

PROJECT REPORT

Submitted to

DEPARTMENT OF COMPUTER SCIENCE



**VIVEKANAND EDUCATION SOCIETY'S COLLEGE OF ARTS, SCIENCE AND
COMMERCE, SINDHI SOCIETY, CHEMBUR, MUMBAI 400071.**

**E-commerce Website
(Edible Oil store)**

**For Partial Fulfillment for Degree of
Bachelor of Science (Computer Science)
Academic Year (2024-25)**

**COORDINATOR OF DEPARTMENT
Mr. Kamlakar Bhopatkar**

**COLLEGE GUIDE
Ms. Priya Daniel**

**SUBMITTED BY
Rakesh Kailash Suvasiya**



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NAAC Re-Accredited 'A' Grade

CERTIFICATE

**This is to certify that Mr. Rakesh Kailash Suvasiya
of T.Y.B.Sc (Computer Science) affiliated to University of Mumbai has
successfully completed a project work entitled.**

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Ms. Priya Daniel**

**Date:
Examiner:**

College Seal

Acknowledgement:

I have great pleasure in presenting this project entitled “**E-commerce Website (Edible Oil store)**” and I grab this opportunity to convey my immense regards towards all the people who with their invaluable contributions made this project successful.

It gives me great pleasure in presenting this project report. Its justification will never complete if I don't express my vote of thanks to our **V.E.S. College** and Principal **Dr. Anita Kanwar**.

I sincerely thank and express my profound gratitude to our Project Guide **Ms. Priya Daniel** for timely and prestigious guidance required for the project completion at each phase of the project development.

I also owe to my friends who have been a constant source of help to solve the problems that cropped up during the development of the project, positive criticism, suggestions, constant support, encouragement and guidance towards the successful completion of the project.

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PRELIMINARY INVESTIGATION

Introduction

The **E-commerce Website for an Edible Oil Store** is an online platform that allows customers to **browse, select, and purchase edible oil products** conveniently. The system features **secure user authentication, a product catalog, a shopping cart, and order management**.

Admins can **manage inventory, process orders, and track sales**, ensuring efficient business operations. The platform supports **Cash on Delivery (COD)** as the payment method, providing a seamless and user-friendly experience.

This system enhances **traditional oil retailing** by leveraging technology to **streamline ordering, reduce manual work, and improve customer convenience**.

Description of Proposed System

The **E-commerce Website for an Edible Oil Store** is a **web-based platform** designed to simplify the **purchase, management, and sale of edible oil products**. The proposed system **eliminates the limitations of traditional sales methods** by providing an efficient, **user-friendly digital marketplace** where customers can browse products, place orders, and track their purchases, while admins can manage inventory and process sales efficiently.

System Overview

The **E-commerce Website for an Edible Oil Store** is a **web-based platform** that enables customers to browse and purchase edible oils online while allowing administrators to manage products, orders, and inventory efficiently. The system is designed to provide a **smooth user experience**, ensuring secure transactions and seamless order processing.

The system operates in a **multi-user environment**, where:

- **Customers can register, browse products, add items to their cart, place orders, and track purchases.**
- **Admins have control over inventory, orders, and user management, ensuring efficient business operations.**
- **The system supports Cash on Delivery (COD) as the payment method and provides order tracking features.**

System Modules

1. User Management Module

For Customers:

- Register and log in securely.
- Update personal information and manage account details.

For Admins:

- Manage user accounts (create, edit, delete).
- View customer order history and feedback.

2. Product Management Module

- Admins can **add, update, delete, and categorize edible oil products.**
- Includes **detailed product descriptions, images, pricing, and stock levels.**
- Products are grouped based on **oil type (e.g., Mustard Oil, Sunflower Oil, Coconut Oil) and packaging size.**

3. Shopping Cart & Checkout Module

- Customers can **add products to the cart** and adjust quantities.
- The system **calculates the total price** before checkout.
- Customers proceed with **Cash on Delivery (COD)** as the payment method.

4. Order Management Module

- Customers can **place, view, and track orders.**
- Admins can **process orders, update status (Pending, Processing, Delivered, Canceled).**
- Customers receive **order confirmation notifications** after successful placement.

5. Inventory Management Module

- Admins can **track stock levels and receive alerts for low inventory.**
- Automatic stock updates when orders are placed.
- Helps prevent **over-selling and stock shortages.**

6. Payment Module

- Supports **Cash on Delivery (COD)** as the only payment method.
- Order is confirmed upon successful checkout.

7. Feedback & Customer Support Module

- Customers can **submit product reviews and feedback.**
- Admins can **respond to queries and address customer concerns.**

Advantage of Proposed System

The E-commerce Website for an Edible Oil Store enhances efficiency, convenience, and business growth by **automating product management, order processing, and customer interactions.**

Key Benefits:

- **Convenience & Accessibility** – 24/7 online shopping from anywhere.
- **Efficient Product & Order Management** – Automated stock updates and real-time order tracking.
- **Secure User Authentication** – Restricted admin access and customer login security.
- **Cash on Delivery (COD) Support** – Simple and trusted payment method.
- **Sales Reports & Business Insights** – Helps in decision-making and future growth.
- **Customer Feedback & Support** – Enhances service quality through reviews and inquiries.
- **Scalability** – The system can grow with business expansion.

The proposed system **modernizes the edible oil business, reduces manual effort, and improves customer satisfaction, making it a cost-effective and scalable e-commerce solution.**

Technologies Used

1. **PHP:** Server-side scripting language used for handling the backend logic and server communication.
2. **MySQL:** Relational database management system for storing and managing user, project, and task data
3. **HTML/CSS:** Front-end technologies for structuring and styling the web pages, ensuring a user-friendly interface.
4. **JavaScript:** Used for enhancing user interactions and providing dynamic content on the web pages.
5. **XAMPP:** A local server environment used for development and testing purposes.
6. **Apache:** Web server used to host and serve the application.

