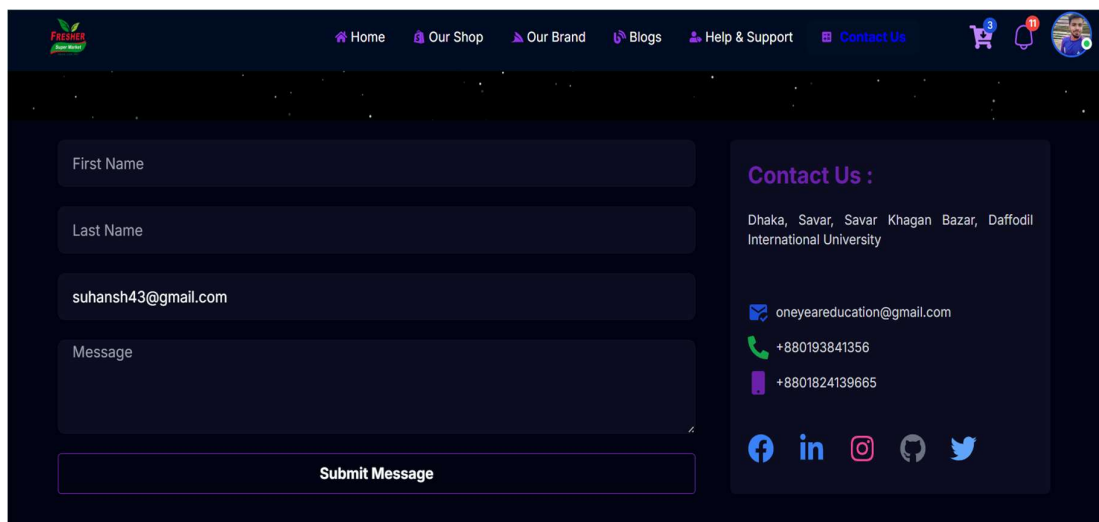
**Figure 6.9: My Order for All Stakeholder**



