A Project Report On…

Mobile Shop Management System

Developed By…

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Submitted To…

Geetanjali Collage of Computer Science & Commerce

Saurashtra University

Rajkot

2024-2025

Guide Name…

PROF. Pranav Trivedi

ACKNOWLEDGEMENTS

While the report for my project work is ready, I feel it is my bounden duty to offer my sincere thanks to all those who have helped and guided me in this regard.

Action is very necessary to convert our dreams into reality. My dream was to develop this project. To make a successful and useful project, one needs help, understanding, and coordination from all those who are directly or indirectly involved in this.

Many people have contributed to making this project a reality. I would like to express my gratitude to our **Head of Department**, Prof. **Brijesh Shah**, for his guidance throughout the project.

While submitting the project report, it is my duty to offer my sincere thanks to those who have assisted me in preparing this project report. I would like to express my gratitude to Kishor Singh Vala for his guidance throughout the project. He helped me in the selection of this topic and guided me to the final completion of my project by reviewing the manuscript of the chapters and providing valuable suggestions.

Before I describe my project briefly, I would like to add a few heartfelt words for those people who have given their time and knowledge to developing this project. Last but not least, I am thankful to all my college faculties and friends for their kind cooperation.

A Special thanks from:

Pragnesh Chavda

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PREFACE

In the 5th semester of my Bscit program, we are required to prepare a project as a separate subject. This project involves thorough study and analysis of a particular subject, followed by the preparation of a comprehensive project report.

There is a significant difference between theoretical and practical knowledge, and understanding this distinction is crucial for the effective use of knowledge. The preparation of a project report has been a new and interesting experience for me. I must admit that it has been challenging from certain perspectives. Through this process, we gain insights into the theoretical concepts of the subject matter and their practical application. A project report also plays a vital role in building confidence in our lives.

It was felt that it is important and instructive not only to learn the principles of software engineering but also to apply them to a software development project. This approach allows us to clearly observe all aspects of development within a project.

By preparing this report, I have come to understand the importance of practical training in the field of education. It is easier to work with a computerized system than a manual one. Thisnot only saves time, effort, and space but also enhances efficiency by generating interest.

Our project pertains to "Mobile Shop management system." The project report contains information and details related to it.

This project is part of my Fifth semester of Bscit course curriculum. Geetanjali Collage of Computer Science & Commerce–Rajkot.

I have decided to develop a web application for my Bscit 5th semester using java technology . Our college has held a prominent position as one of the best colleges in Saurashtra University for a considerable duration.

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ABSTRACT

Description: Mobile Shop Management System Using JSP and Servlets

The Mobile Shop Management System is a web-based application designed to streamline the management of mobile sales, inventory, and customer service. Developed using JavaServer Pages (JSP) and Servlets, this system offers a dynamic and interactive platform for mobile shop owners to manage products, track sales, and provide efficient customer service.

Technologies Used:

1. **JavaServer(JSP)Pages: :**
   JSP is used to create dynamic web pages that present information to users. It enables the embedding of Java code into HTML pages, allowing the generation of dynamic content such as product listings, customer profiles, and order statuses.
2. **Servlets:**
   Servlets are used to handle HTTP requests and responses, process user inputs, manage session data, and interact with business logic. They act as controllers that bridge the presentation layer (JSP pages) with the business logic and data access layers, enabling smooth operations like inventory management, order processing, and customer interactions.

Conclusion:

The Mobile Shop Management System, developed using JSP and Servlets, provides a comprehensive and interactive platform for managing mobile shops. The use of JSP for dynamic content presentation and Servlets for handling requests and business logic ensures a scalable and maintainable solution, allowing mobile shop owners to efficiently manage their products, sales, and customer relationships.

PROJECT SUMMERY

Project Summary: Mobile Shop Management System

Objective:

To develop a comprehensive Mobile Shop Management System that allows shop owners to efficiently manage their inventory, sales, and customer relations. The system aims to provide an intuitive platform for managing product listings, customer profiles, and transactions, while offering advanced features for both shop owners and customers.

➢ Features:

1. **Admin Dashboard**

The Mobile Shop Admin Dashboard centralizes all business activities, providing an at-a-glance view of key metrics such as sales performance, inventory levels, customer interactions, and notifications. This dashboard ensures that mobile shop owners can manage day-to-day business operations seamlessly.

Essential functionalities include:

- Product Management
- Inventory Control and Tracking
- Sales Reports and Analytics
- Order and Delivery Management
- Customer Management and Feedback

2. **Product Listing and Purchase Process**

Customers can easily browse through available mobile products, view detailed specifications, check stock availability, and place orders. The system ensures that customers can interact directly with the product listings, adding items to their cart and completing transactions smoothly.

Key functionalities include:

- Easy Product Search and Filtering
- Product Details Page with Specifications and Pricing
- Add to Cart and Checkout
- Integrated Payment Gateway for Secure Transactions

3. **Order Management**

The system enables shop owners to handle customer orders efficiently, from order placement to delivery. Features such as real-time order tracking, order approval, and automated notifications ensure that the entire process is smooth and customer-friendly.

Features include:

- Order Approval and Fulfilment

Conclusion:

The Mobile Shop Management System offers a streamlined solution for managing all aspects of a mobile shop, from product listings and sales to customer service and inventory management. The system's user-friendly admindashboard, real-time inventory control, and efficient order processing make it a s and robust platform, ensuring that mobile shop owners can effectively manage their businesses while enhancing the shopping experience for their customers.

PROJECT GOAL

By achieving these goals, the Mobile Shope Management System aims to provide a valuable product for j seekers and employers, improving the overall efficiency and effectiveness of the product search

PROJECT PROFILE

Developed At	: Geetanjali College of Computer Science & Commerce.
Developed By	: Pragnesh Chavda
Division	: BSCIT Semester 5th
Project Name	: Mobile Shope
Main Pages	: View Product , Add to Cart, About Us, Contact Us, Login
Web Browser	: Google Chrome
Operating System	: Windows 11
Editor	: Eclipse Ide
Guided By	: Prof Pranav Trivedi

SYSTEM REQUIREMENTS

- **Software**

  - Any windows operating system windows 7 to windows 11
  - Web Browser (Google Chrome, Internet Explorer, etc…)
  - Front-End -> Html ,Css,JavaScript
  - Back-End -> Java
  - Database -> Mysql

- **Hardware**

  - Processor : Intel core i3 and after all
  - Back-End -> Java
  - Database -> Mysql
  - RAM 2 GB or Higher
  - HDD with 256GB or Higher

TECHNOLOGY REQUIREMENT

- **Front-End:**

HTML:

provides the basic structure and content of web pages.

CSS:

handles the presentation and layout, ensuring that web pages look appealing and are well-designed.

JavaScript:

adds interactivity and dynamic features, making web pages functional and responsive to user actions.

Together, these technologies form the foundation of web development, enabling the creation of modern, interactive, and visually engaging websites and web applications.

- **Back-End:**

Java:

Java is a widely-used, high-level programming language known for its portability, scalability, and robustness. It is a popular choice for backend development due to its strong performance, extensive libraries, and mature ecosystem.

- **Database:**

MySQL is an open-source relational database management system known for its reliability, flexibility, and ease of use. It is widely used for managing and organizing data in various applications, from small projects to large-scale enterprise systems.

TEST CASE

1. User Registration and Login

Test Case 1.1: User Registration

- **Objective:** Verify that a new user can register successfully.
- **Steps:**
    1. Navigate to the registration page.
    2. Enter valid user details (name, email, password, etc.).
    3. Click the "Register" button.
- **Expected Result:** The user should receive a confirmation email, and they should be redirected to the login page.