SYSTEM ANALYSIS

Use Case Diagram

A use case diagram illustrates the operations a system performs, showing use cases, actors, and their relationships. Use cases represent sequences of actions for an actor, while actors represent external users interacting with the system.

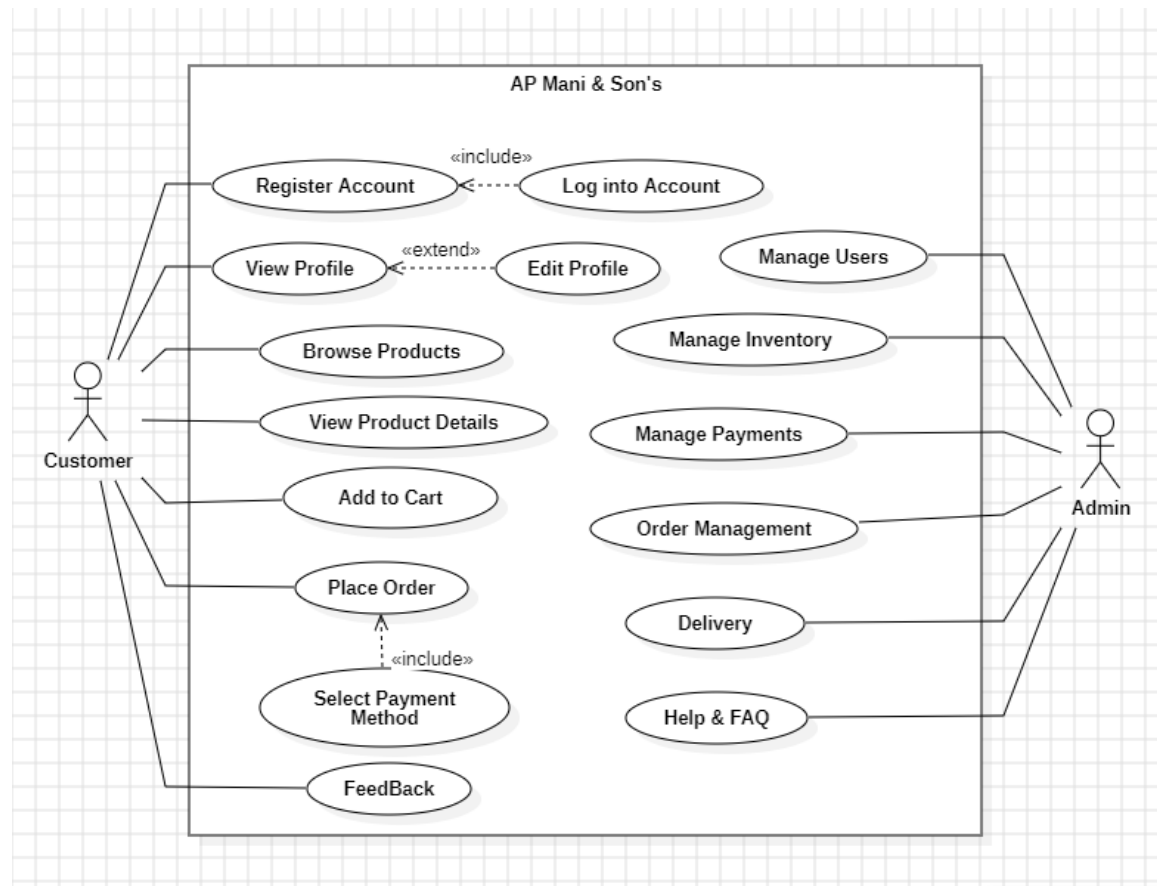
Elements of Use Case Diagram:

- **Actors:** Entities (users) that perform roles in the system, interacting with use cases. Shown as stick figures, they represent external users influencing the system's functionality.
- **Use Cases:** Visual representations of distinct business functions, shown as ellipses. They represent discrete processes and can be identified as clear business tasks.
- **System Boundary:** Defines the scope of the system and limits its functionality. Shown as a rectangle encompassing all use cases.

Relationships:

- **Extends:** One use case extends another under certain conditions (dashed arrow with "«extend»").
- **Includes:** A use case includes another, sharing behavior between them (dashed arrow with "«include»").