**Figure 6.10: Job Apply Delivery Boy for All Stakeholder**



**Figure 6.11: Payment for All Stakeholder**



**Figure 6.12: Contact Us for All Stakeholder**

## Admin as Login –



Figure 6.13: Admin Profile for All Stakeholder

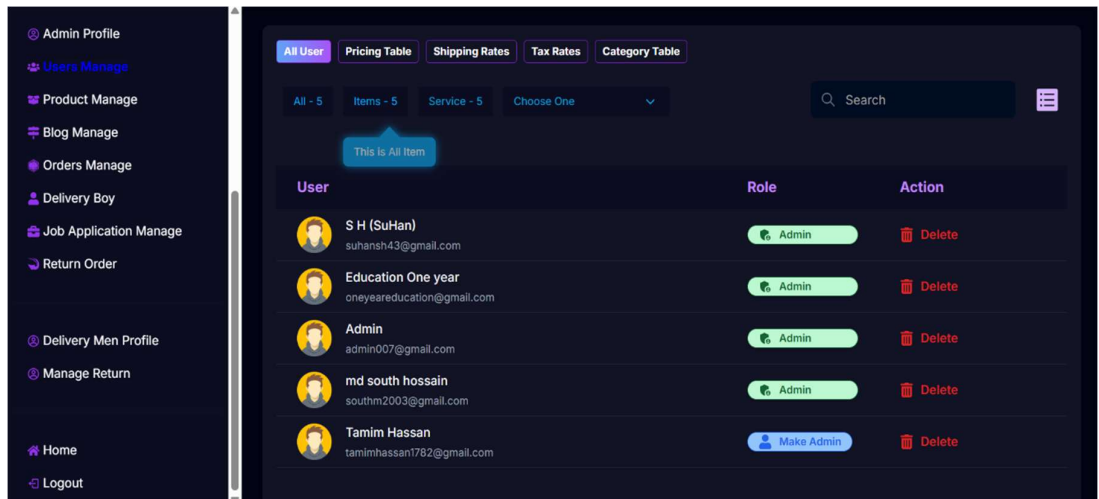
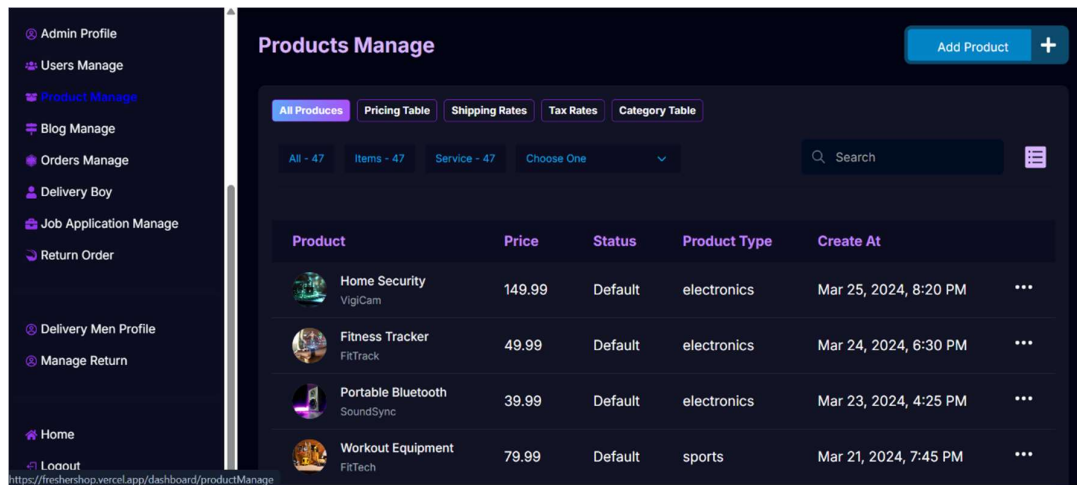
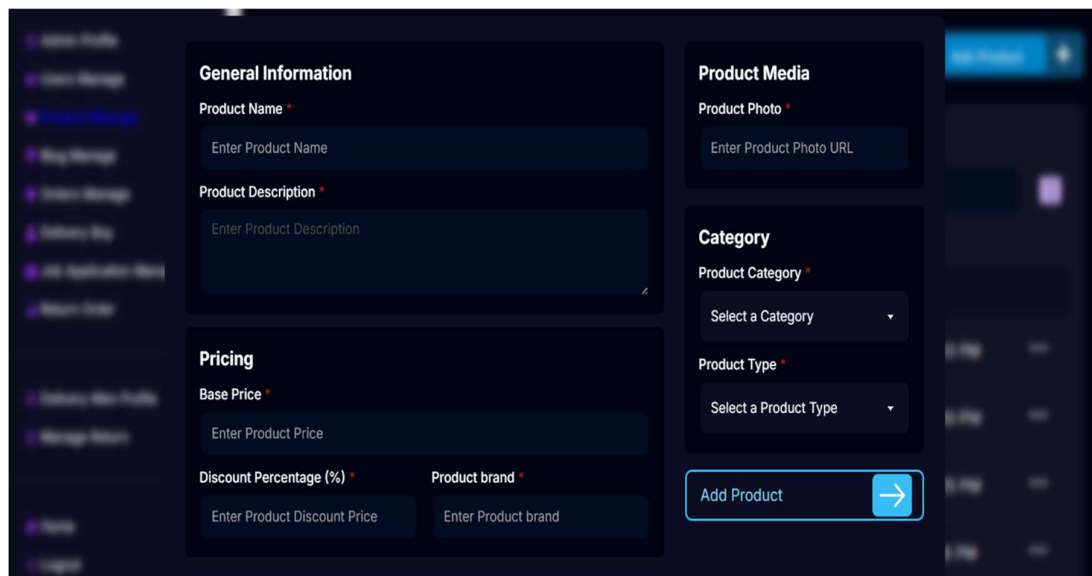