Test Case 1.2: User Login

- **Objective:** Verify that a registered user can log in with correct credentials.
- **Steps:**
    1. Navigate to the login page.
    2. Enter valid email and password.
    3. Click the "Login" button.
- **Expected Result:** The user should be logged in and redirected to the dashboard or home page.

Test Case 1.3: Incorrect Login Credentials

- **Objective:** Verify that the system handles incorrect login credentials correctly.
- **Steps:**
    1. Navigate to the login page.
    2. Enter an incorrect email or password.
    3. Click the "Login" button.
- **Expected Result:** The system should display an error message indicating invalid credentials.

DATA DICTIONARY

- User :

Email	Name	Mobile	Address	Pincpod	Password
admin@gmail.com	Admin User	9876543459	Raiya Road, bapasitaram chowk , Rajkot	786890	admin
guest@gmail.com	Guest User	9876543234	Raiya gam , radhika park	879767	guest
kartik@gmail.com	kartik	7573838018	rajkot,bapasitaram chowk	363510	456
pragnesh@gmail.com	pragnesh	9328915016	rajkot	365210	123

- Product

Pid	Pname	Ptype	Pinfo	Pprice	Pquantity	image
P20240923021125	iphone 14 pro	oppo	128 GB ROM | white |12MP Front Camera | pink	120900	90	...
P20240923020745	iphone 14	iphone	128 GB ROM | 12MP Front Camera | pink	58900	132	...
P20240923020015	iphone 15 pro	iphone	128 GB ROM | pink |12MP Front Camera | pink	85999	576	...
P20240923015824	iphone 15	iphone	128 GB ROM | white |12MP Front Camera | pink	63999	75	...
P20230423084144	MOTOROLA G32	motorola	12 GB RAM | 256 GB ROM | 12MP Front Camera | pink	11999	89	...
P20230423082243	iPhone 13 Pro	iphone	128 GB ROM | black |12MP Front Camera | pink	125999	995	...

- Cart

Productid	Username	Quantity
P20230423082243	mileshchavda@gmail.com	2
P20230423084144	kartikchauhan@gmail.com	1
P20240923015824	darshanchavda@gmail.com	1
P20240923020745	kishanmori@gmail.com	1
P20240923020015	vishalchauhan@gmail.com	1

- Orders

Orderid	Prodid	Quantity	Amount	Shipped
T20240920102558	P20230423084144	1	11999	1
T20241007080648	P20240923015824	1	63999	0
T20240923111722	P20240923021125	1	120900	1
TR10001	P20230423082243	1	125999	1
T20240923111616	P20240923015824	2	127998	1
T20241007080648	P20230423082243	2	251998	0
T20240920102652	P20230423082243	3	377997	1

- Transaction

Transid	Username	Time	Amount
T20240920102558	pragnesh@gmail.com	20-09-2024 10:25	11999
T20240920102652	pragnesh@gmail.com	20-09-2024 10:26	377997
T20240923111616	pragnesh@gmail.com	23-09-2024 11:16	127998
T20240923111722	pragnesh@gmail.com	23-09-2024 11:17	120900
T20241007080648	pragnesh@gmail.com	07-10-2024 20:06	315997
TR10001	guest@gmail.com	23-04-2023 09:26	125999

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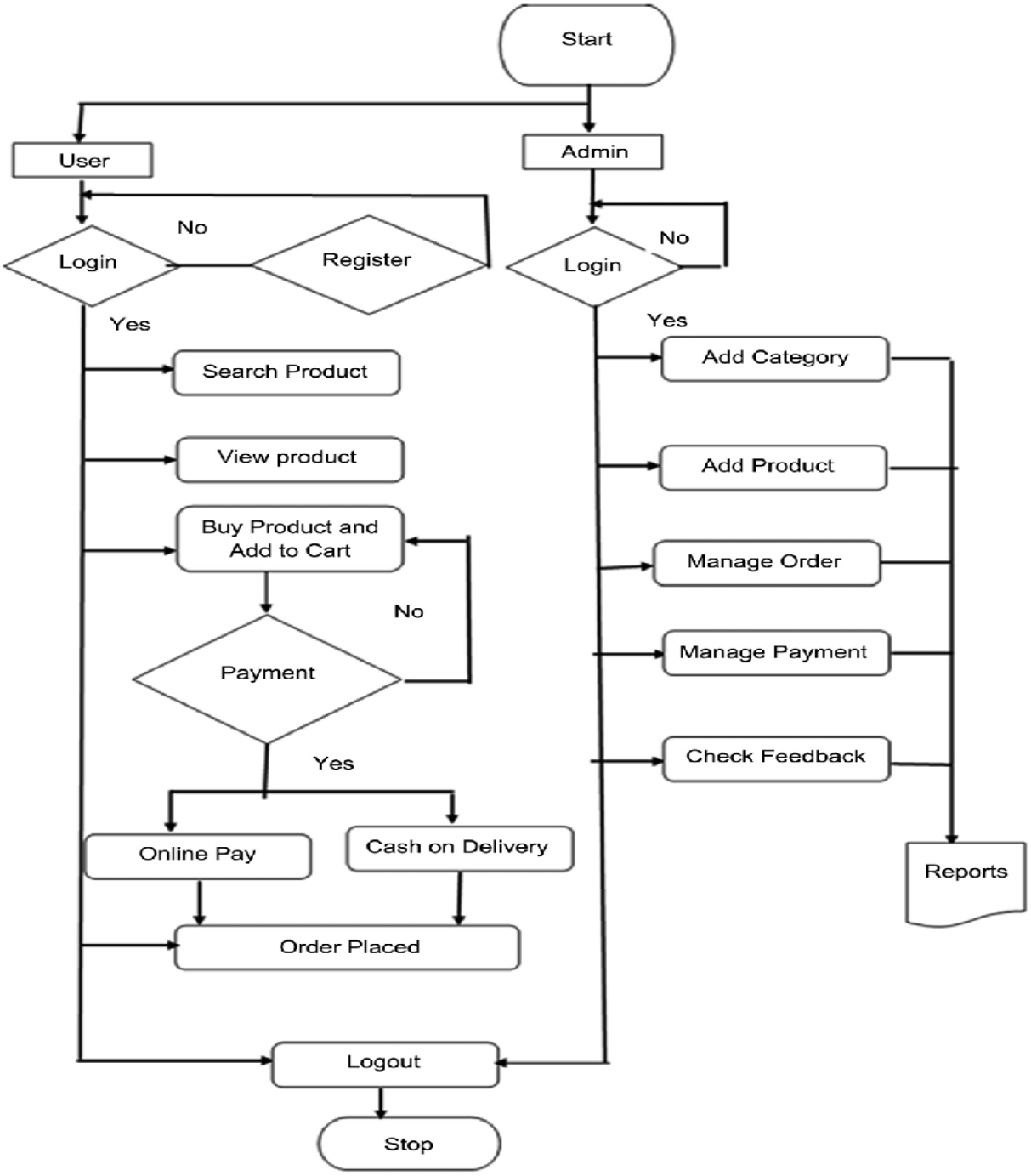
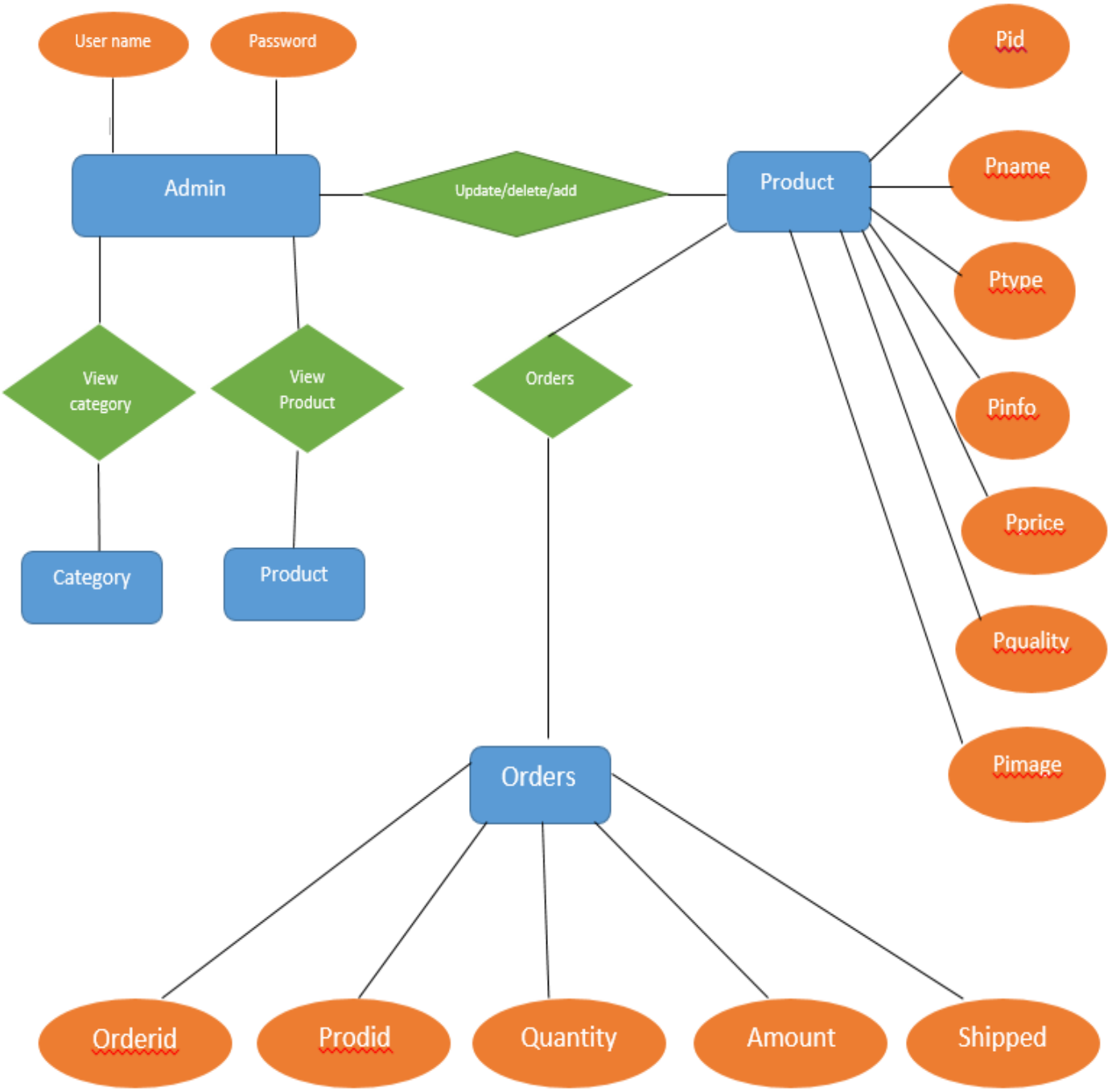
DFD 1 Level Diagram