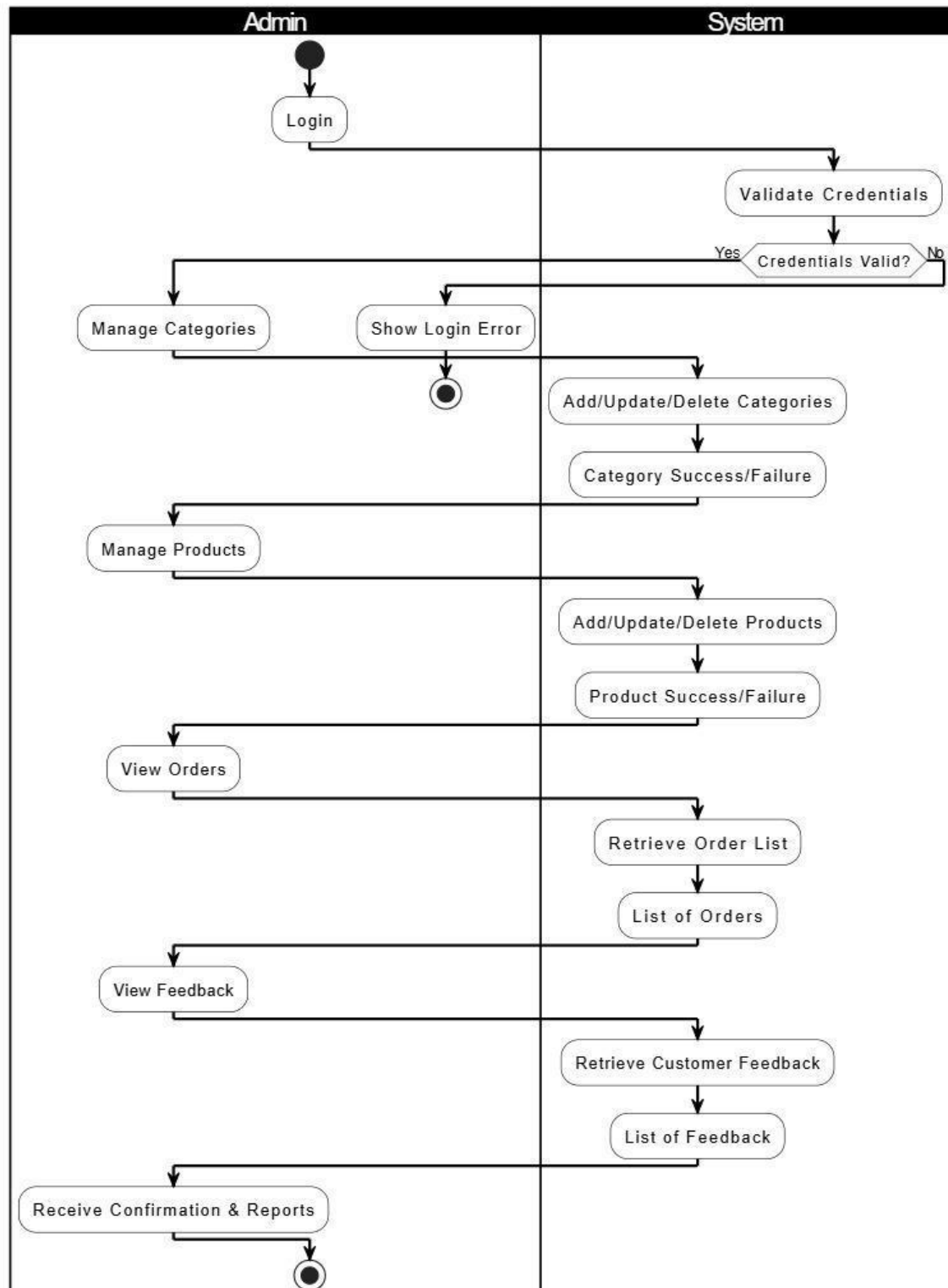
Use-Case Diagram



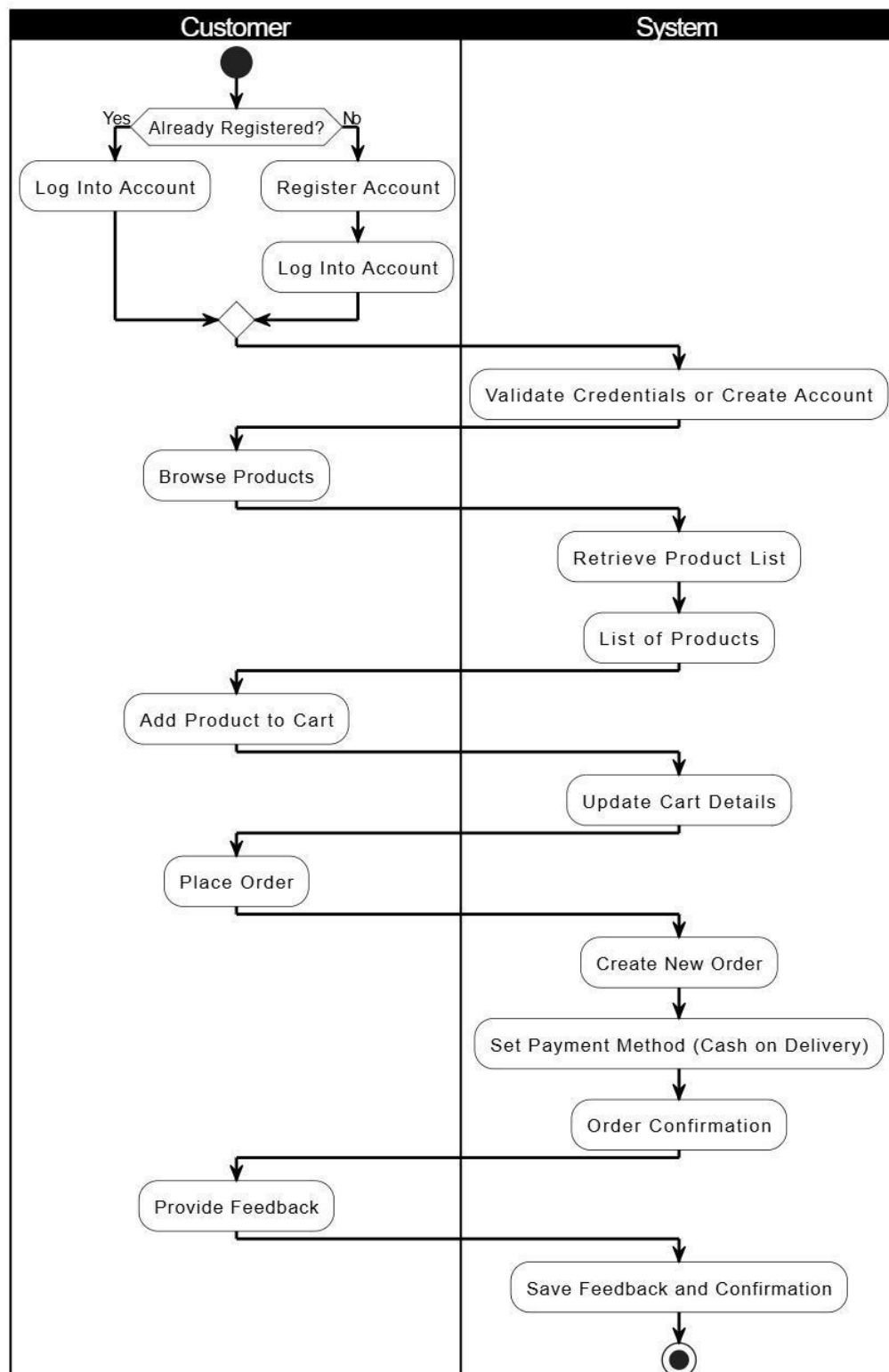
Activity Diagram

It describes the flow of activities within the system, such as the process of product ordering, payment processing, and order delivery. It helps in understanding the workflow of the system step-by-step.