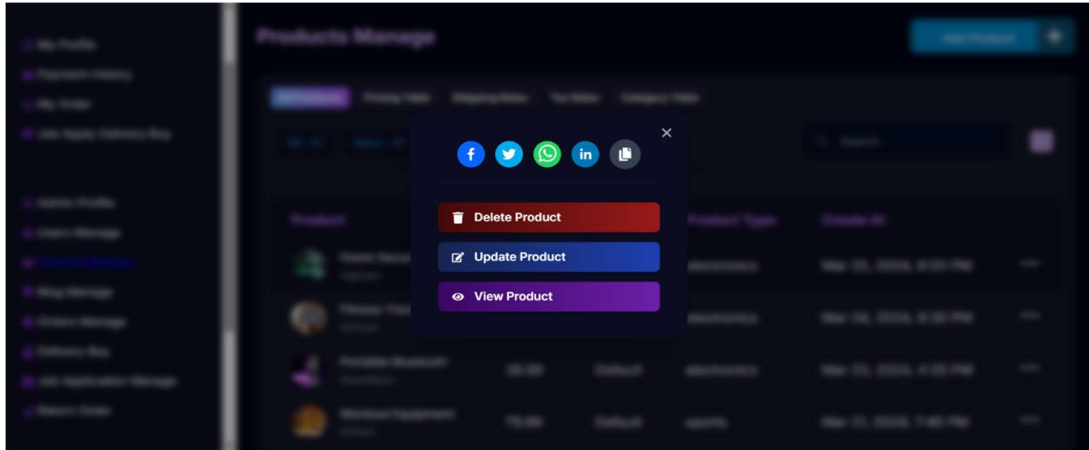
Figure 6.14: User Manage for All Stakeholder



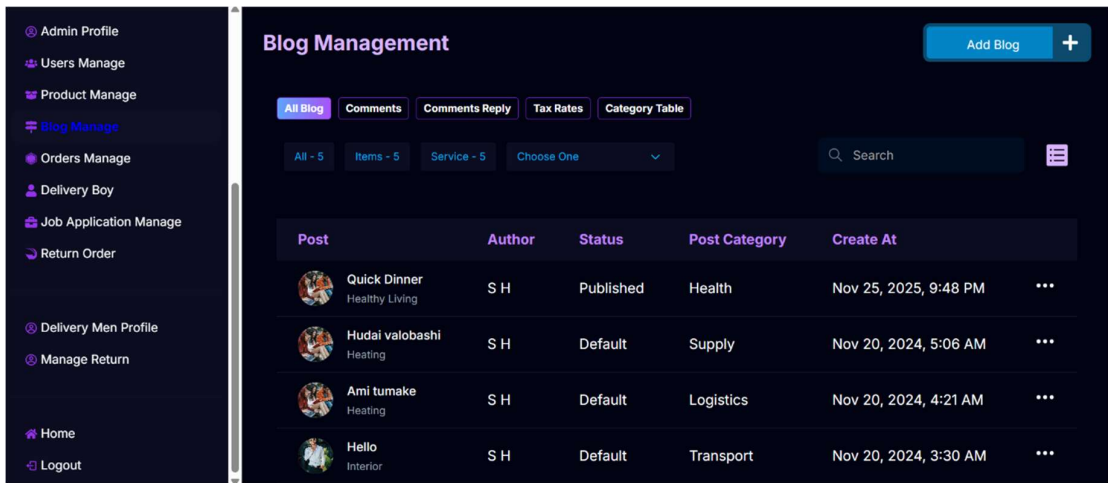
**Figure 6.15: Product Manage for All Stakeholder**



**Figure 6.16: Add Product for All Stakeholder**



**Figure 6.17: Product Update for All Stakeholder**



**Figure 6.18: Blog Manage for All Stakeholder**

The screenshot displays the 'Order Manage' interface. The sidebar on the left contains the following menu items: Admin Profile, Users Manage, Product Manage, Blog Manage, Orders Manage (highlighted), Delivery Boy, Job Application Manage, Return Order, Delivery Men Profile, Manage Return, Home, and Logout. The main content area features a top navigation bar with tabs: All Order (selected), Pricing Table, Shipping Rates, Tax Rates, and Category Table. Below the tabs, there are filters: All - 5, Items - 5, Service - 5, and Choose One. A search bar is also present. The main table lists orders with the following columns: User, Price, Payment, Address, Create At, Status, and Action.

