MADRAS INSTITUTE OF TECHNOLOGY

ANNA UNIVERSITY CHENNAI

CHENNAI - 600 044.

DEPARTMENT OF INFORMATION TECHNOLOGY

NAAN MUDHALVAN PROJECT REPORT

TEAM NUMBER: TEAM-856

TOPIC: SB FOODS

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SB FOODS: FOOD DELIVERY APPLICATION DOCUMENTATION

Introduction

SB Foods is a cutting-edge food delivery platform designed to connect users with a wide variety of restaurants. The platform offers a seamless and user-friendly experience for both customers and restaurants. It provides users with an extensive product catalog, a secure checkout process, and detailed order management features, while also offering restaurants robust tools to manage their business effectively.

Entities in the Platform

1. User

- Represents individuals or entities registered on the platform.

- Each user has a unique profile allowing them to browse products, add items to their cart, and place orders.

2. Restaurant

- Represents a collection of details about each restaurant registered on the platform.

- Includes information such as restaurant name, menu offerings, and operational details.

3. Admin

- Represents a special collection with administrative privileges.

- Manages important platform features such as promoted restaurants and product categories.

4. Products

- Represents a collection of all food items available on the platform.

- Each product has detailed descriptions, pricing, customer reviews, and discount information.

5. Cart

- A collection that stores products added by users for potential purchase.

- Differentiates cart items by user ID to maintain personalization.

6. Orders

- A collection that stores all orders made by users.

- Contains detailed information about order status, user ID, products purchased, and shipping details.

Key Features

1. Comprehensive Product Catalog

SB Foods offers an extensive catalog of food items sourced from various restaurants. Users can:

- Explore and discover diverse food options.
- View detailed product descriptions, customer reviews, pricing, and discounts.
- Easily find the perfect food item to satisfy their hunger.

2. Order Details Page

- Upon clicking "Shop Now," users are directed to the order details page.
- Users can input critical information such as:
  - Shipping address.
  - Preferred payment method.
  - Any specific product requirements.

3. Secure and Efficient Checkout Process

- The platform ensures a swift and secure checkout process.
- Personal information is handled with top-tier security measures.
- The process is designed to be intuitive and hassle-free.

4. Order Confirmation and Details

- Users receive a confirmation notification upon successfully placing an order.
- The confirmation page displays all pertinent order details, including:
  - Shipping information.
  - Payment method.
  - Specific product requests.

5. Restaurant Dashboard

SB Foods offers a powerful dashboard for restaurant partners, allowing them to:

- Add and manage multiple product listings.
- View order history.
- Monitor customer activity.
- Access order details for all purchases.

Workflow

User Workflow

1. Account Registration

   - Users sign up by providing essential details such as name, email, and password.

2. Product Browsing

   - Users explore the extensive product catalog using filters like cuisine, price, and discounts.

3. Adding to Cart

   - Users add desired food items to their cart.

4. Order Placement

   - Users provide shipping and payment details on the order details page.

5. Order Confirmation

   - Users receive a confirmation notification and can review the order details.

Restaurant Workflow

1. Account Registration

   - Restaurants register on the platform and provide essential business details.

2. Menu Management

   - Restaurants use the dashboard to add, update, or remove product listings.

3. Order Management

   - Restaurants view order history and details through the dashboard.

4. Customer Interaction

   - Restaurants can monitor customer feedback and improve services.

User: Represents the individuals or entities who are registered in the platform.

Restaurant: This represents the collection of details of each restaurant in the platform.

Admin: Represents a collection with important details such as promoted restaurants and Categories.

Products: Represents a collection of all the food items available in the platform.

Cart: This collection stores all the products that are added to the cart by users. Here, the elements in the cart are differentiated by the user Id.

Orders: This collection stores all the orders that are made by the users in the platform.

FEATURES:

1. **Comprehensive Product Catalog:** SB Foods boasts an extensive catalog of food items from various restaurants, offering a diverse range of items and options for shoppers. You can effortlessly explore and discover various products, complete with detailed descriptions, customer reviews, pricing, and available discounts, to find the perfect food for your hunger.

2. **Order Details Page**: Upon clicking the "Shop Now" button, you will be directed to an order details page. Here, you can provide relevant information such as your shipping address, preferred payment method, and any specific product requirements.

3. **Secure and Efficient Checkout Process:** SB Foods guarantees a secure and efficient checkout process. Your personal information will be handled with the utmost security, and we strive to make the purchasing process as swift and trouble-free as possible.

4. **Order Confirmation and Details:** After successfully placing an order, you will receive a confirmation notification. Subsequently, you will be directed to an order details page, where you can review all pertinent information about your order, including shipping details, payment method, and any specific product requests you specified.

In addition to these user-centric features, SB Foods provides a robust restaurant dashboard, offering restaurants an array of functionalities to efficiently manage their products and sales. With the restaurant dashboard, restaurants can add and oversee multiple product listings, view order history, monitor customer activity, and access order details for all purchases.

SB Foods is designed to elevate your online food ordering experience by providing a seamless and user-friendly way to discover your desired foods. With our efficient checkout process, comprehensive product catalog, and robust restaurant dashboard, we ensure a convenient and enjoyable online shopping experience for both shoppers and restaurants alike.

TECH STACK USED

npm: Node Package Manager

npm (Node Package Manager) is the default package manager for Node.js. It is a powerful tool that enables developers to share, discover, and manage reusable code modules. With npm, developers can easily install libraries or tools needed for their Node.js projects.

MongoDB: A NoSQL Database

MongoDB is a popular open-source, document-oriented database designed to handle large volumes of unstructured data. It is classified as a MongoDB database because it does not use the traditional table-based relational database structure. Instead, it stores data in flexible, JSON-like documents, making it highly scalable, efficient, and developer-friendly.

Express.js: A Web Application Framework for Node.js

Express.js is a fast, lightweight, and flexible web application framework for Node.js. It provides robust features for building web and mobile applications. As a minimal and unopinionated framework, Express.js simplifies the process of managing routes, handling requests, and serving responses in server-side applications.

React.js: A JavaScript Library for Building User Interfaces

React.js, often referred to simply as React, is a popular open-source JavaScript library for building dynamic and interactive user interfaces. Developed and maintained by Meta (formerly Facebook) and a community of developers, React is widely used for building single-page applications (SPAs) and handling the view layer of web and mobile applications.

HTML (Hypertext Markup Language)

HTML is the foundational markup language used to create the structure of a webpage. It defines the content, structure, and elements on a webpage, such as text, images, links, forms, and multimedia.

CSS (Cascading Style Sheets)

CSS is a stylesheet language used to control the appearance of HTML elements. It defines how elements are styled, including their layout, colors, fonts, and positioning.