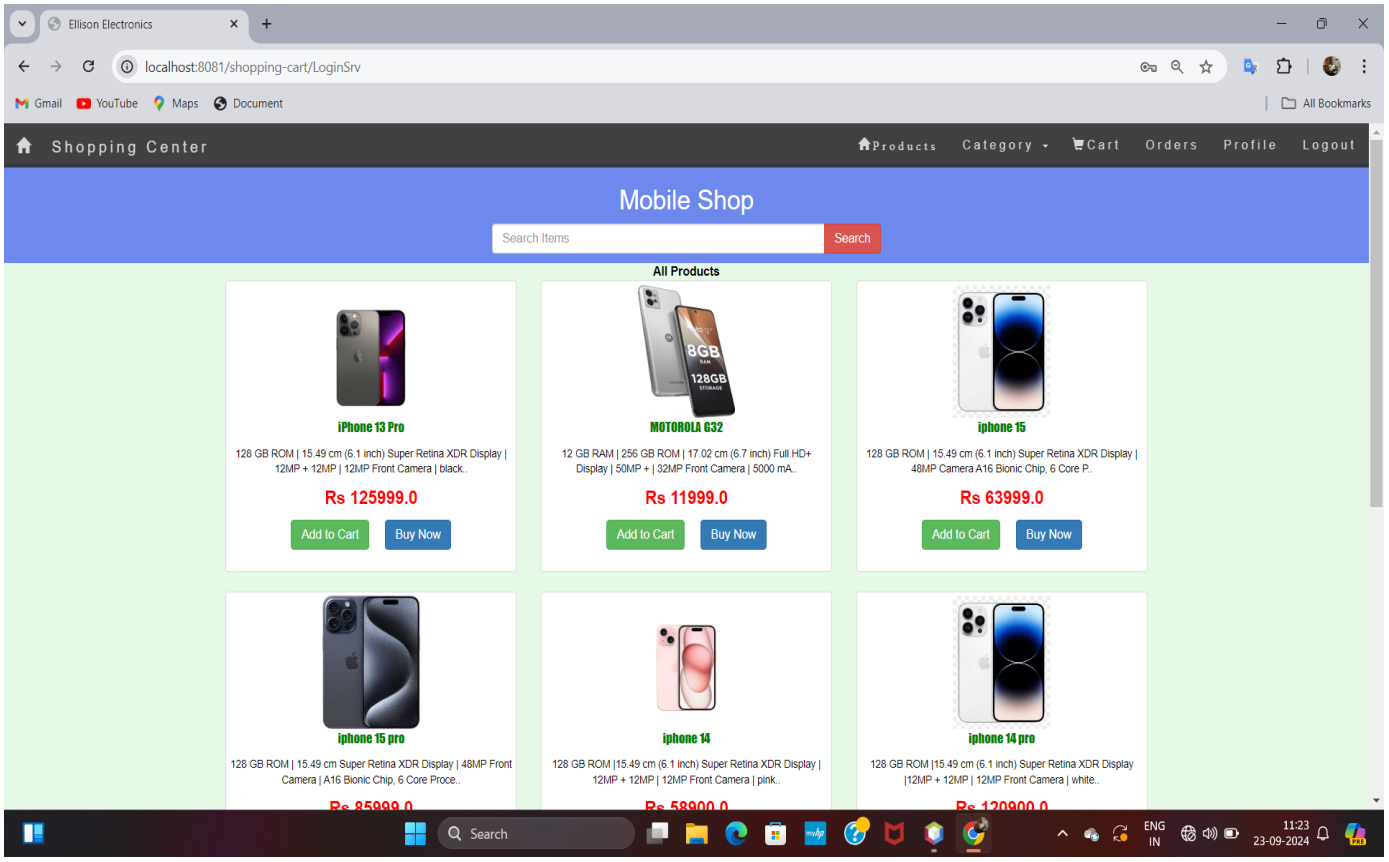
ER (Entity Relation Diagram)



