SB Foods - Food Ordering App

Hardware Required:

Windows 8 machine

Software Required:

Install with two web browser

System Required:

Bandwidth of 30mbps

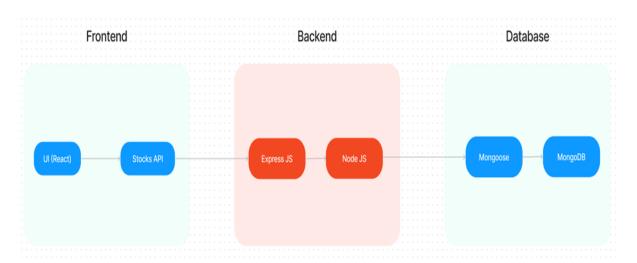
Introducing SB Foods, the cutting-edge digital platform poised to revolutionize the way you order food online. With SB Foods, your food ordering experience will reach unparalleled levels of convenience and efficiency.

Our user-friendly web app empowers foodies to effortlessly explore, discover, and order dishes tailored to their unique tastes. Whether you're a seasoned food enthusiast or an occasional diner, finding the perfect meals has never been more straightforward.

Imagine having comprehensive details about each dish at your fingertips. From dish descriptions and customer reviews to pricing and available promotions, you'll have all the information you need to make well-informed choices. No more second-guessing or uncertainty — SB Foods ensures that every aspect of your online food ordering journey is crystal clear.

The ordering process is a breeze. Just provide your name, delivery address, and preferred payment method, along with your desired dishes. Once you place your order, you'll receive an instant confirmation. No more waiting in long queues or dealing with complicated ordering processes – SB Foods streamlines it, making it quick and hassle-free.

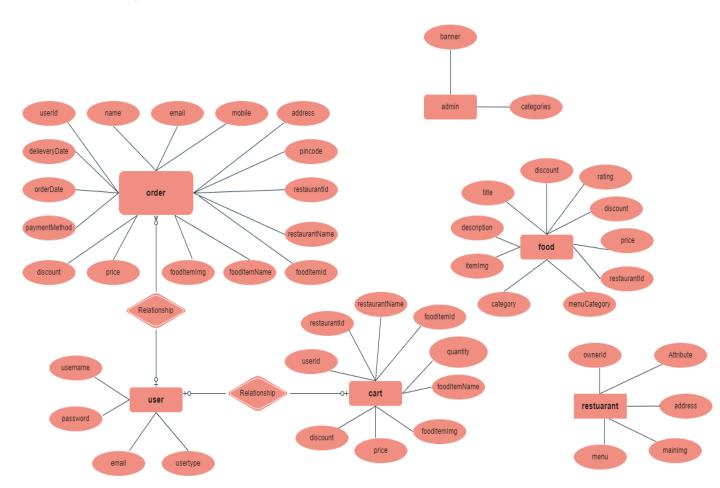
TECHNICAL ARCHITECTURE:



In this architecture diagram:

- The frontend is represented by the "Frontend" section, including user interface components such as User Authentication, Cart, Products, Profile, Admin dashboard, etc.,
- The backend is represented by the "Backend" section, consisting of API endpoints for Users, Orders, Products, etc., It also includes Admin Authentication and an Admin Dashboard.
- The Database section represents the database that stores collections for Users, Admin, Cart, Orders, and products.

ER DIAGRAM



The SB Foods ER-diagram represents the entities and relationships involved in an food ordering e-commerce system. It illustrates how users, restaurants, products, carts, and orders are interconnected. Here is a breakdown of the entities and their relationships:

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.
- 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.

Pre-requisite

To develop a full-stack food ordering app using React JS, Node.js, and MongoDB, there are several prerequisites you should consider. Here are the key prerequisites for developing such an application:

Node.js and npm: Install Node.js, which includes npm (Node Package Manager), on your development machine. Node.js is required to run JavaScript on the server side. • Download: https://nodejs.org/en/download/

• Installation instructions: https://nodejs.org/en/download/package-manager/

MongoDB: Set up a MongoDB database to store hotel and booking information. Install MongoDB locally or use a cloud-based MongoDB service.

- Download: https://www.mongodb.com/try/download/community
- Installation instructions: https://docs.mongodb.com/manual/installation/

Express.js: Express.js is a web application framework for Node.js. Install Express.js to handle server-side routing, middleware, and API development.