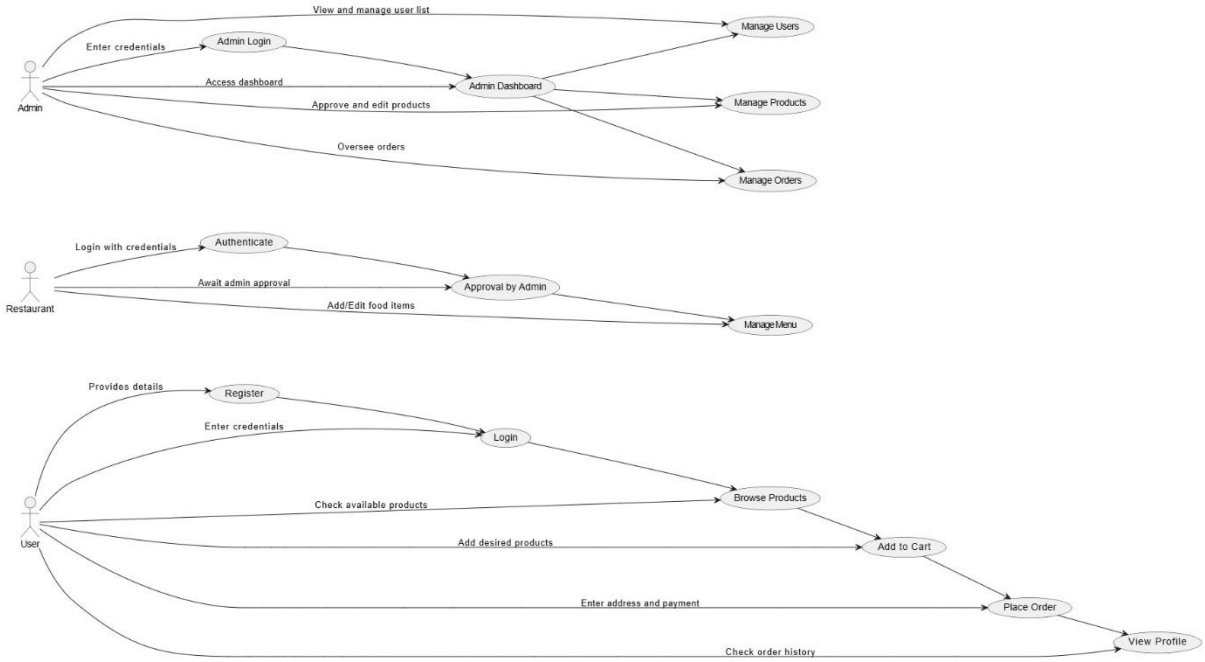
JavaScript

JavaScript is a versatile programming language that allows developers to add interactivity and dynamic behavior to web pages. It runs in the browser and can manipulate the DOM (Document Object Model), enabling dynamic content updates.

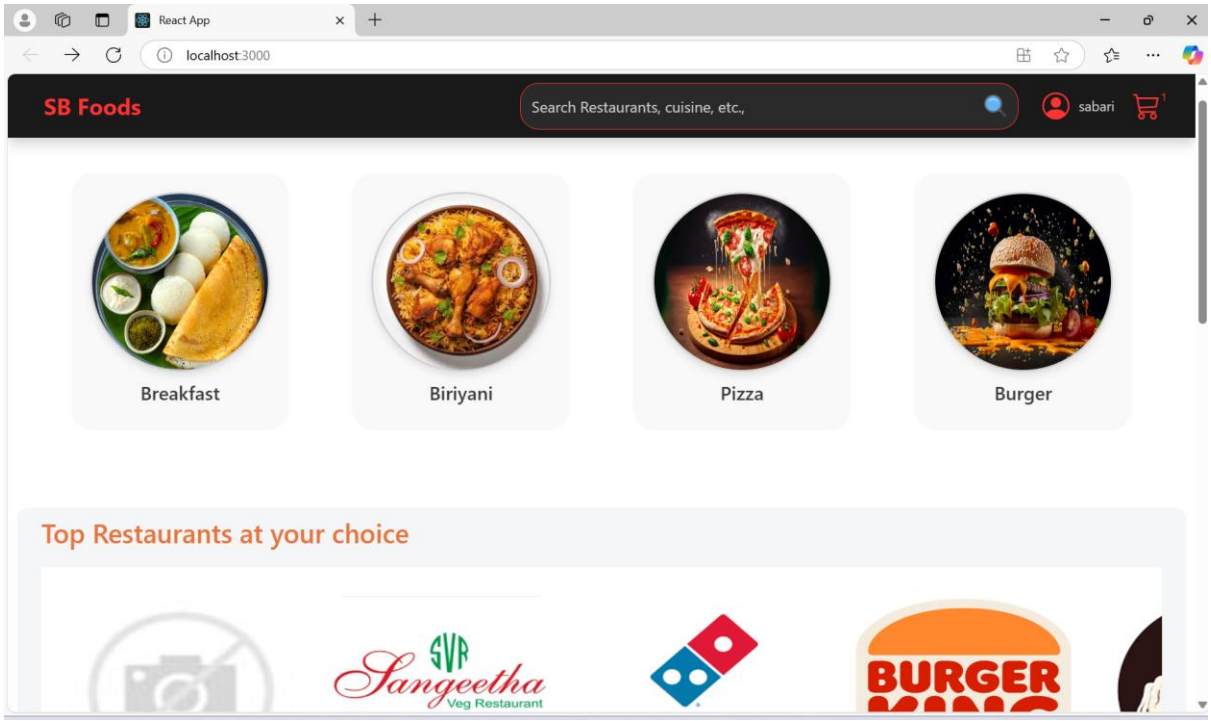
Database Connectivity

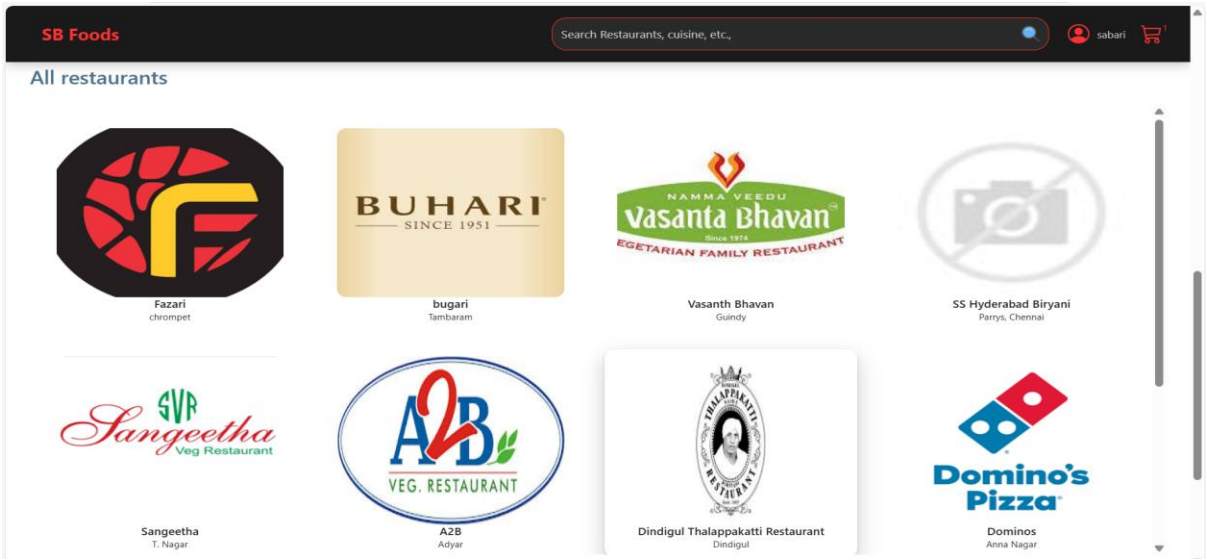
Database connectivity refers to the process of establishing a connection between an application (server-side or client-side) and a database management system (DBMS) to store, retrieve, and manipulate data. In web development, database connectivity allows an application to interact with databases MongoDB.