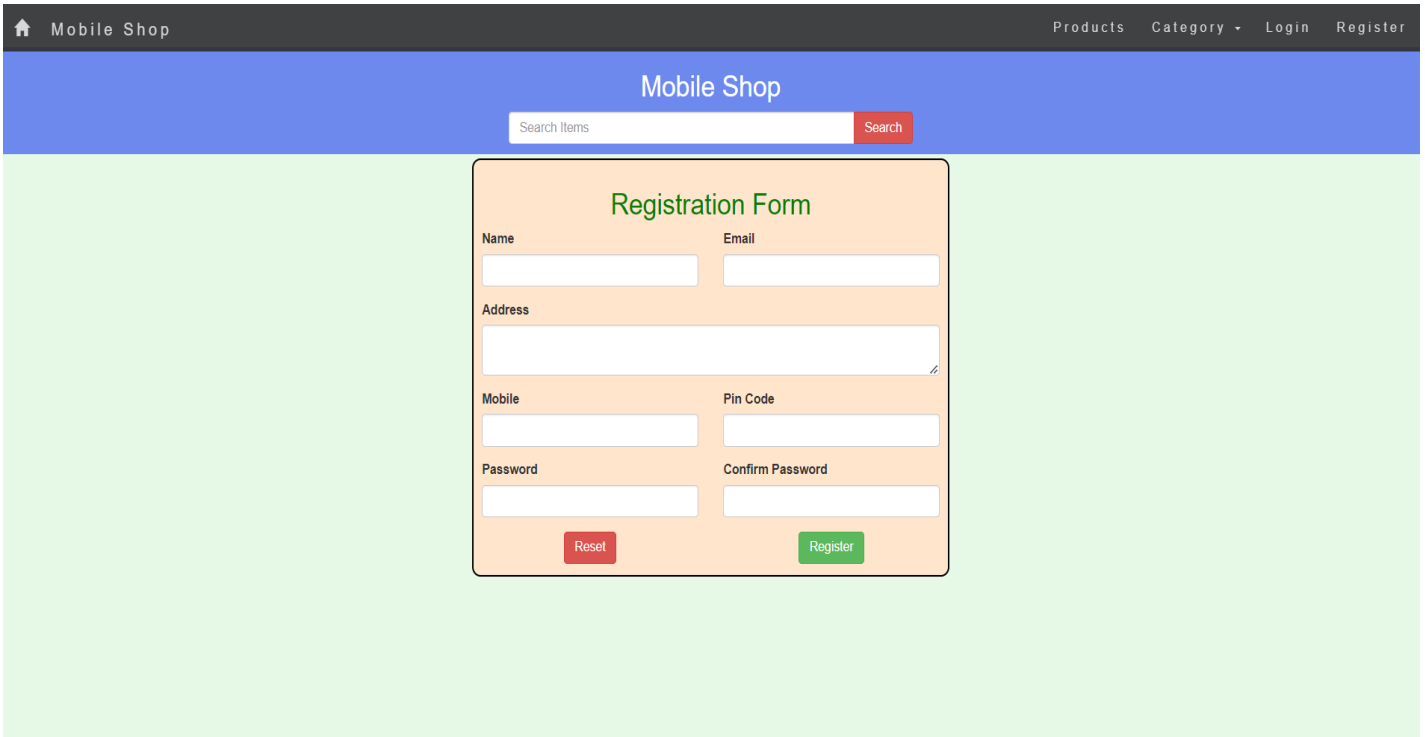
LAYOUT DESIGN

INDEX PAGE

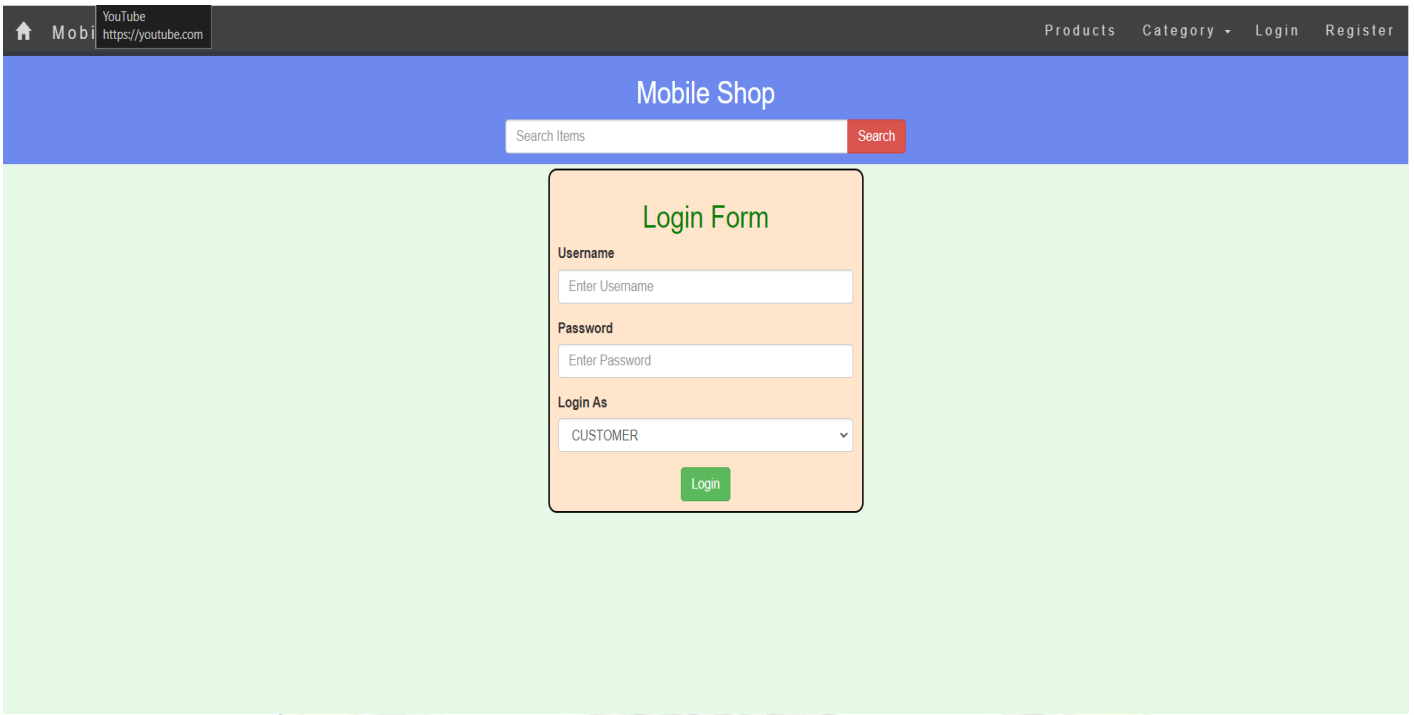
Page Name: - Home Page



Page Name: - Customer Register Page



