

FOOD EXPRESS APP

DOCUMENTATION

By

TEAM – 1

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ABSTRACT

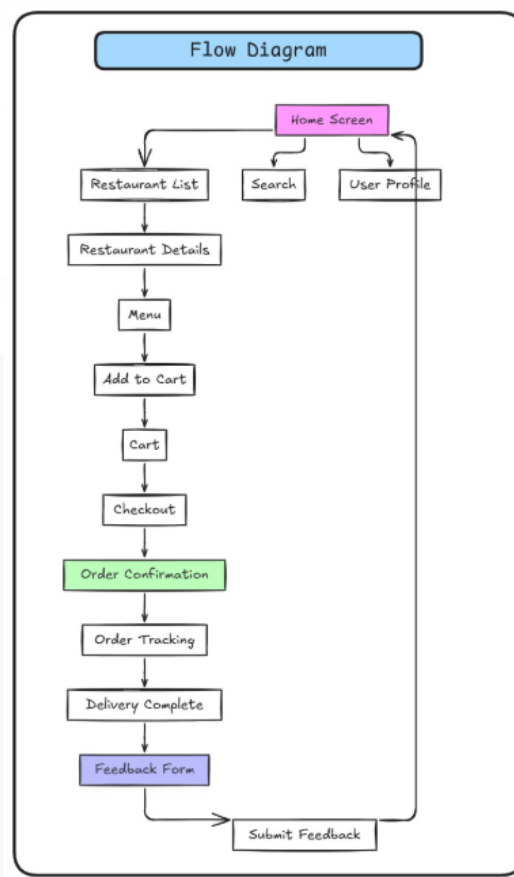
The “Food Express” website aims to revolutionize the online food ordering experience by addressing common inefficiencies in existing systems. This project provides a user-centric platform that simplifies menu browsing, order placement, and feedback management. Utilizing technologies such as Spring Boot for backend functionality and Thymeleaf for dynamic content rendering, the system ensures a seamless and responsive user interface. Core features include user authentication, real-time menu updates, and interactive order management tools for restaurant owners. The platform is designed for scalability, enabling future enhancements such as payment gateway integration and AI-driven recommendations, thereby setting a benchmark for next-generation food delivery solutions.

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Introduction

In today's fast-paced world, online food delivery has become an essential service, catering to the convenience-driven lifestyles of modern consumers. The demand for efficient and user-friendly platforms that connect restaurants with customers is higher than ever. The **Food Express** website is designed to address this demand by providing a seamless online platform where users can browse menus, place orders, and manage their food delivery experiences effortlessly. This project not only simplifies the customer's ordering process but also empowers restaurant owners with the tools to manage their operations effectively.



The core objective of the Food Express platform is to create an intuitive and dynamic interface that enhances user satisfaction while ensuring operational efficiency for restaurants. Customers can easily register, log in, and explore a restaurant's offerings through a visually appealing and responsive design. The system also enables restaurant owners to update their menus in real-time, manage incoming orders, and respond to customer feedback. By addressing the needs of both customers and restaurants, the platform establishes itself as a comprehensive solution for online food delivery.