• Installation: Open your command prompt or terminal and run the following command: **npm install express**

React.js: React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications. To install React.js, a JavaScript library for building user interfaces, follow the installation guide: https://reactjs.org/docs/create-a-new-react-app.html

HTML, CSS, and JavaScript: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

Database Connectivity: Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations.

Front-end Framework: Utilize Angular to build the user-facing part of the application, including product listings, booking forms, and user interfaces for the admin dashboard.

Version Control: Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

• Git: Download and installation instructions can be found at: https://gitscm.com/downloads

Development Environment: Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

- Visual Studio Code: Download from https://code.visualstudio.com/download
- Sublime Text: Download from https://www.sublimetext.com/download
- WebStorm: Download from https://www.jetbrains.com/webstorm/download

To Connect the Database with Node JS go through the below provided link:

Link: https://www.section.io/engineering-education/nodejs- mongoosejs-mongodb/

To run the existing SB Foods App project downloaded from github:

Follow below steps:

Clone the repository:

- Open your terminal or command prompt.
- Navigate to the directory where you want to store the e-commerce app.
- Execute the following command to clone the repository:

Git clone: https://github.com/harsha-vardhan-reddy-07/Food-Ordering-App-MERN Install Dependencies:

• Navigate into the cloned repository directory:

cd Food-Ordering-App-MERN

Install the required dependencies by running the following command:

npm install

Start the Development Server:

• To start the development server, execute the following command:

npm run dev or npm run start

• The e-commerce app will be accessible at http://localhost:3000 by default. You can change the port configuration in the .env file if needed.

Access the App:

- Open your web browser and navigate to http://localhost:3000.
- You should see the flight booking app's homepage, indicating that the installation and setup were successful.

You have successfully installed and set up the SB Foods app on your local machine. You can now proceed with further customization, development, and testing as needed.

Application Flow

1. User Flow:

- Users start by registering for an account.
- After registration, they can log in with their credentials.
- Once logged in, they can check for the available products in the platform. Users can add the products they wish to their carts and order.
- They can then proceed by entering address and payment details. After ordering, they can check them in the profile section.

2. Restaurant Flow:

- Restaurants start by authenticating with their credentials.
- They need to get approval from the admin to start listing the products. They can add/edit the food items.

3. Admin Flow:

- Admins start by logging in with their credentials.
- Once logged in, they are directed to the Admin Dashboard.
- Admins can access the users list, products, orders, etc.

Database Development

Create database in cloud

- Install Mongoose.
- Create database connection.

Reference Image:

```
EXPLORER
                                  Js index.js
                                                   .env
                                  server > JS index.js > ...
                  回の指却
∨ SHOPEZ
                                         import express from "express";

✓ client

                                         import mongoose from "mongoose";
                                         import cors from "cors";
  .env
                                         dotenv.config({ path: "./.env" });
  {} package-lock.json
                                         const app = express();
  {} package.json
                                         app.use(express.json());
                                         app.use(cors());
                                         app.listen(3001, () => {
                                           console.log("App server is running on port 3001");
                                         const MongoUri = process.env.DRIVER_LINK;
                                            await mongoose.connect(MongoUri);
                                             console.log("Connected to your MongoDB database successfully");
                                           } catch (error) {
                                             console.log(error.message);
                                         connectToMongo();
                                                                      TERMINAL
                                PS D:\shopEZ> cd server

⊗ PS D:\shopEZ\server> node index.js

                                  App server is running on port 3001 bad auth : authentication failed
                                O PS D:\shopEZ\server> node index.js
> OUTLINE
                                  App server is running on port 3001
                                  Connected to your MongoDB database successfully
> TIMELINE
> NPM SCRIPTS
```

Schema use-case:

1. User Schema:

• Schema: userSchema

• Model: 'User'

• The User schema represents the user data and includes fields such as username, email, and password.

2. Product Schema:

• Schema: productSchema

Model: 'Product'

• The Product schema represents the data of all the products in the platform.

• It is used to store information about the product details, which will later be useful for ordering.

3. Orders Schema:

Schema: ordersSchema

• Model: 'Orders'

• The Orders schema represents the orders data and includes fields such as userId, product Id, product name, quantity, size, order date, etc.,

4. Cart Schema:

Schema: cartSchema

• Model: 'Cart'

• The Cart schema represents the cart data and includes fields such as userId, product Id, product name, quantity, size, order date, etc.,

• The user Id field is a reference to the user who has the product in cart.