Page Name: - Customer Login Page



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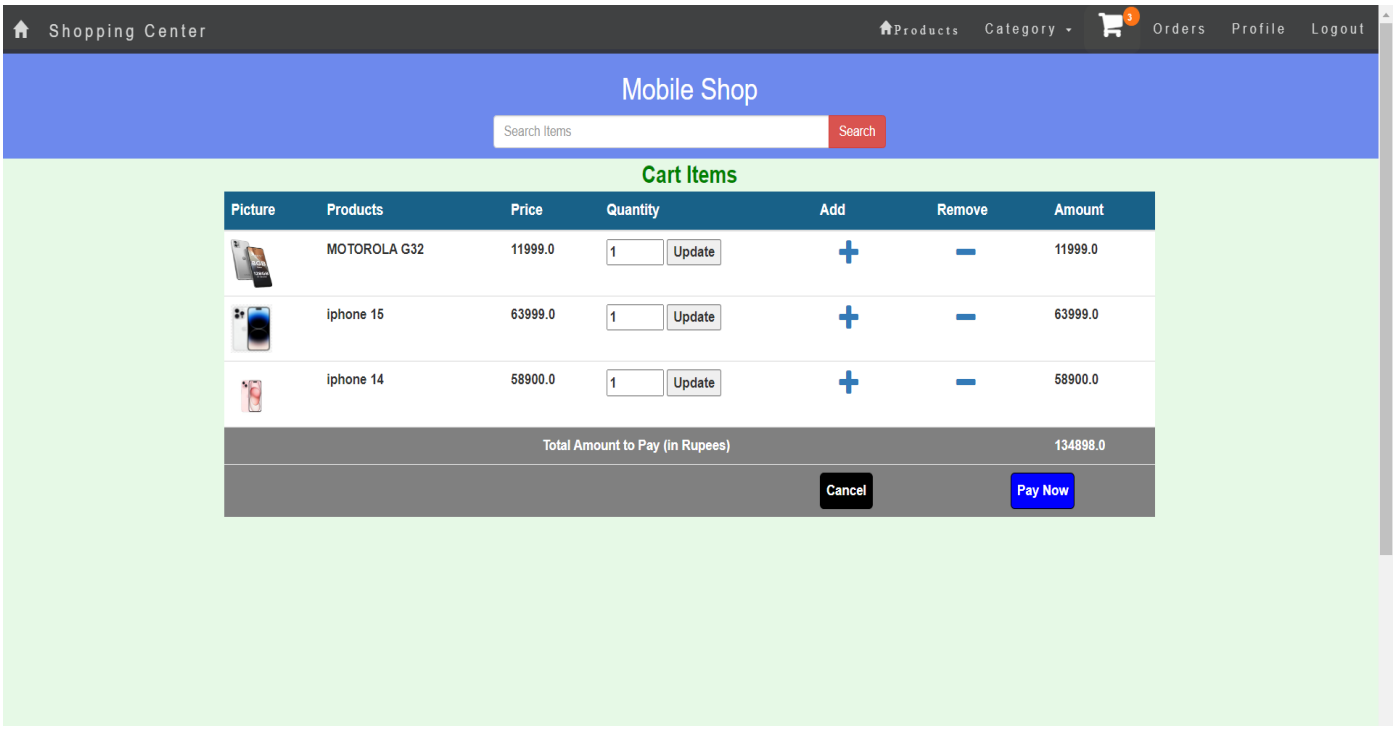
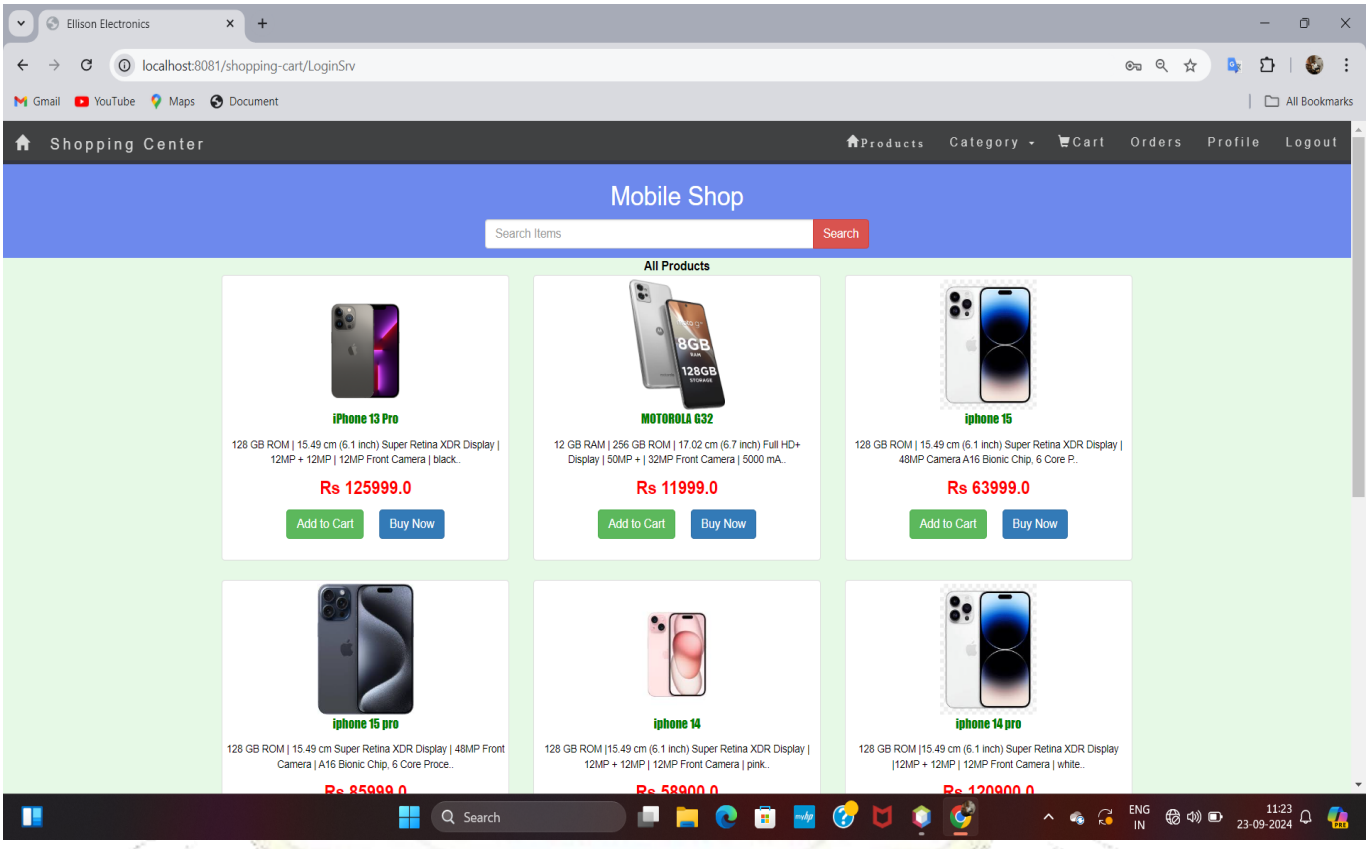
Page Name: - Customer Cart page