Admin:



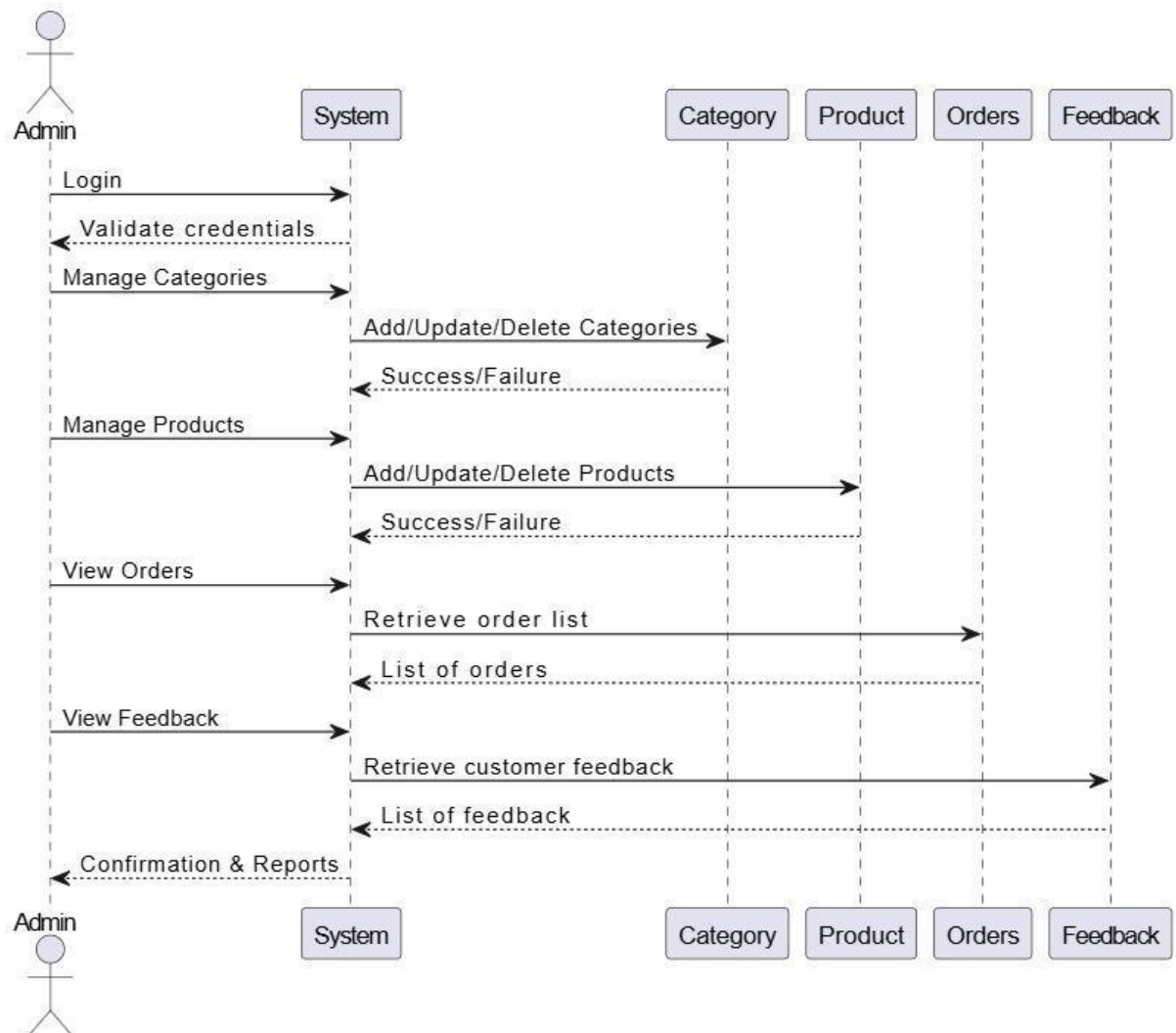
Customer:



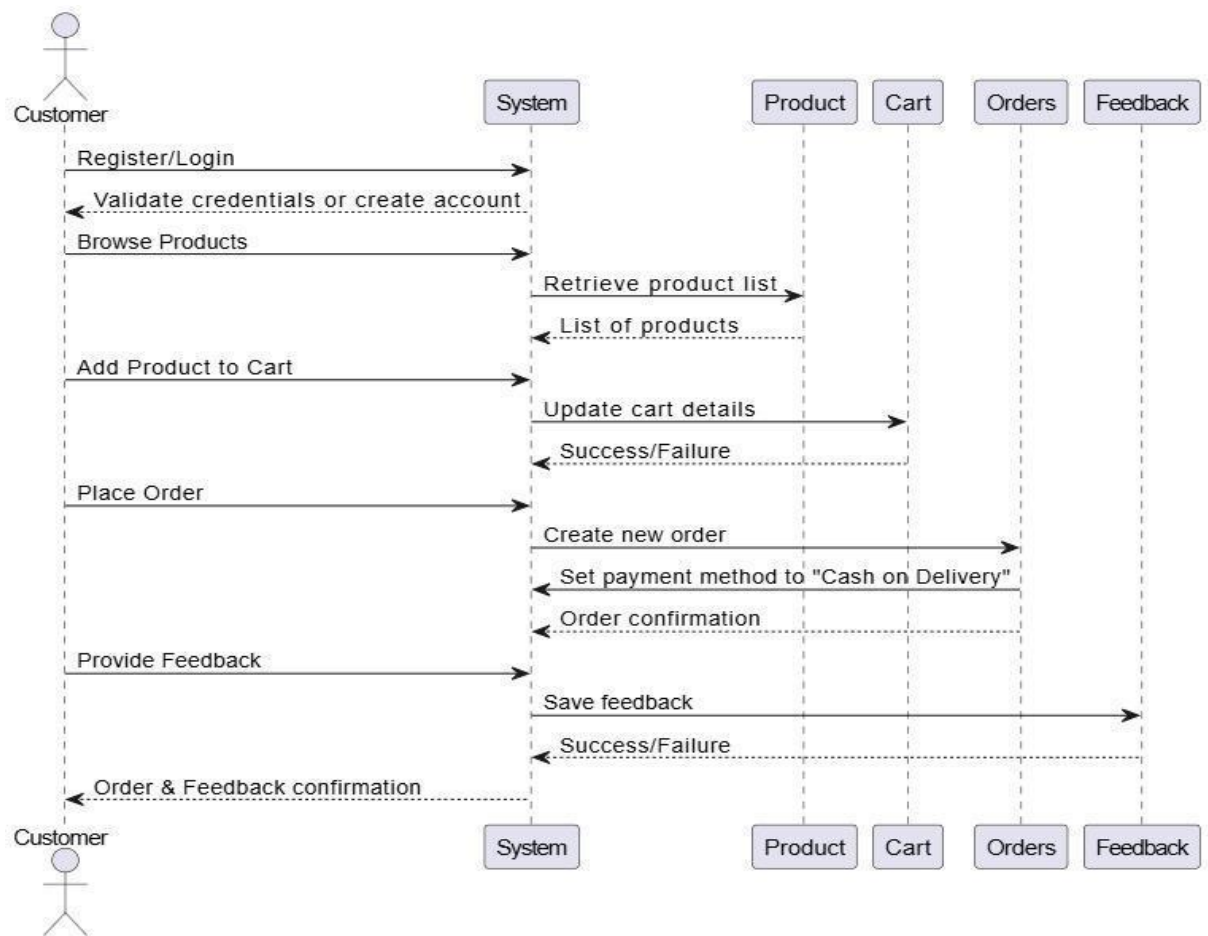
Sequence Diagram

It shows the sequence of interactions between different components, such as how a customer places an order, the system verifies payment, and the admin manages the inventory.

Admin:

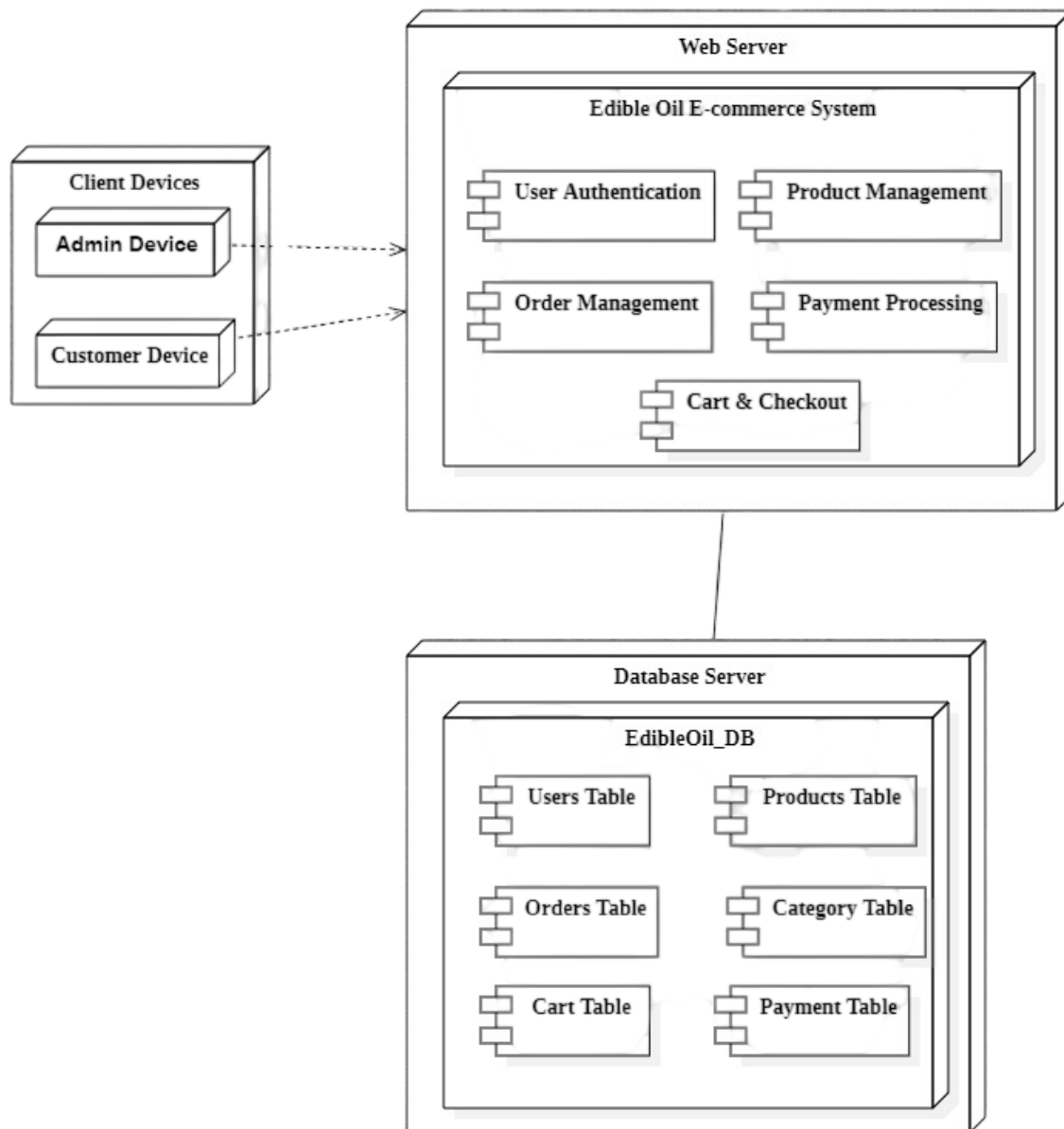


Customer:



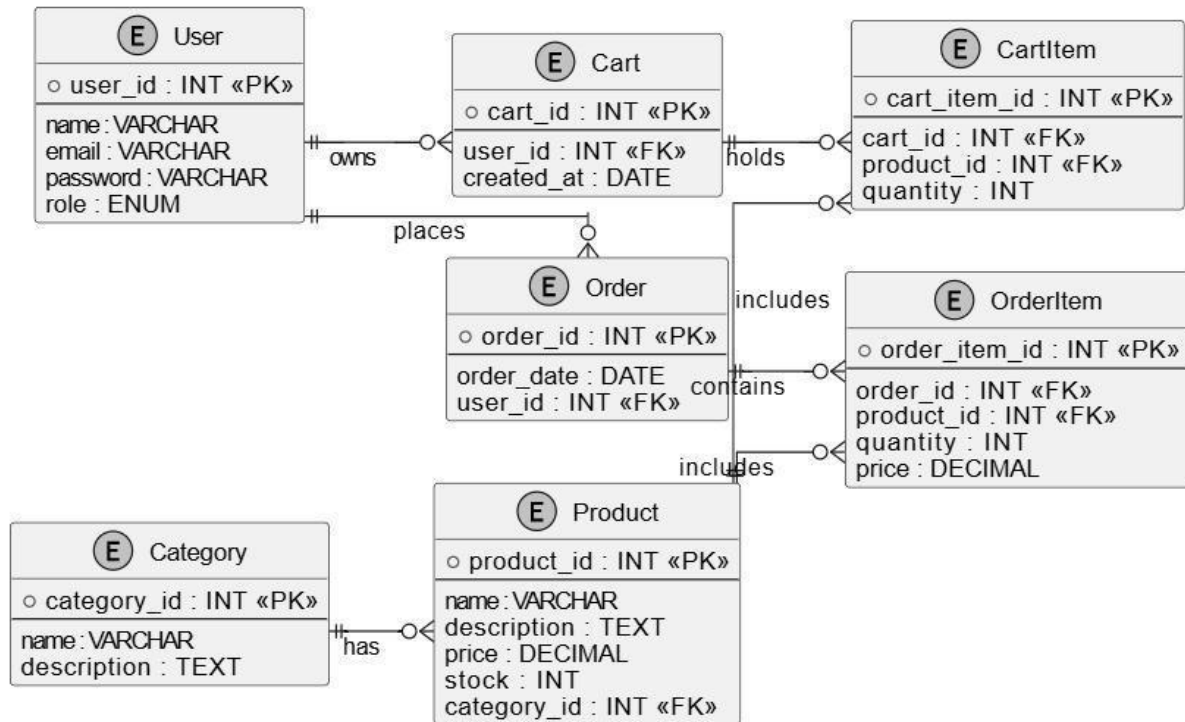
Deployment Diagram

It shows the sequence of interactions between different components, such as how a customer places an order, the system verifies payment, and the admin manages the inventory.



Database Diagram

It shows the sequence of interactions between different components, such as how a customer places an order, the system verifies payment, and the admin manages the inventory.



Test Cases for E-commerce Website (Edible Oil Store)

Customer Test Cases:

Test Case ID	Module	Form	Test Conditions	Steps	Input Test Data	Expected Output	Actual Output	Status
TC01	Authentication	Login/Register	Verify user can log in or register	1. Open login page 2. Enter credentials 3. Click Login	Email: test@example.com Password: Test@123	User is logged in successfully	Logged in successfully	Pass
TC02	Authentication	Login/Register	Verify error on invalid credentials	1. Open login page 2. Enter invalid credentials 3. Click Login	Email: wrong@example.com Password: Wrong@123	Error message: 'Invalid credentials'	Error displayed	Pass
TC03	Products	Browse Products	Verify products are displayed	1. Navigate to Products page	-	Product list is displayed	Product list shown	Pass
TC04	Cart	Add to Cart	Verify adding product to cart	1. Select a product 2. Click 'Add to Cart'	Product: Sunflower Oil 1L	Product added to cart successfully	Product added	Pass
TC05	Cart	View Cart	Verify cart items are displayed correctly	1. Open cart page	-	Items in cart are displayed	Cart items shown	Pass
TC06	Orders	Place Order	Verify order placement	1. Open cart 2. Click 'Place Order'	Payment: Cash on Delivery	Order placed successfully	Order confirmed	Pass
TC07	Feedback	Provide Feedback	Verify feedback submission	1. Navigate to feedback form 2. Submit feedback	Feedback: 'Good Service!'	Feedback saved successfully	Feedback recorded	Pass

Admin Test Cases:

Test Case ID	Module	Form	Test Conditions	Steps	Input Test Data	Expected Output	Actual Output	Status
TC01	Authentication	Login	Verify admin can log in successfully	1. Open admin login page 2. Enter credentials 3. Click Login	Email: admin@store.com Password: Admin@123	Admin is logged in successfully	Logged in successfully	Pass
TC02	Category	Manage Categories	Verify admin can add/update/delete categories	1. Navigate to category management 2. Perform CRUD operations	Category: 'Organic Oils'	Category operation successful	Category updated	Pass
TC03	Products	Manage Products	Verify admin can add/update/delete products	1. Navigate to product management 2. Add a product	Product: 'Coconut Oil' Price: ₹250	Product added successfully	Product listed	Pass
TC04	Orders	View Orders	Verify admin can view orders	1. Navigate to order management	-	Orders list displayed	Orders retrieved	Pass
TC05	Feedback	View Feedback	Verify admin can view customer feedback	1. Navigate to feedback section	-	Feedback list displayed	Feedback retrieved	Pass