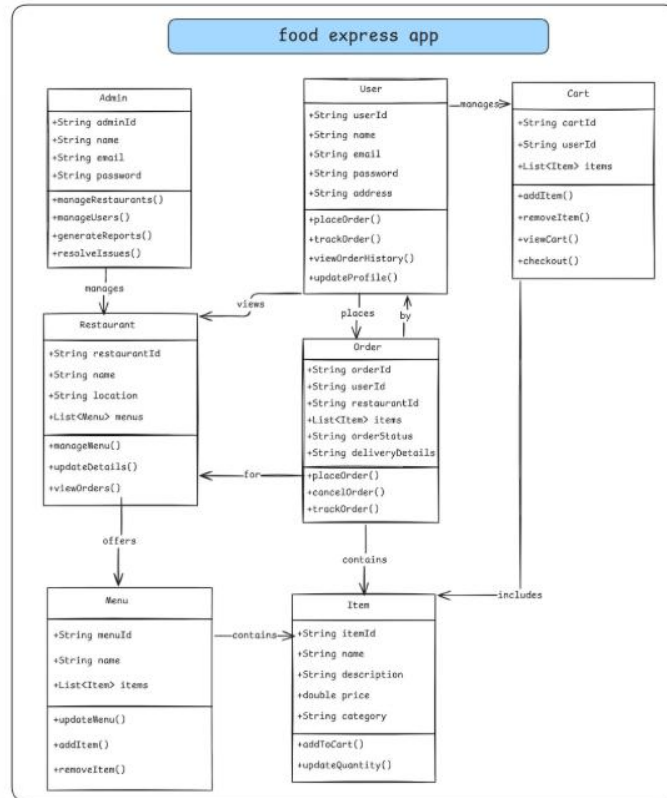
To achieve this, the project utilizes cutting-edge technologies such as **Spring Boot** for backend services and **Thymeleaf** for front-end development. The backend ensures robust functionality, including database interactions and secure user authentication, while the front-end delivers a responsive and visually engaging user interface. The platform is designed with scalability in mind, allowing for future enhancements such as payment