Page Name: - Product Page



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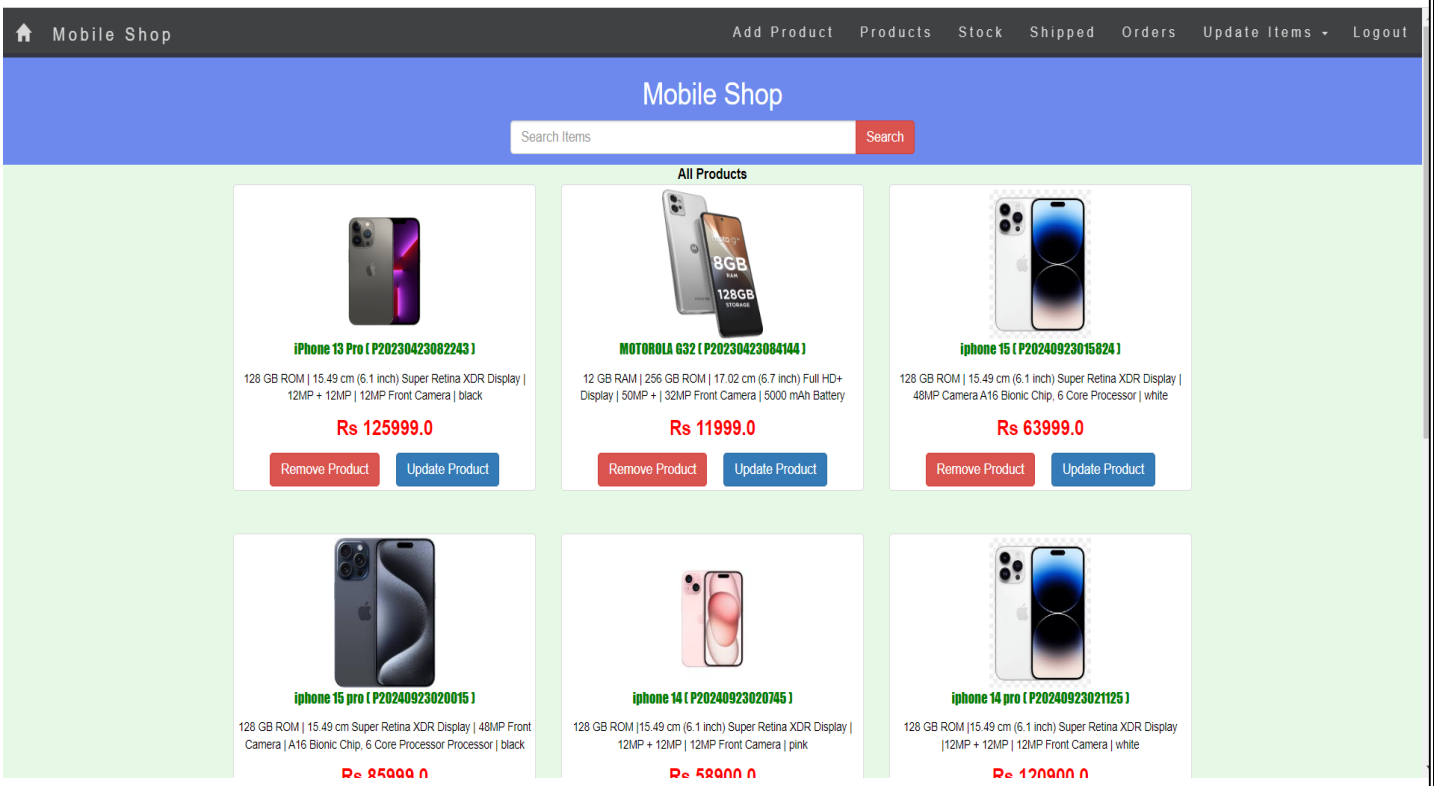
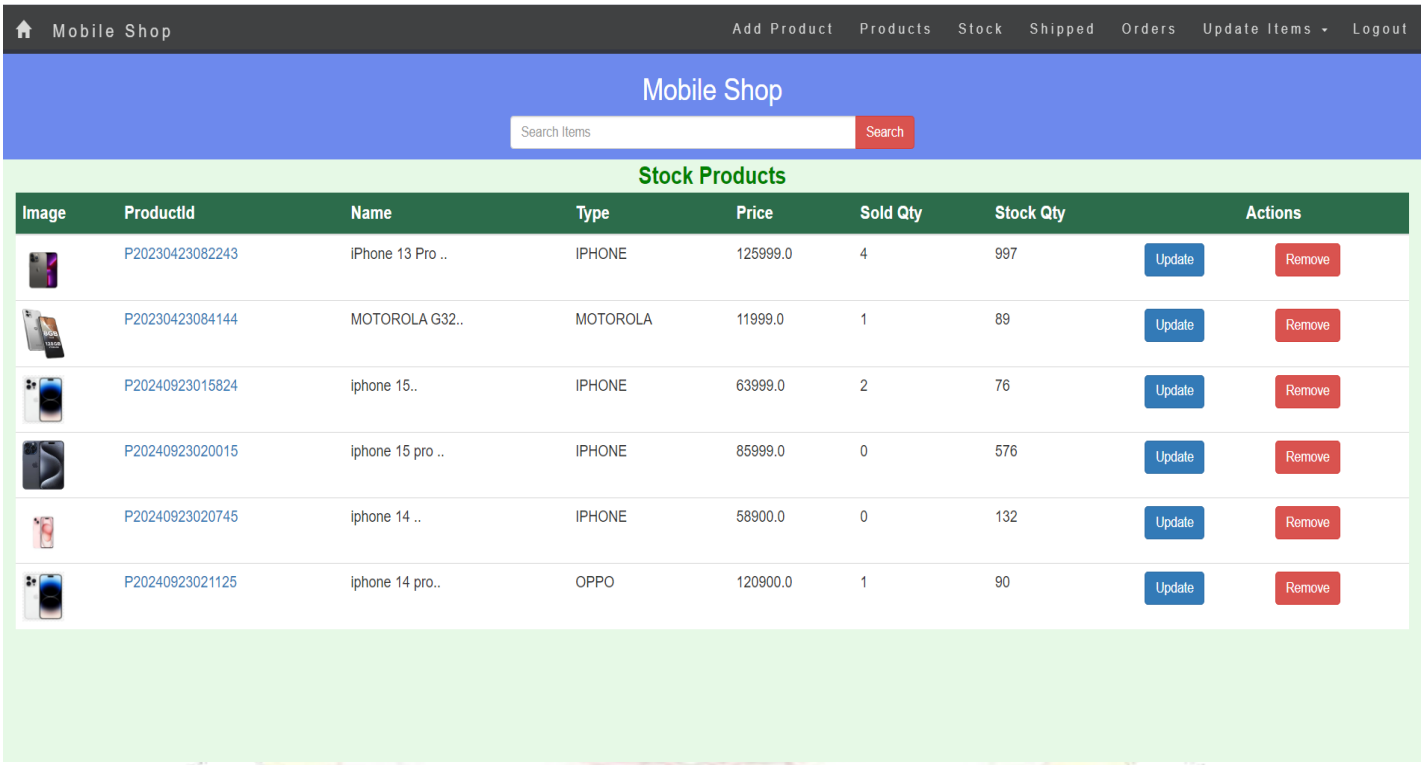
Page Name: - Admin home



Page Name: - Admin View Stock



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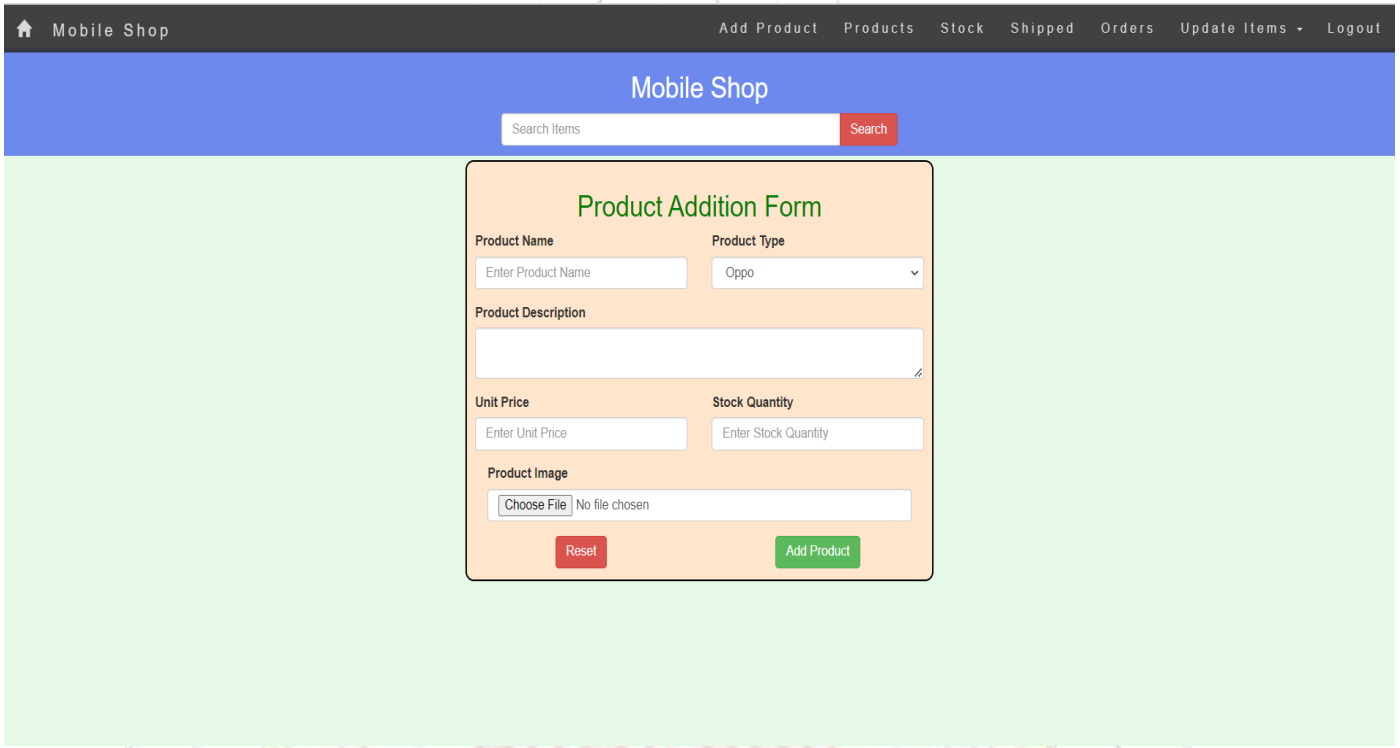
Page Name: - Add Product