User	Price	Payment	Address	Create At	Status	Action
S H 01794775773	27.49	Paid	Vill-	Mar 16, 2025	Delivered	Delete
9009798	-60.00	Paid	myuhjnk	Mar 27, 2025	Delivered	Delete
S H 0125465464	27.49	Paid	Mymensing	Nov 24, 2025	Delivered	Delete
S H 0136554654	77.48	Cash On Delivery	Mymensing	Nov 25, 2025	pending	Delete
S H 01994876785	27.49	Cash On Delivery	Mymensing	Nov 25, 2025	pending	Delete

Figure 6.19: Order Manage for All Stakeholder

The screenshot displays the 'Delivery Boy Manage' interface. The sidebar on the left contains the following menu items: Admin Profile, Users Manage, Product Manage, Blog Manage, Orders Manage, Delivery Boy (highlighted), Job Application Manage, Return Order, Delivery Men Profile, Manage Return, Home, and Logout. The main content area features a top navigation bar with tabs: Delivery Boy History (selected), Pricing Table, Shipping Rates, Tax Rates, and Category Table. Below the tabs, there are filters: All - 1, Items - 1, Service - 1, and Choose One. A search bar is also present. The main table lists delivery boys with the following columns: User, Phone Number, Address, Role, Create At, and Action.

User	Phone Number	Address	Role	Create At	Action
Sagor Biswas sagorbiswas2025@gmail.com	01794775773	Vill- Kailati	delivery boy	Jan 29, 2025	Delete