integration, real-time order tracking, and AI-driven recommendations. This adaptability ensures that the Food Express website remains relevant and competitive in the evolving online food delivery landscape.

System Analysis and Design

The system is designed to support three main actors: Customers, Restaurant Owners, and Administrators. The use case diagram illustrates the interactions among these roles with the platform.

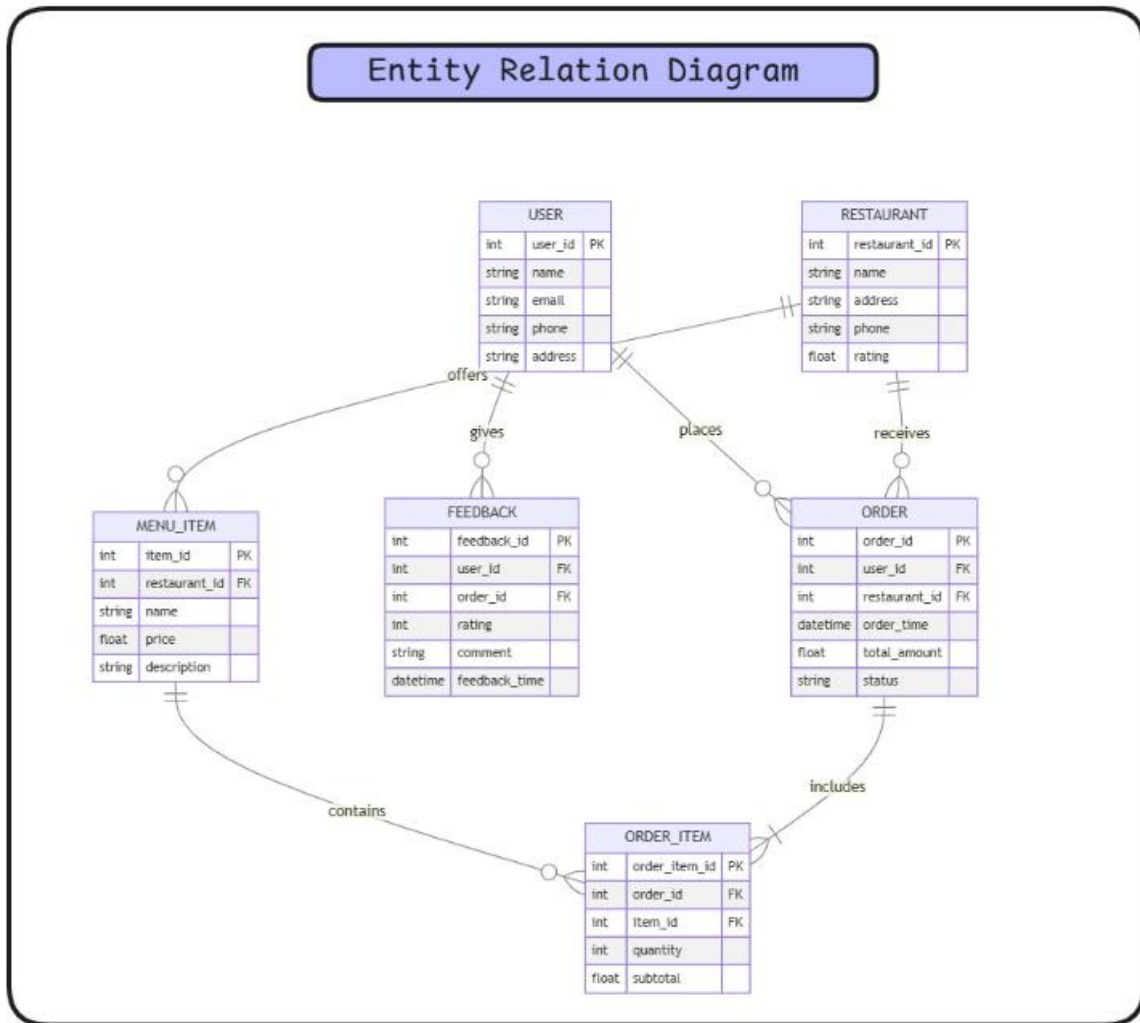
Use Case Diagram:

- Customers can register, login, browse menus, place orders, and give feedback.
- Restaurant Owners can manage menus, view orders, and respond to feedback.
- Administrators oversee user activities, generate reports, and ensure system stability.



Entity Relation Diagram: The backend structure includes:

- User: Stores customer and restaurant owner information.
- Menu Item: Represents food items with details like name, price, and availability.
- Order: Tracks customer orders and their statuses.
- Feedback: Captures user reviews and ratings.



Technologies Used

Frontend:

- HTML, CSS for structure and styling.
- Thymeleaf for dynamic content rendering.

Backend:

- Spring Boot for RESTful services.
- Java for server-side logic.
- MySQL for data storage.

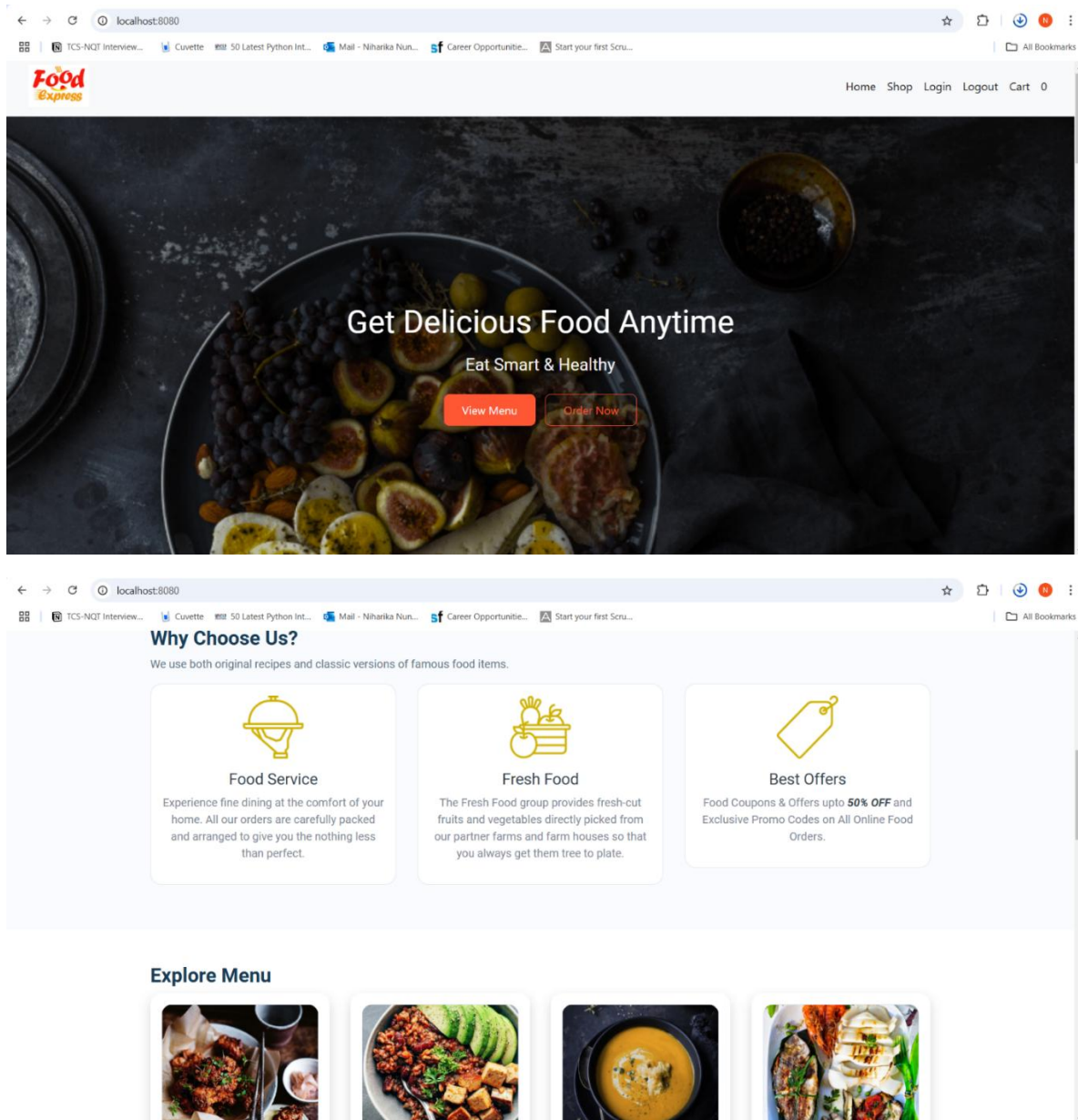
Tools:

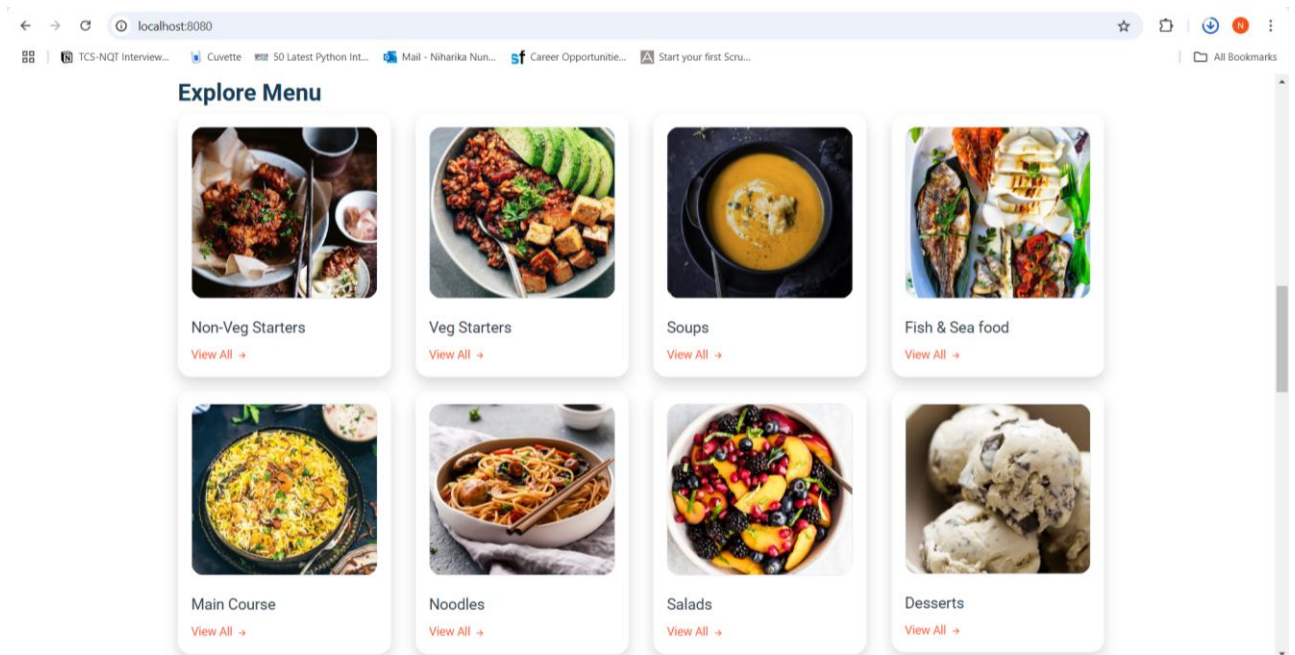
- Spring Tool Suite for development

Implementation

Homepage:

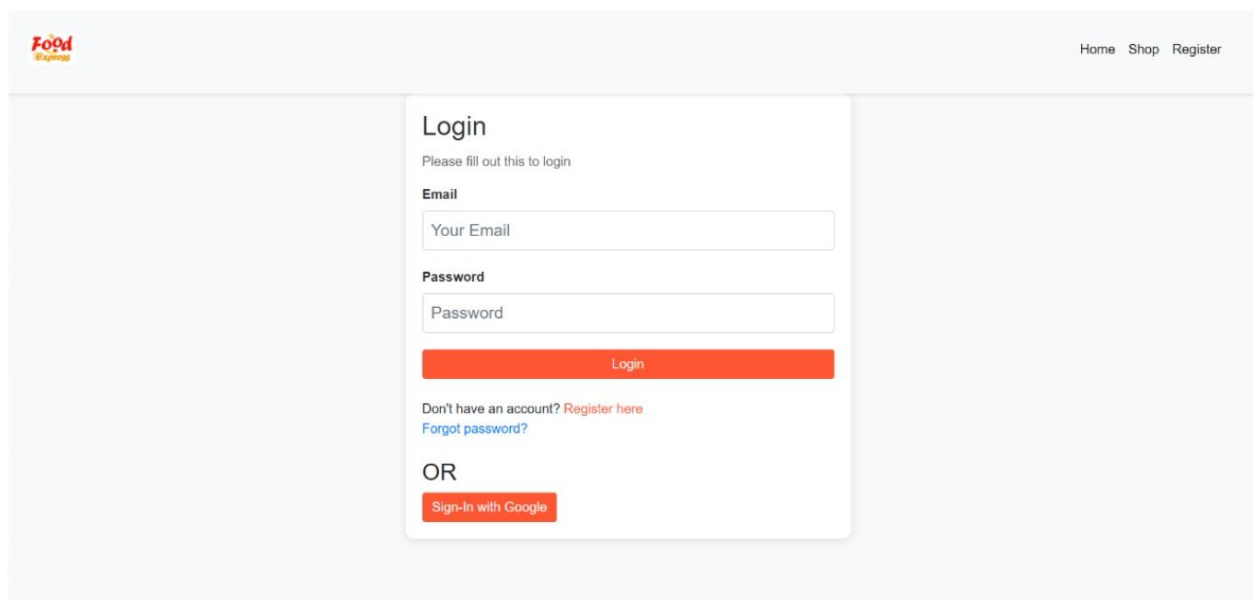
- Includes a banner showcasing offers and a navigation bar for quick access.