Screenshots

Customer: Registration

✕

Create an account

☐ Male ☐ Female

Register

Login

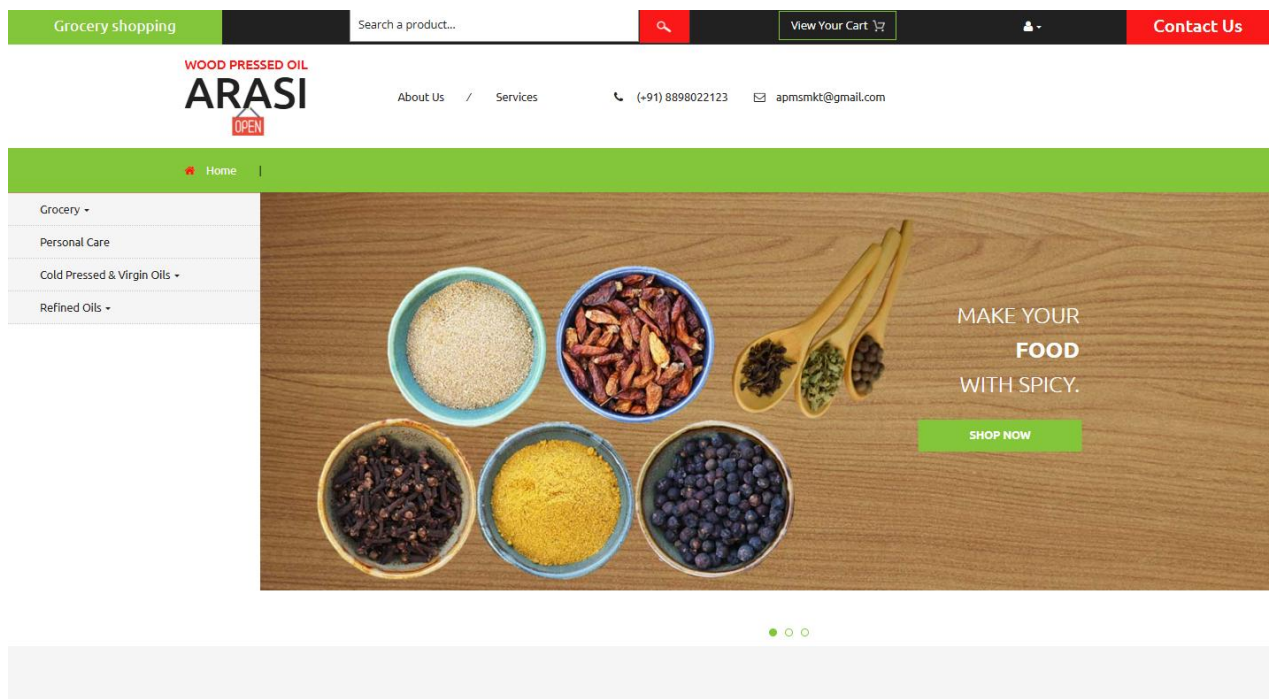
✕

Login to your account

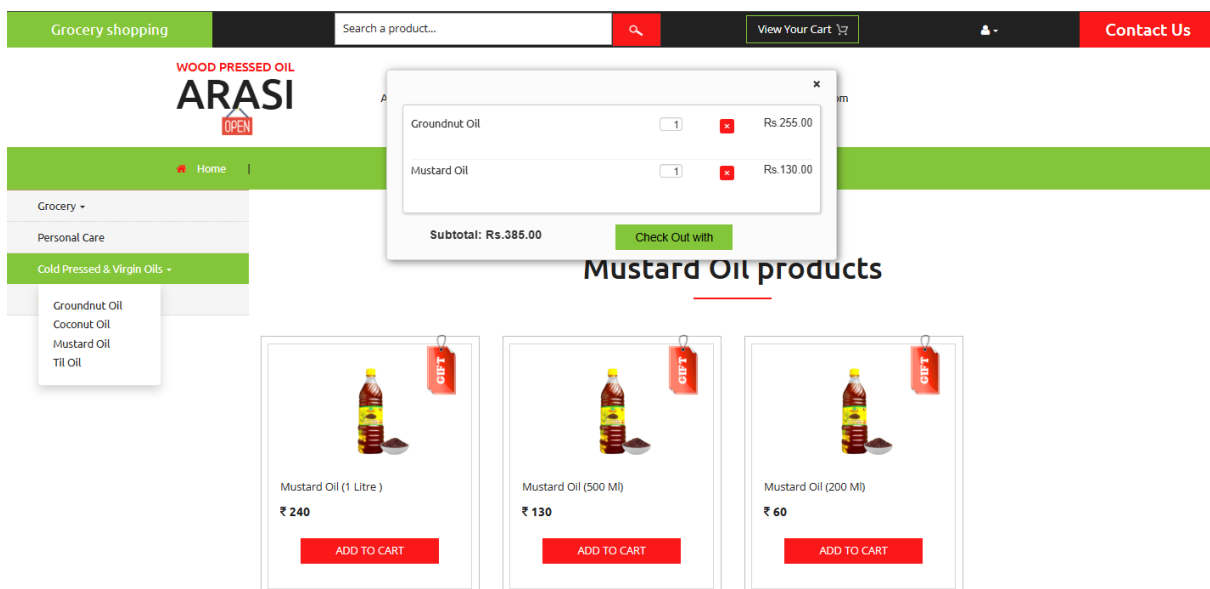
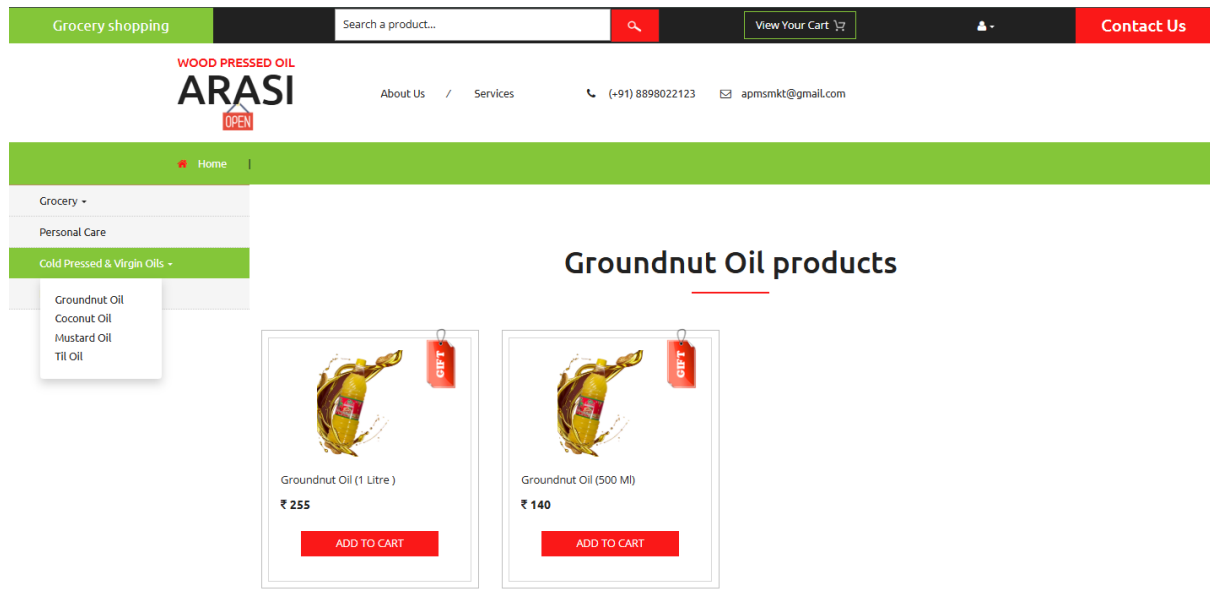
Login

Forgot your password?

Computer view:



Add to cart and view cart



Payment Page

Payment

Your order has been placed

Cash on delivery (COD)

FOR NOW, We only support Cash on Delivery.

Admin Panel:

Login



Welcome Back Admin

Enter your username or email

Enter your password

☐ Remember me

[Forgot your password?](#)

Login

Dashboard

The dashboard features a blue sidebar on the left with the 'ADMIN' header and a 'Dashboard' link. Below it, a list of interface elements includes Product, Category, Orders, Payment, Feedbacks, and Users. The main content area, titled 'Dashboard', displays six summary cards: 'TOTAL USERS' (3), 'TOTAL PRODUCTS' (31), 'TOTAL CATEGORIES' (15), 'FEEDBACK' (0), 'TOTAL ORDERS' (1), and 'TOTAL PAYMENTS' (1). Each card includes an icon representing the data. The top right corner shows a user profile 'Rakesh' and notification icons. A copyright notice 'Copyright © AP Mani & Son's' is at the bottom.

Add Product

The 'Add Product' form is located in the main content area of the admin interface. It includes input fields for 'Name' (Product Name), 'Price' (Product Price), 'Discount' (0), and 'Weight' (Product Weight). There is a file upload section for 'Image' with a 'Choose File' button and a 'No file chosen' message. A 'Select Category' dropdown menu is set to 'Grocery'. A 'Save Product' button is at the bottom. The sidebar on the left is identical to the dashboard view.