USE CASE:



SAMPLE SCREENSHOTS:





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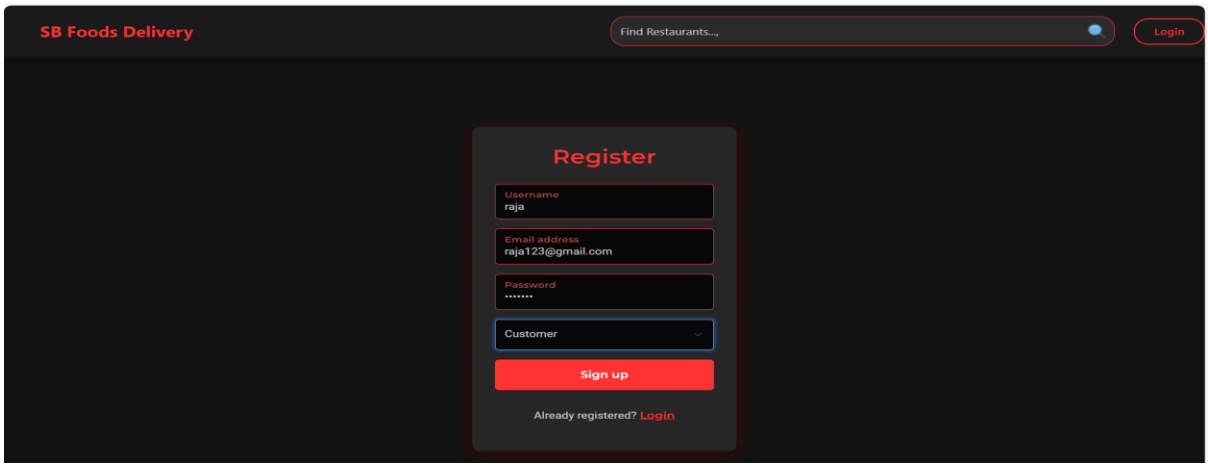
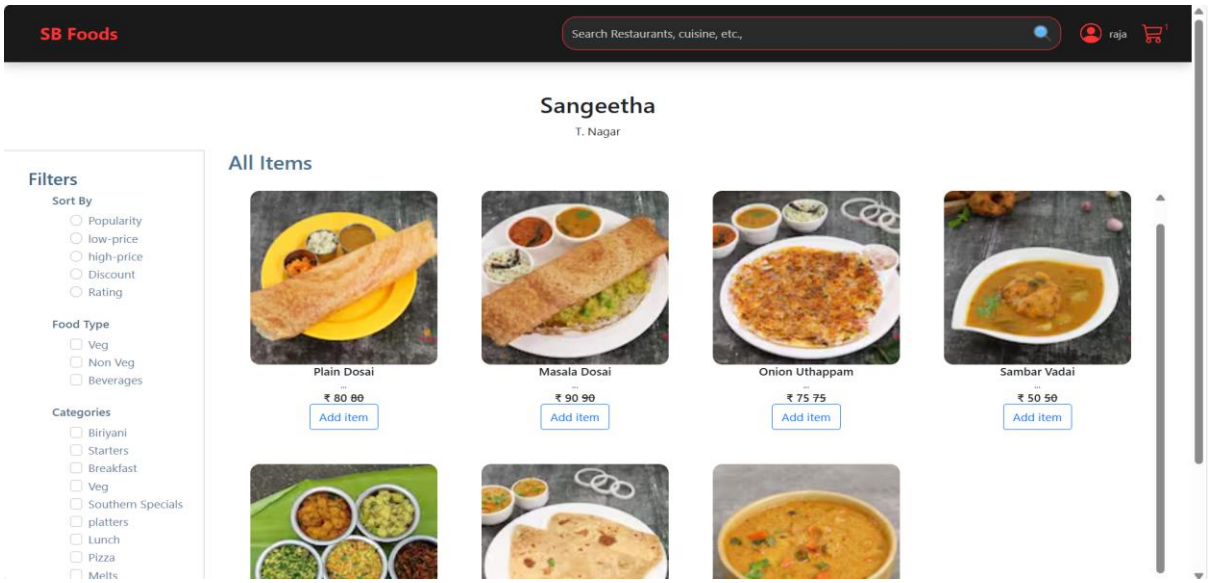
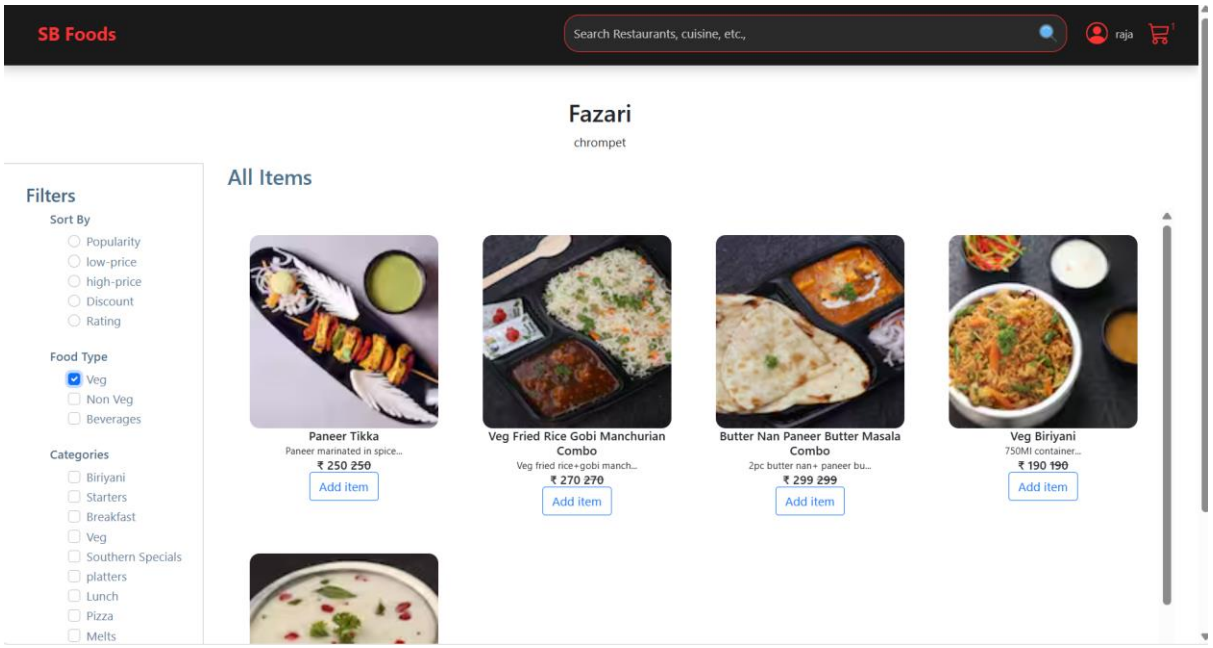


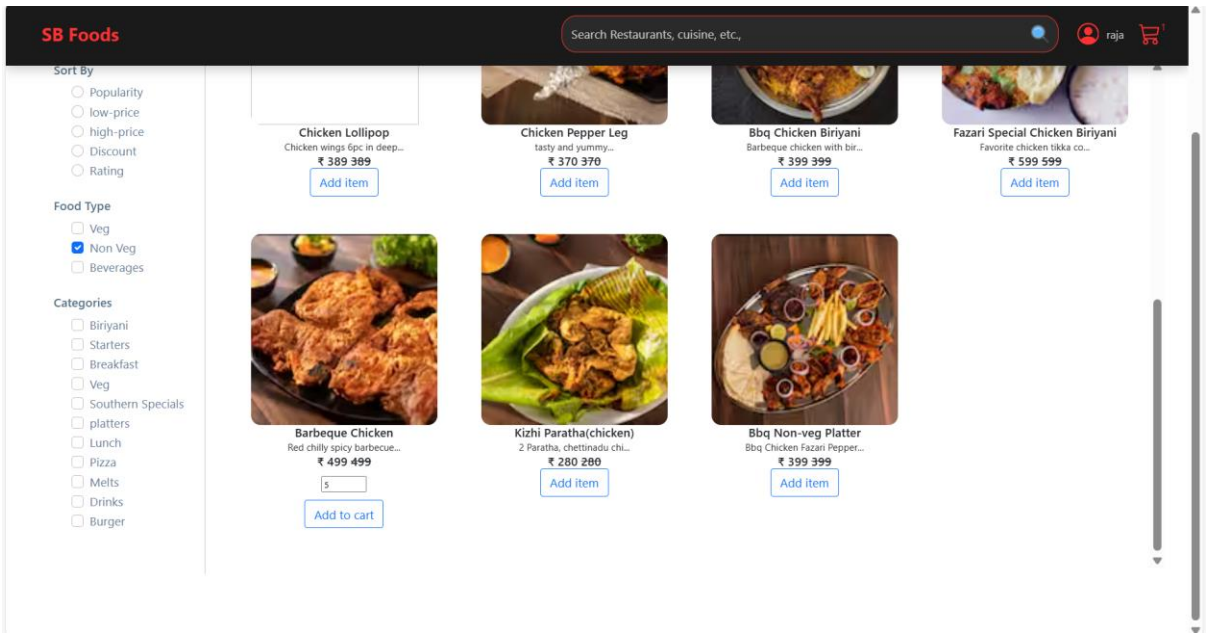
Food Available in Particular Restaurant:

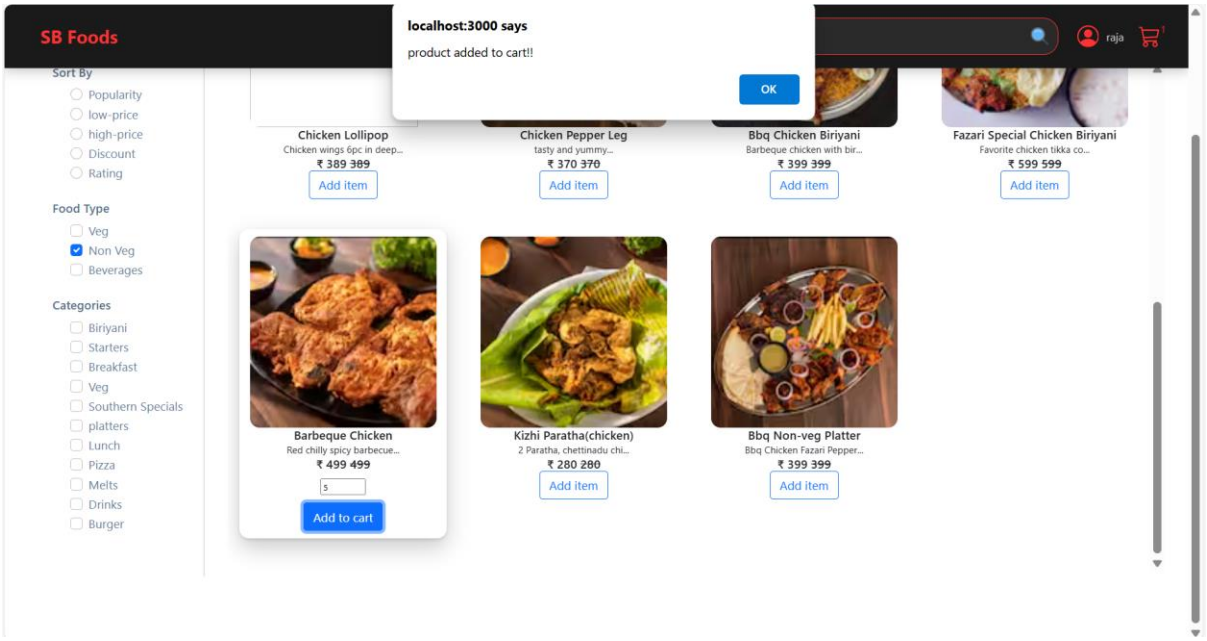


Filtering based on preference:

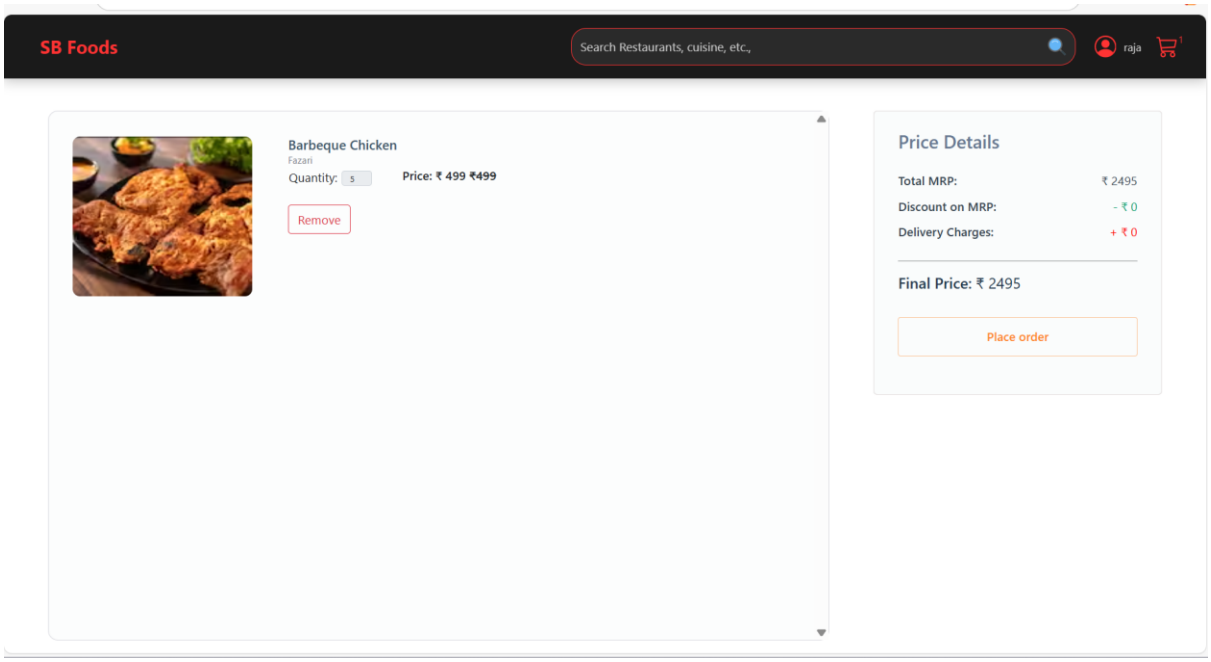


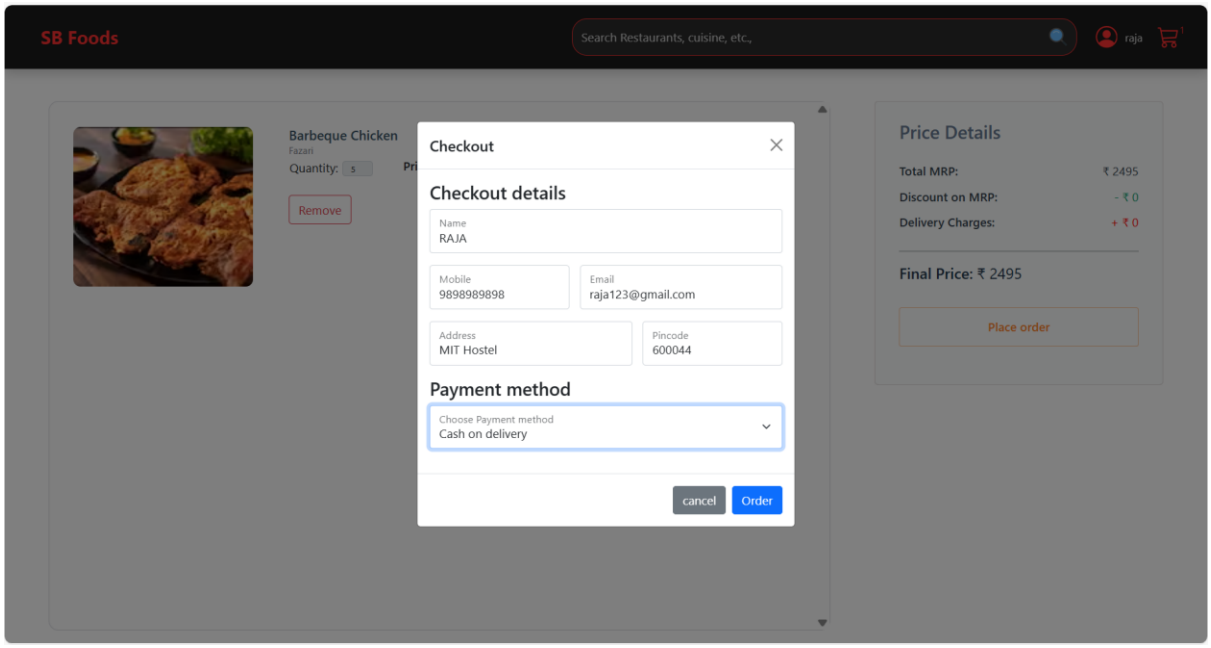
Customer order:

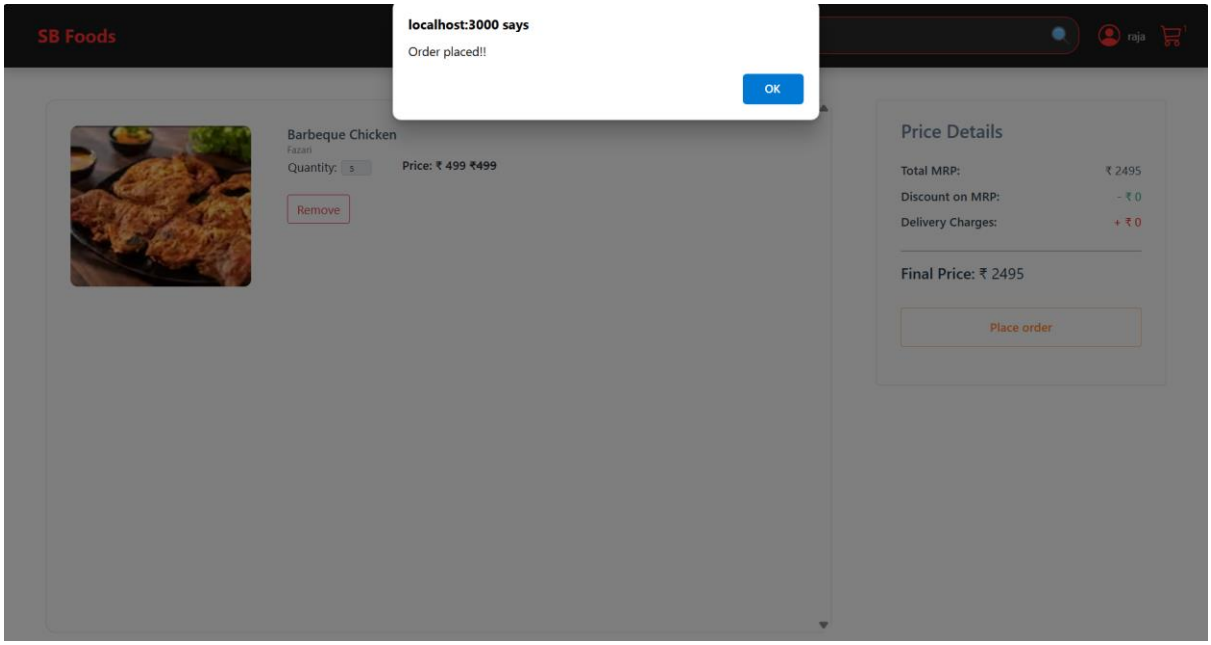


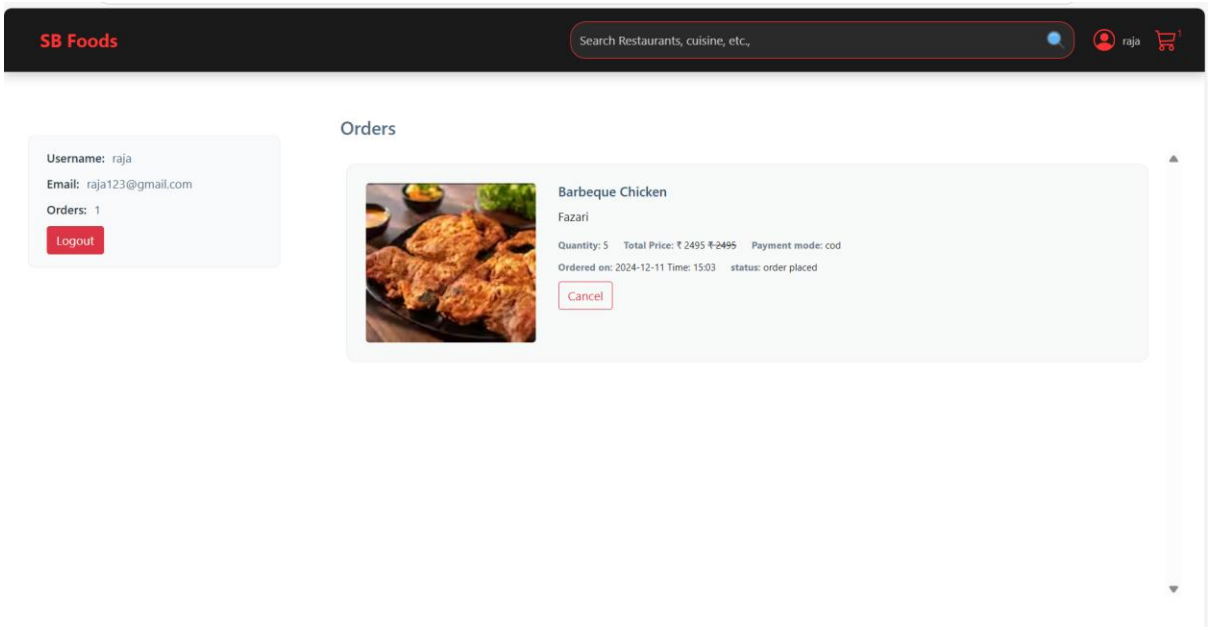


Ordering Food:

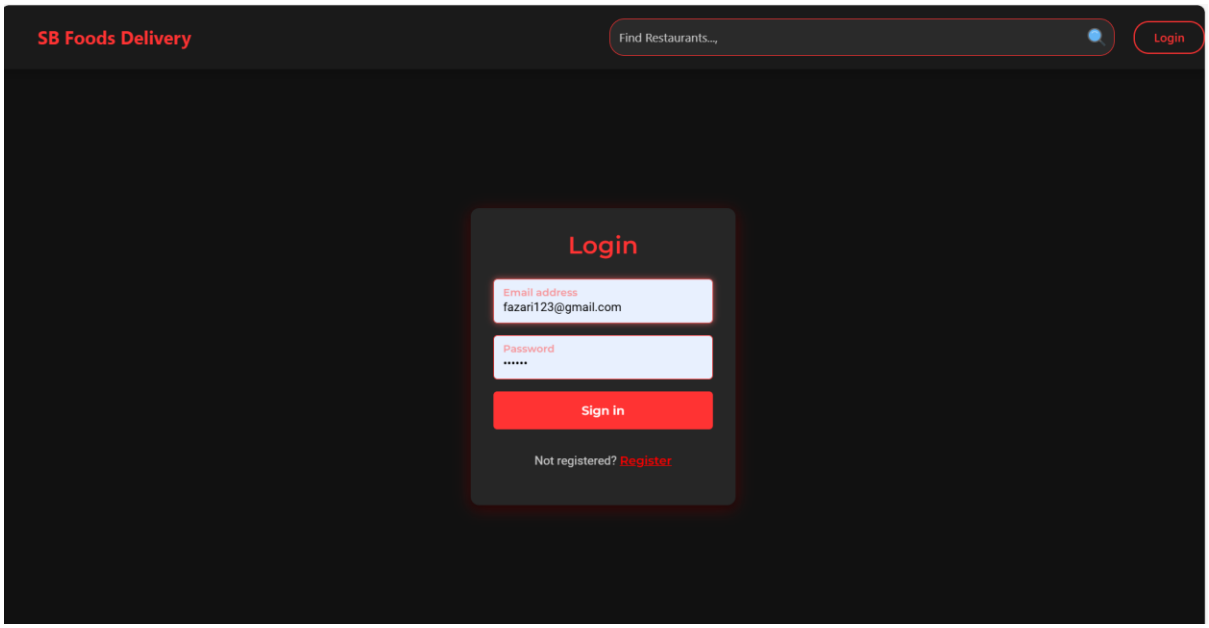


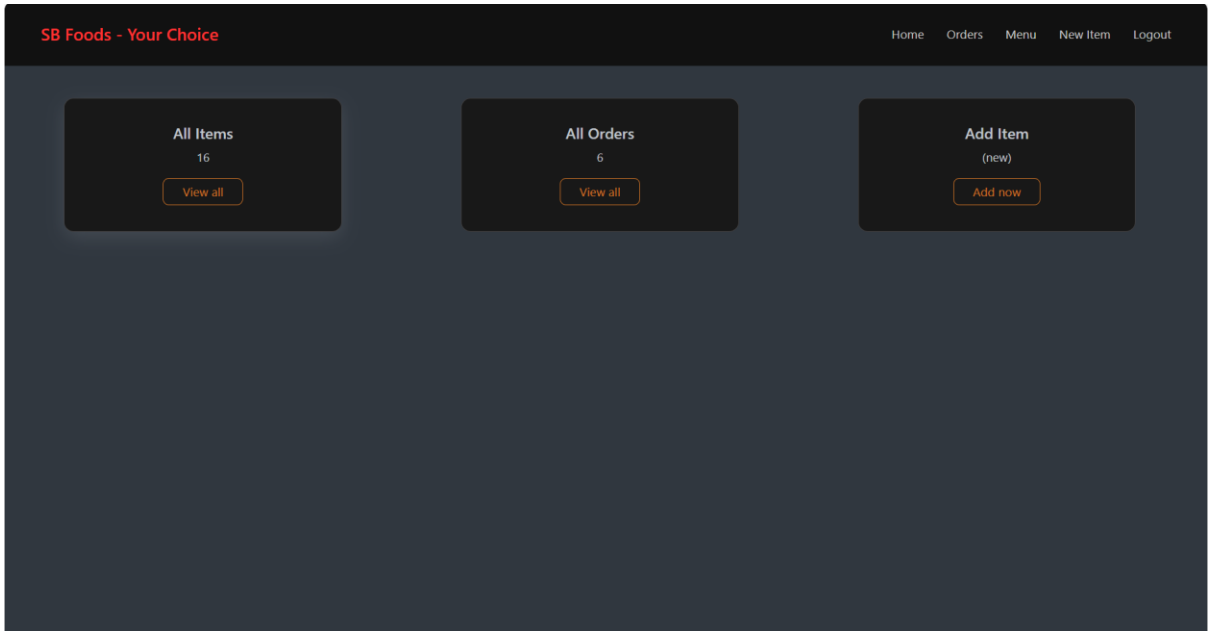

SB Foods
Search Restaurants, cuisine, etc.,
raja
Barbeque Chicken
Fazari
Quantity: 5
Remove
Checkout
Checkout details
Name
RAJA
Mobile
9898989898
Email
raja123@gmail.com
Address
MIT Hostel
Pincode
600044
Payment method
Choose Payment method
Cash on delivery
cancel
Order
Price Details
Total MRP: ₹ 2495
Discount on MRP: - ₹ 0
Delivery Charges: + ₹ 0
Final Price: ₹ 2495
Place order

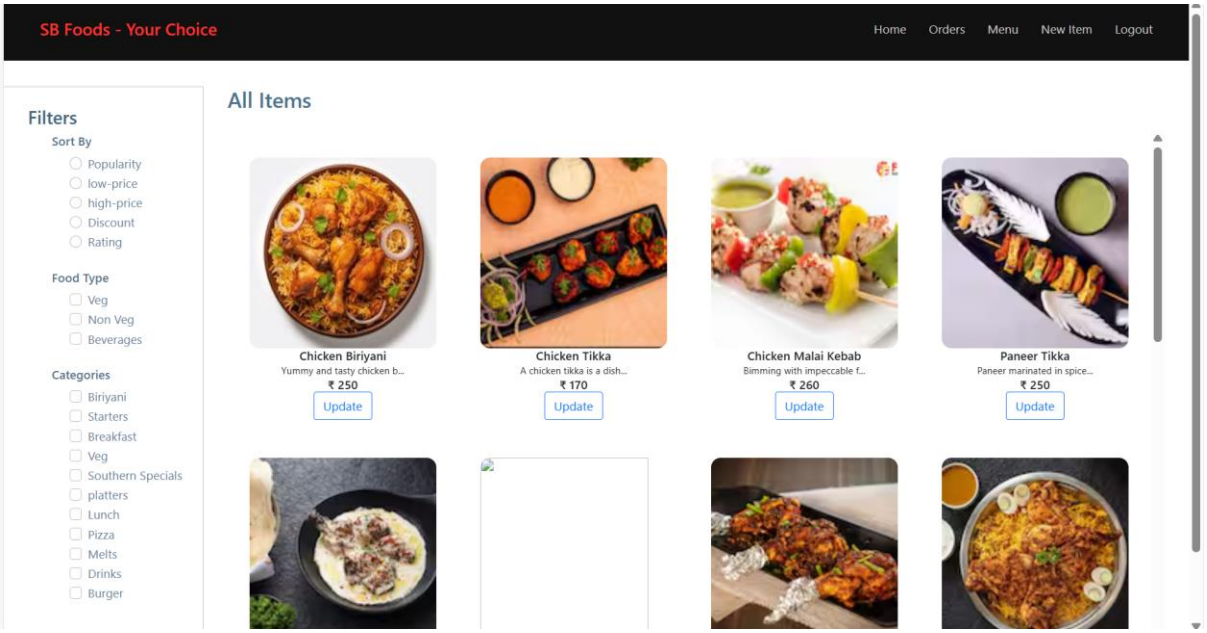

SB Foods
raja
localhost:3000 says
Order placed!!
OK
Barbeque Chicken
Fazari
Quantity: 5
Price: ₹ 499 ₹499
Remove
Price Details
Total MRP: ₹ 2495
Discount on MRP: - ₹ 0
Delivery Charges: + ₹ 0
Final Price: ₹ 2495
Place order

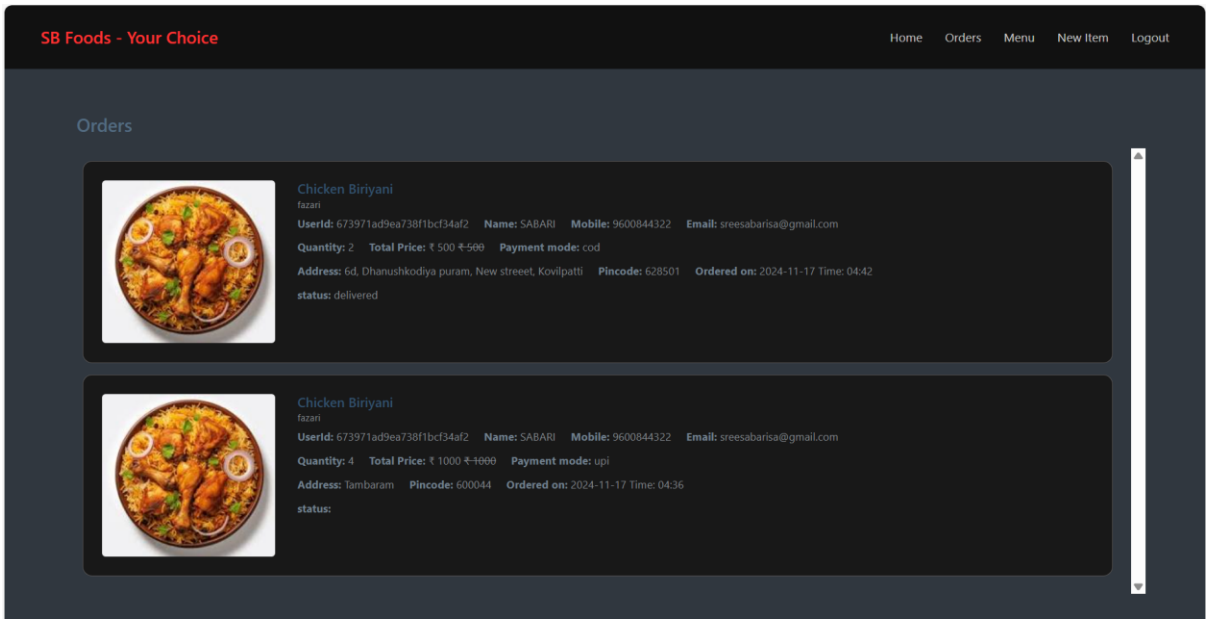


Restaurant Login:

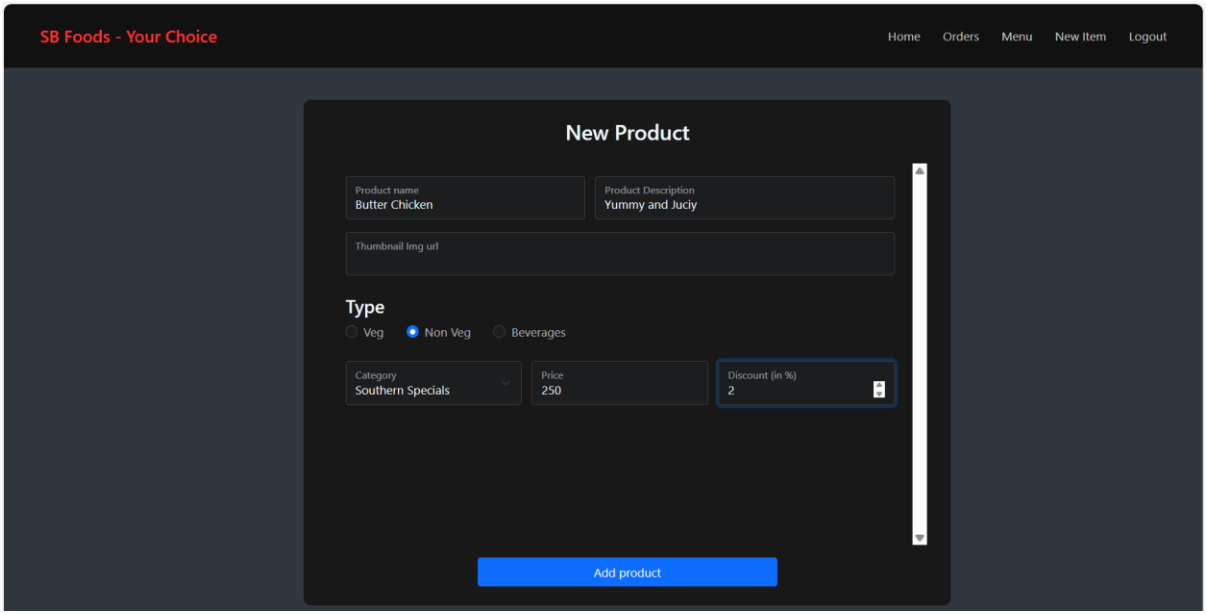


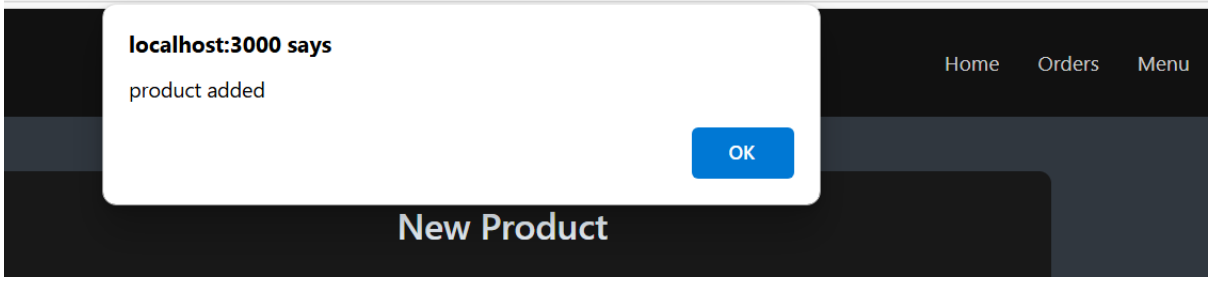

SB Foods - Your Choice
Home
Orders
Menu
New Item
Logout
All Items
16
View all
All Orders
6
View all
Add Item
(new)
Add now


SB Foods - Your Choice
Home
Orders
Menu
New Item
Logout
Filters
Sort By
Popularity
low-price
high-price
Discount
Rating
Food Type
Veg
Non Veg
Beverages
Categories
Biriyani
Starters
Breakfast
Veg
Southern Specials
platters
Lunch
Pizza
Melts
Drinks
Burger
All Items
Chicken Biriyani
Yummy and tasty chicken b...
₹ 250
Update
Chicken Tikka
A chicken tikka is a dish...
₹ 170
Update
Chicken Malai Kebab
Bimming with impeccable f...
₹ 260
Update
Paneer Tikka
Paneer marinated in spice...
₹ 250
Update