Figure 6.20: Delivery Boy Manage for All Stakeholder

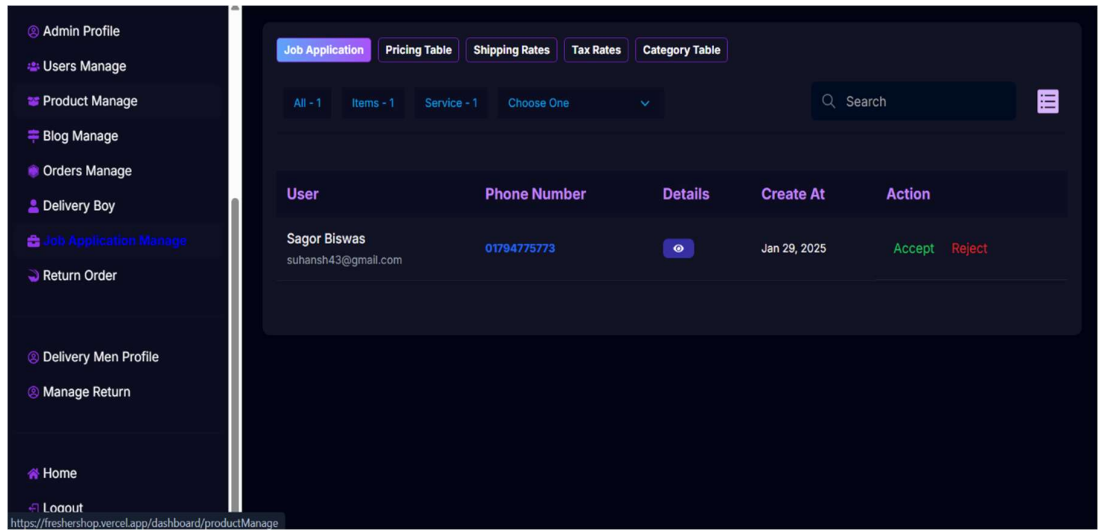


Figure 6.21: Job Application Manage for All Stakeholder

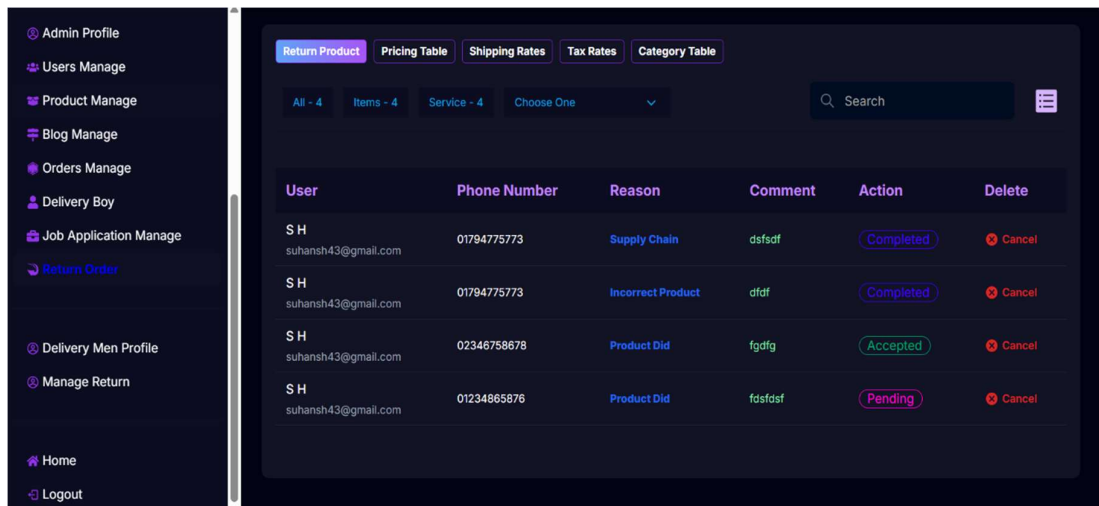


Figure 6.22: Return Order Manage for All Stakeholder

## Delivery Boy as Login –

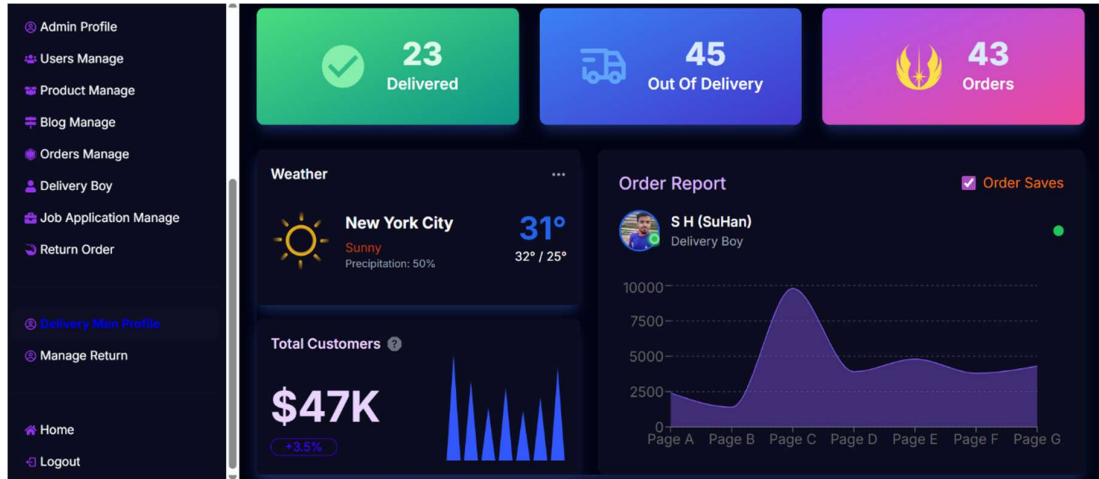


Figure 6.23: Delivery Boy Profile for All Stakeholder

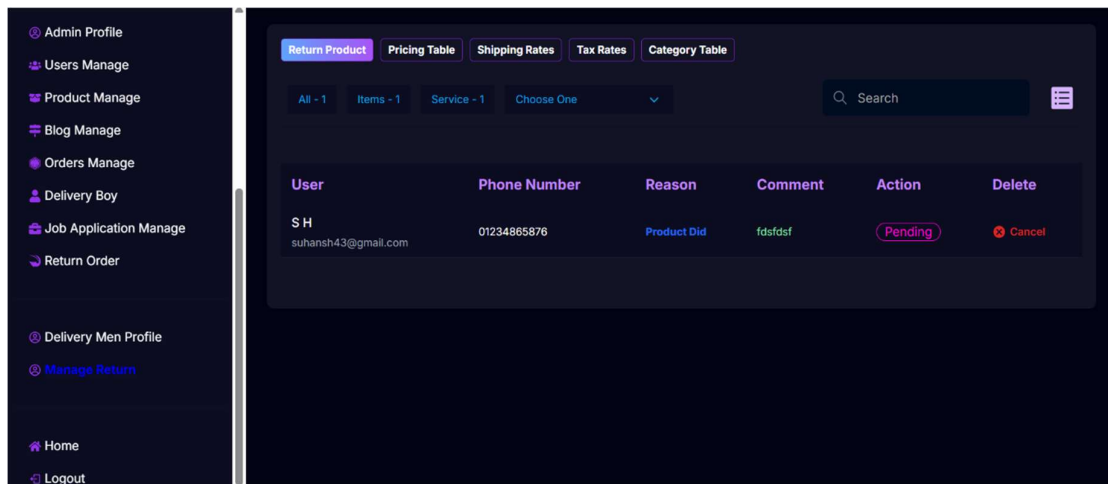


Figure 6.24: Manage Return for All Stakeholder

### **5.3 Summary**

SUPER SHOP is a stage-alone e-commerce company in shape of its actuality through institutional development that aims with not only to give SME's with digital results, secure payment integration and logistics operation. 3) Core functionalities of admin, stoner and ground staff similar as order shadowing, stock operation, a real-time dashboard to track delivery labor force with navigation details are included. The system is well-formed reality-connections( e.g., stoner- to - Order, Order- to - Product) make sure that the profile operates securely and maintains its limpidity through from order to delivery.

## **Chapter 6 Project Summary**

### **6.1 Introduction**

SUPER SHOP is an entire solution for Online Super Shop application in Android platform. The fundamental design of the system revolves around three unique locations — stoner, Admin and Delivery Boy — with technical utilities that are designed to operate over the full transactional life cycle, from product browsing and secure order processing to powerful e-commerce business control over orders, force and content elements for unprecedented arrangement and logistics operation including return of products.

### **6.2 Project Limitation**

The SUPER SHOP system has a number of limitations: it accepts the payment in one currency and simple manner; logistics function within the fixed service range, which use exterior GPS only. There is only SINGLE warehouse supported, and all your inventory is centralized. Importantly, the current version doesn't include high-level features such as real-time customer chat, ticketing systems, sophisticated promotional tiers or user product reviews and ratings.

### **6.3 Scope**

The three elements of the SUPER SHOP are users (customers, sellers or vendors),super shop owner (owner directly involved in operating) and delivery man(fulfillment). It encompasses the complete transactional process -- Users can browse products, read articles from the blog, and make payments. The Admin performs CRUD operations (products, orders, users and removing blogs) on one side of the screen, where the Delivery Boy is used to take care of logistics such as delivering items and hassle-free return initiation.

### **6.4 Future Work**

Development moving forward FRASHER SUPER SHOP will concentrate on enhancing the functionality of the platform by adding real-time customer support through live chat and also integrating user review and rating system. Planned further enhancements include scaling inventory management to accommodate multi-warehouse operations and adding dynamic shipping calculations. Lastly the platform will be enhanced to process multi-currency payments and for more advanced promotional discounting tiers.

### **6.5 Conclusion**

In Conclusion, The proposed model of SUPER SHOP is effectively accomplishing all core goals as we can see in the multiple roles game. The solution efficiently handles an entire transaction process: from assisting Users in shopping or confirming Payments to finally tracking Orders, and on the other side offers an Admin complete management over Products, Orders and Content. The delivery process is streamlined with the included Delivery Boy logistics system so you can easily handle orders and returns, making for a complete, scalable retail solution.

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