Manage Category

The 'Manage Category' section displays a table of all categories (15). The table has columns for CID, Name, Parent Category, and Action. The 'Action' column contains 'Edit' and 'Remove' buttons. A 'Create New' button is in the top right corner. The sidebar on the left shows the 'Product' menu item selected.

CID	Name	Parent Category	Action
22	Refined Sesame Oil	Refined Oils	Edit Remove
21	Refined Groundnut Oil	Refined Oils	Edit Remove
20	Til Oil	Cold Pressed & Virgin Oils	Edit Remove
18	Mustard Oil	Cold Pressed & Virgin Oils	Edit Remove
17	Coconut Oil	Cold Pressed & Virgin Oils	Edit Remove
14	Groundnut Oil	Cold Pressed & Virgin Oils	Edit Remove
13	Decorations	N/A	Edit Remove

View Orders

Dashboard

INTERFACE

Product >

Category >

Orders

Payment



Feedbacks

Users

<

All Order Items (2)

Order ID: 48
User: Mukesh Nirban
Total amount: ₹ 385

Item_ID	Product Image	Product Name	Quantity	Amount
47		Groundnut Oil	1	255
48		Mustard Oil	1	130

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Payment info

All Payments (1)				
Pay ID	Order ID	Total Amount	Payment Type	User
46	48	385	COD	Mukesh Nirban

Bibliography & References

Technology Stack References:

- PHP Official Documentation: www.php.net
- MySQL Database Documentation: dev.mysql.com

Web Development Tutorials and Guides:

- W3Schools: www.w3schools.com
- Geeks for Geeks: www.geeksforgeeks.org
- Stack Overflow Community: stackoverflow.com

YouTube Channel References (For Practical Implementation):

- Code With Harry: youtube.com/@CodeWithHarry
- Coding Artist: youtube.com/@CodingArtist
- Thapa Technical: youtube.com/@ThapaTechnical