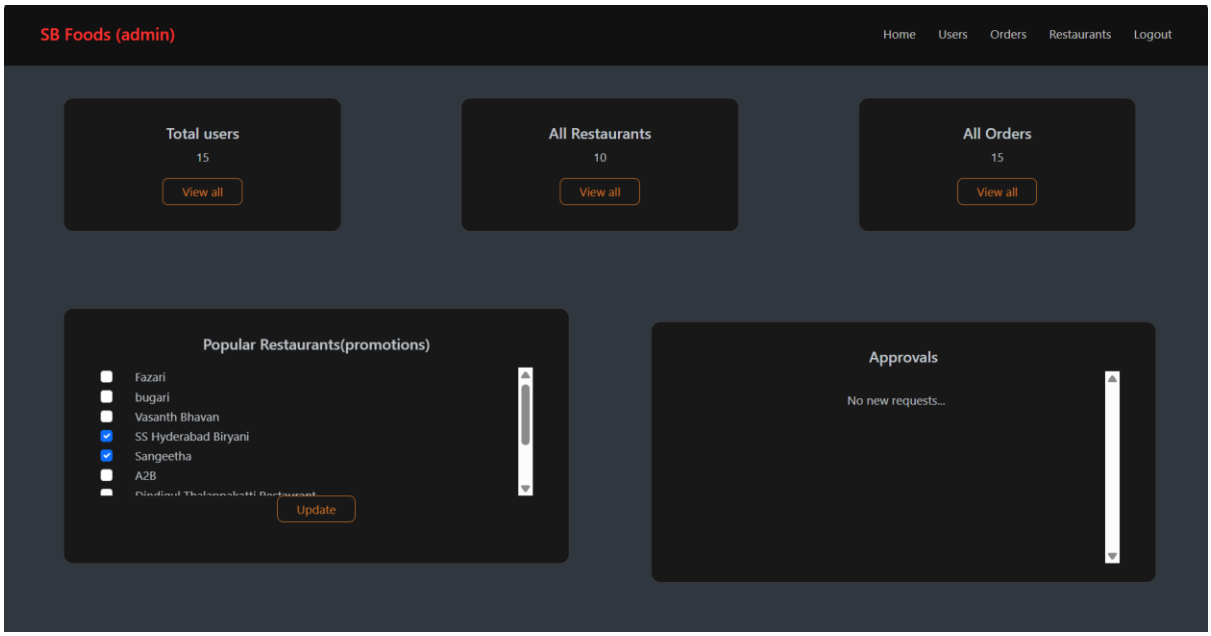


Adding New Items

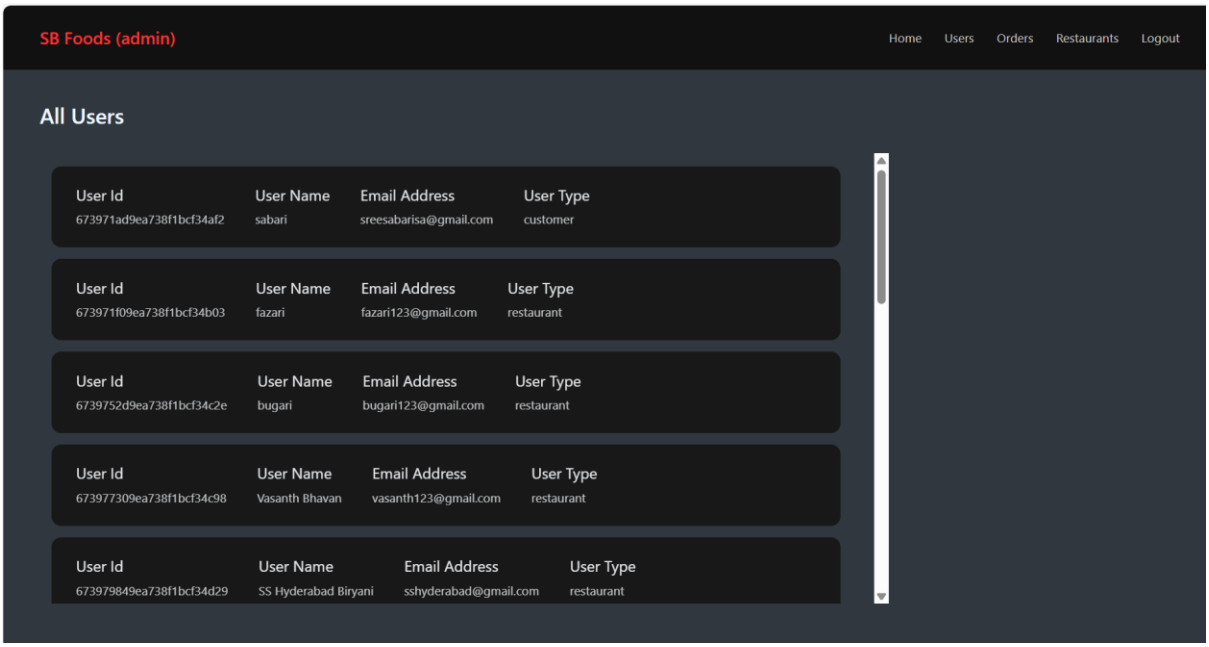




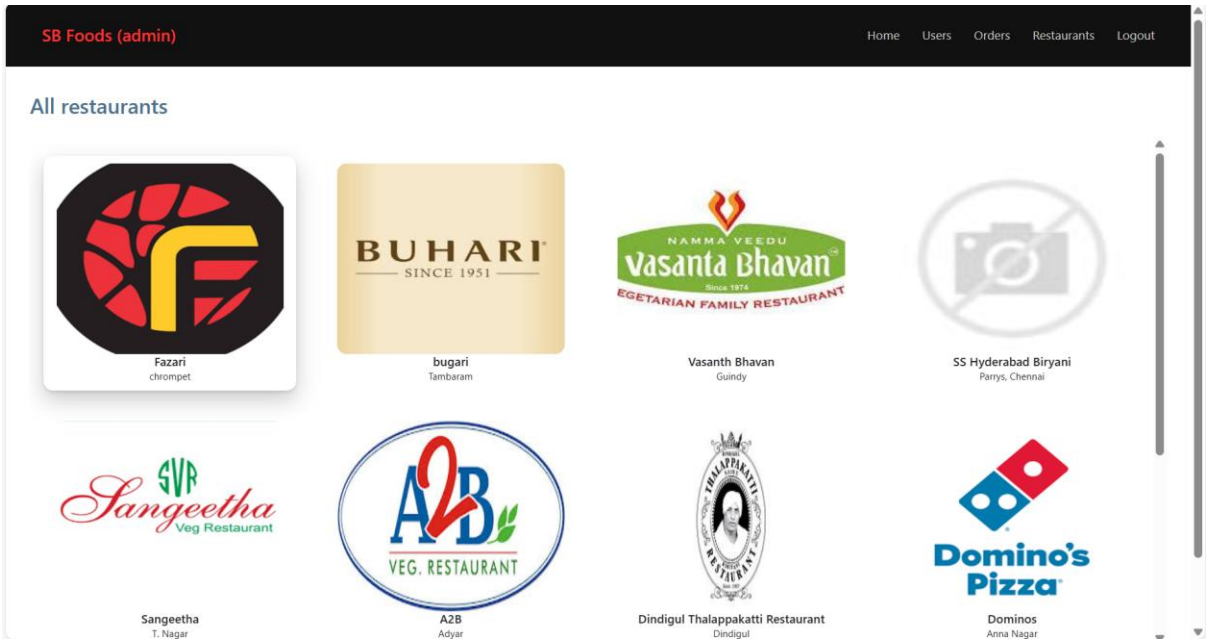
Admin Login:



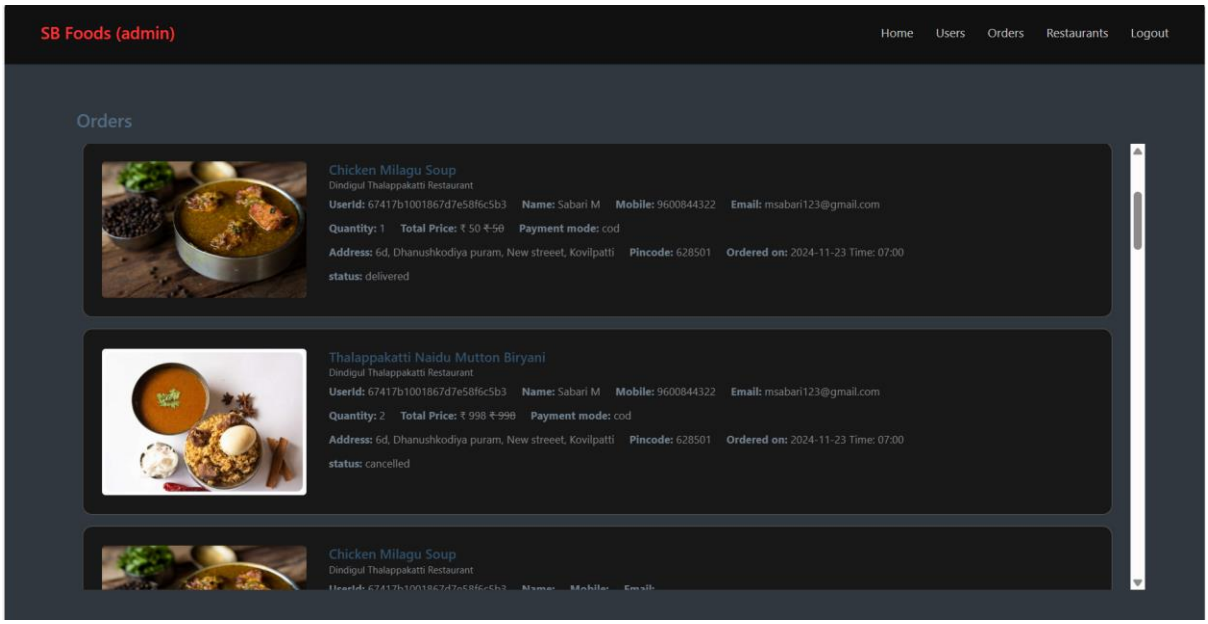
View All Users



View All Restaurants:



View All orders:



CONCLUSION

SB Foods is dedicated to enhancing the online food ordering experience by providing a comprehensive, secure, and user-friendly platform. With features tailored for both users and restaurants, SB Foods bridges the gap between hungry customers and their favorite meals. Join us in revolutionizing the way people discover and enjoy food!