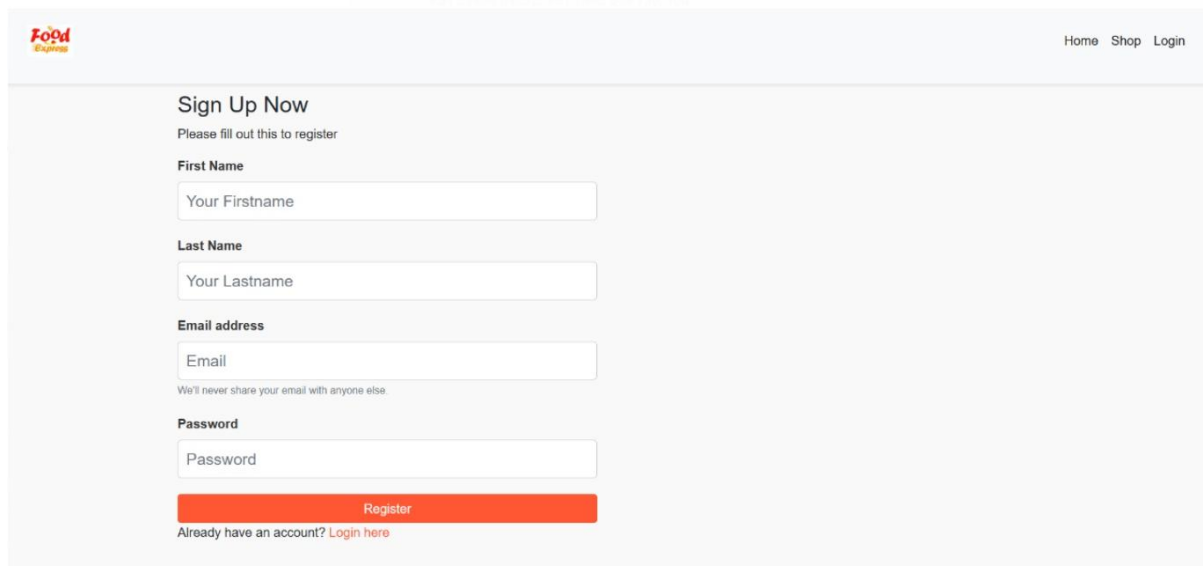
Login Page:

- Features fields for email and password, with options for registration and password recovery.



Register Page:

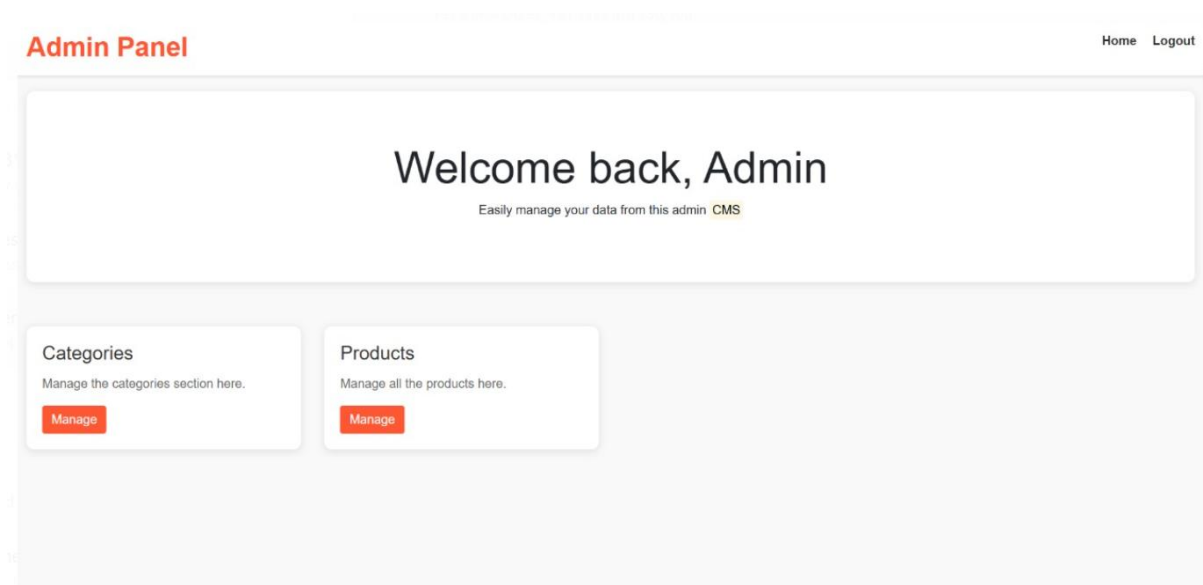
-Allows users to create an account by providing necessary details like name, email, and password.