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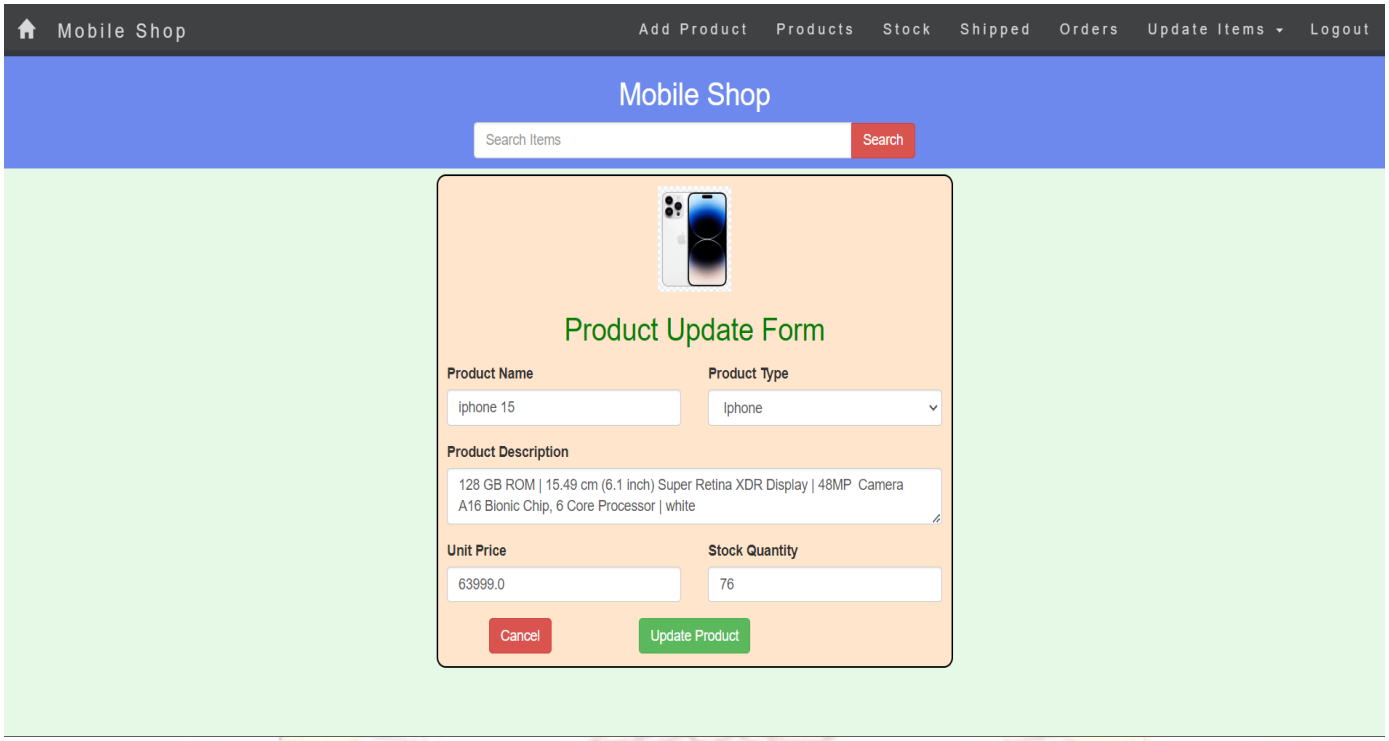
Page Name: - Admin Update product



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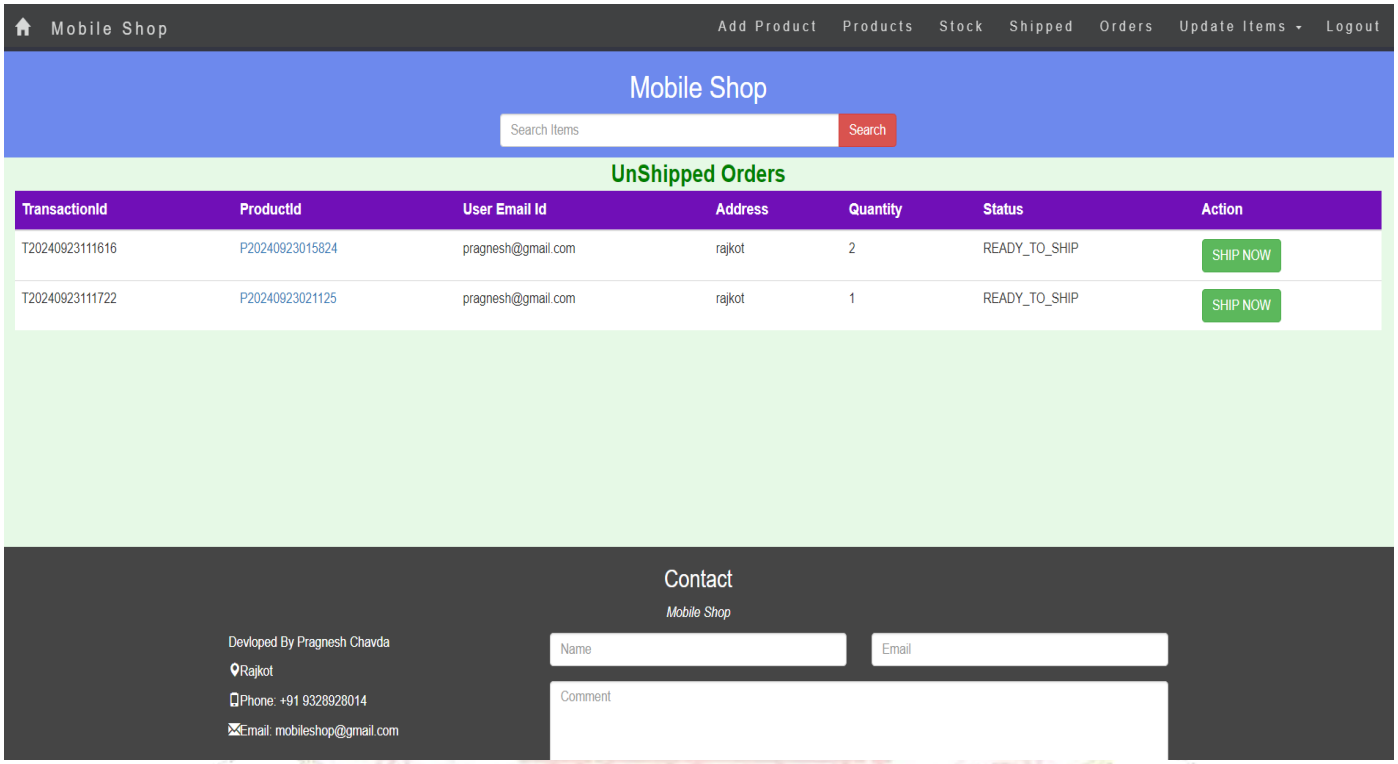
Page Name: - Admin View Pending Order



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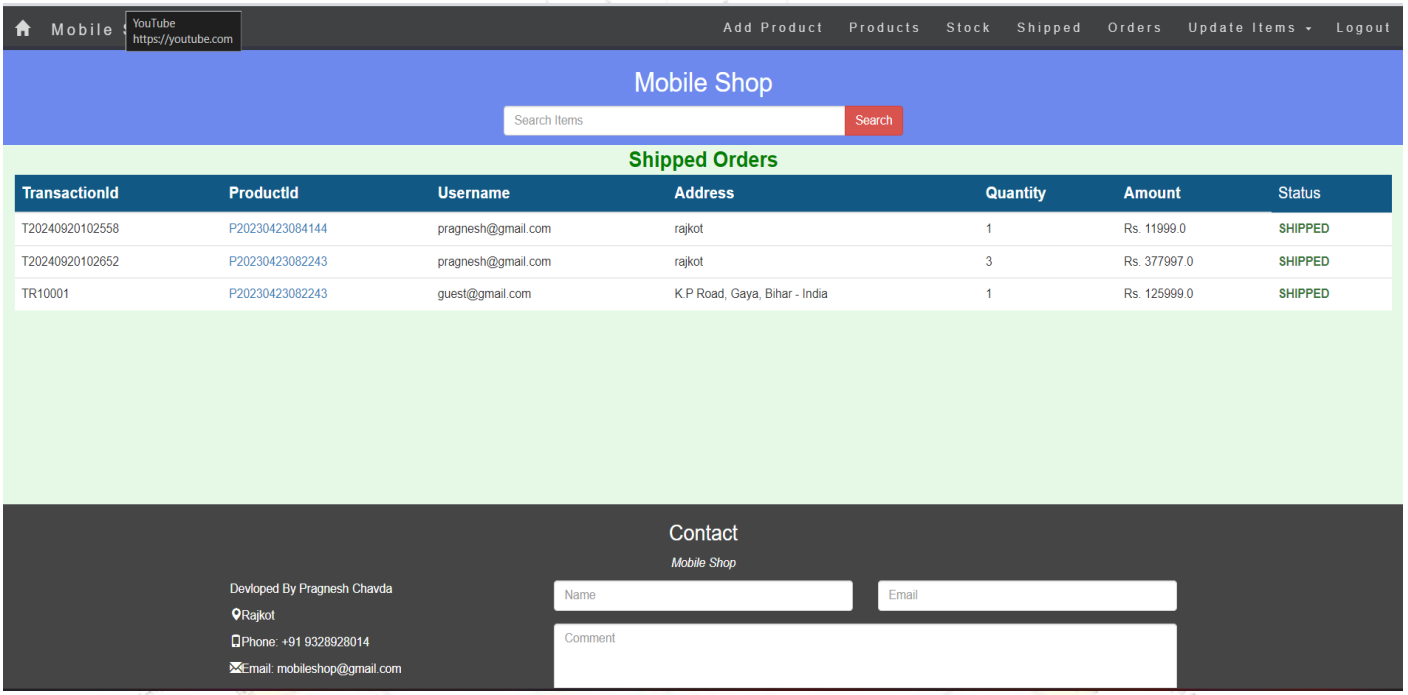
Page Name: - View Delivered Order



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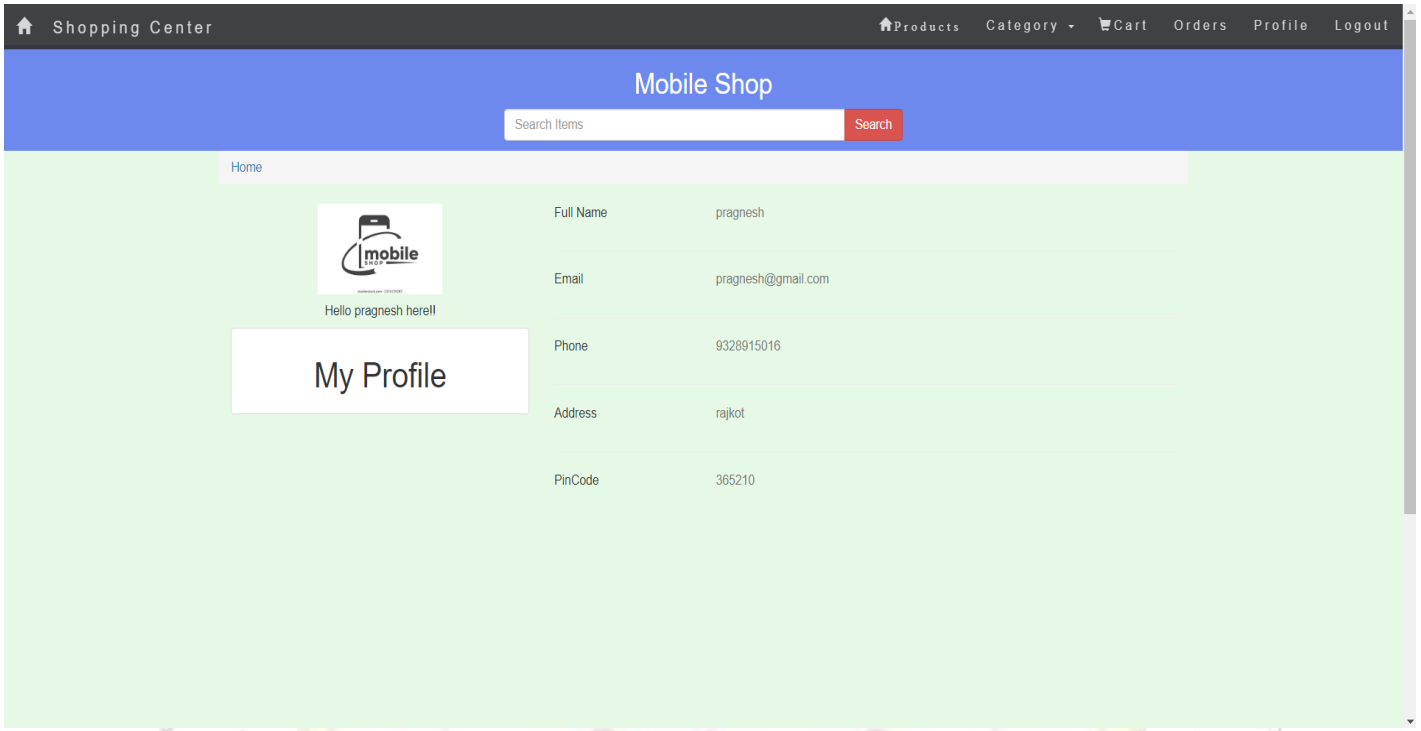
Page Name: - User Profile



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FUTURE REQUIREMENTS OF PROJECT

- Future requirements for a **Mobile Shop Management System** involve enhancing user experience with AI-driven features, expanding integration capabilities, providing advanced tools for shop owners and customers, and ensuring scalability, security, and compliance. By implementing these requirements, the mobile shop management system can remain competitive, adapt to evolving market demands, and support growth in the fast-paced retail sector..

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LIMITATION OF PROJECT

The limitations of a **Mobile Shop Management System** include technical challenges related to scalability and integration, security and privacy concerns, and user experience issues such as accessibility and ease of use. Additionally, functional limitations, financial constraints, and the need for ongoing maintenance can present challenges. The rapidly evolving technological landscape and increasing competition in the retail market also pose risks. Addressing these limitations is crucial for the system's long-term success.

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WEBLOGRAPHY

Resources Used

Google: https://www.google.com/

Stack Overflow: https://stackoverflow.com/

ChatGPT by OpenAI: https://chat.openai.com/

Javatpoint: https://www.javatpoint.com/

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Thank you!