The screenshot shows a registration form titled "Sign Up Now" with the instruction "Please fill out this to register". The form includes four input fields: "First Name" (placeholder: "Your Firstname"), "Last Name" (placeholder: "Your Lastname"), "Email address" (placeholder: "Email"), and "Password" (placeholder: "Password"). Below the password field is a red "Register" button. A link "Already have an account? Login here" is located at the bottom of the form. The page header features the "Food Express" logo and navigation links for "Home", "Shop", and "Login".

Admin Panel:

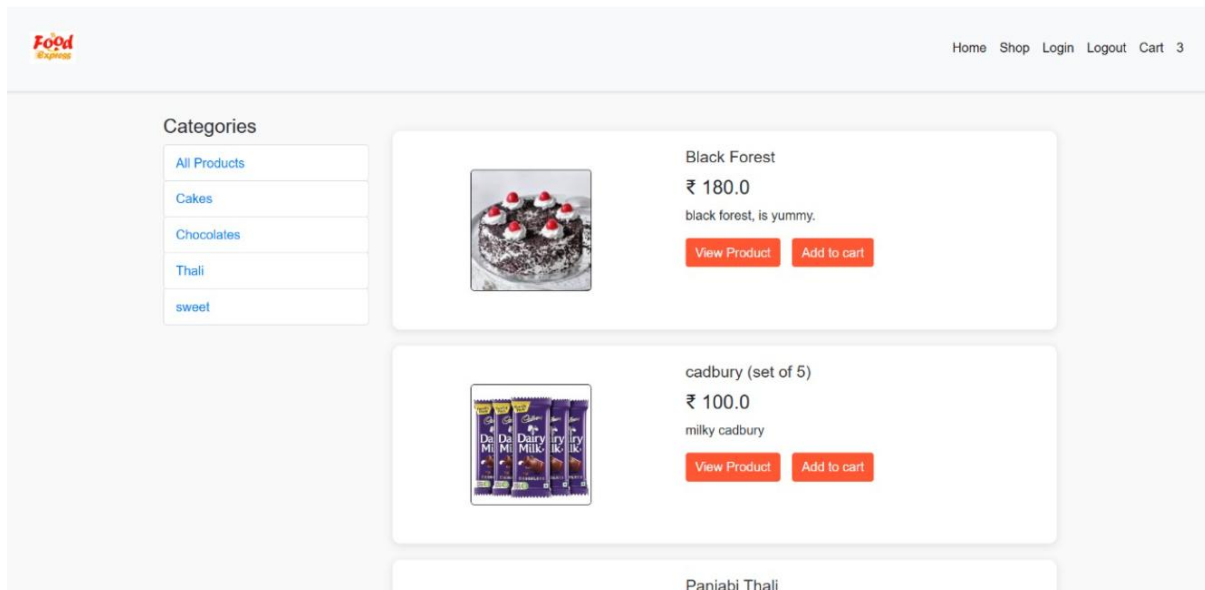
-Enables administrators to monitor system activities, generate reports, and manage user roles.



The screenshot displays the "Admin Panel" dashboard. At the top, it says "Welcome back, Admin" with a subtext "Easily manage your data from this admin CMS". Below this, there are two main sections: "Categories" and "Products". Each section has a description ("Manage the categories section here." and "Manage all the products here." respectively) and a red "Manage" button. The page header includes the "Admin Panel" title and navigation links for "Home" and "Logout".

Menu Page:

- Displays a dynamic list of menu items fetched from the database, with sorting and filtering options.



Testing and Validation

The website has been tested for functionality, responsiveness, and performance. Test cases include:

- User registration and login validation: Validation of registration, login, and password recovery functionalities.
- Dynamic menu display with sorting and filtering: Verification of real-time menu updates and accurate sorting/filtering.
- Responsive design across various devices: Ensuring optimal user experience across various devices

Conclusion

The Food Express website successfully bridges the gap between customers and restaurants by providing a robust, scalable, and user-friendly platform. With its focus on future enhancements and adaptability, the platform is well-equipped to evolve alongside the demands of the online food delivery industry.