5. Admin Schema:

Schema: adminSchema

• Model: 'Admin'

• The admin schema has essential data such as categories, promoted restaurants, etc.,

6. Restaurant Schema:

• Schema: restaurantSchema

- Model: 'Restaurant'
- The restaurant schema has the info about the restaurant and it's menu

Schemas: Now let us define the required schemas

```
JS Schema.js X
        import mongoose from "mongoose";
             username: {type: String},
            password: {type: String},
             email: {type: String},
            usertype: {type: String},
             approval: {type: String}
            categories: {type: Array},
              promotedRestaurants: []
         const restaurantSchema = new mongoose.Schema({
            ownerId: {type: String},
           title: {type: String},
address: {type: String},
            mainImg: {type: String},
             menu: {type: Array, default: []}
         const foodItemSchema = new mongoose.Schema({
           title: {type: String},
  description: {type: String},
  itemImg: {type: String},
  category: {type: String}, //veg or non-veg or beverage
  menuCategory: {type: String},
  restaurantId: {type: String},
  restaurantId: {type: String},
            price: {type: Number},
discount: {type: Number},
              rating: {type: Number}
```

```
sever > JS Schemajs > ...

const orderSchema = new mongoose.Schema({
    userId: (type: String),
    name: (type: String),
    email: (type: String),
    address: (type: String),
    pincode: (type: String),
    pincode: (type: String),
    restaurantName: (type: String),
    foodItemId: (type: String),
    foodItemId: (type: String),
    foodItemId: (type: String),
    price: (type: Number),
    pic: (type: Number),
    discount: (type: String),
    orderStatus: (type: String),
    orderStatus: (type: String),
    restaurantId: (type: String),
    orderStatus: (type: String),
    restaurantName: (type: String),
    orderOute: (type: String),
    orderOute: (type: String),
    orderOute: (type: String),
    orderOute: (type: String),
    restaurantName: (type: String),
    foodItemId: (type: String),
    foodItemName: (type: Number),
    discount: (type: Number),
    discount: (type: Number),
    price: (type: Number),
    discount: (type: Number),
    price: (type: Number),
    restaurantName: (type: String),
    restaurantName:
```

Backend Development

Set Up Project Structure:

- Create a new directory for your project and set up a package.json file using the npm init command.
- Install necessary dependencies such as Express.js, Mongoose, and other required packages.

Reference Image:

```
{} package.json ×
                  中に甘む
                                 server > {} package.json > {} dependencies
/ SHOPEZ
                                           "name": "server",
                                           "version": "1.0.0",
  > node_modules
                                           "description": "",
  {} package-lock.json
                                           "main": "index.js",
  {} package.json
                                           "scripts": {
                                             "test": "echo \"Error: no test specified\" && exit 1"
                                           "keywords": [],
                                           "author": "",
"license": "ISC",
                                           "dependencies": {
                                             "bcrypt": "^5.1.1",
                                             "body-parser": "^1.20.2",
                                             "cors": "^2.8.5",
"dotenv": "^16.4.5",
                                             "express": "^4.19.1",
                                             "mongoose": "^8.2.3"
                                • PS D:\shopEZ\server> npm install express mongoose body-parser dotenv
                                  added 85 packages, and audited 86 packages in 11s
                                  14 packages are looking for funding
                                    run `npm fund` for details
                                  found • vulnerabilities
                                 PS D:\shopEZ\server> npm i bcrypt cors
> OUTLINE
> TIMELINE
                                  added 61 packages, and audited 147 packages in 9s
```

1. Setup express server:

- Create index.js file.
- Create an express server on your desired port number.
- Define API's

Reference Image:

```
EXPLORER
                                  {} package.json
                                                     JS index.js
✓ SHOPEZ
                                  server > JS index.js > ...
                                         import express from "express";

✓ client

                                         const app = express();
  > node_modules
                                         app.use(express.json());
  JS index.js
 {} package-lock.json
                                         app.listen(3001, () => {
 {} package.json
                                          console.log("App server is running on port 3001");
                                         });
                                PS D:\shopEZ> cd server
                                ○ PS D:\shopEZ\server> node index.js
                                  App server is running on port 3001
```

2. Database Configuration:

- Set up a MongoDB database either locally or using a cloud-based MongoDB service like MongoDB Atlas or use locally with MongoDB compass.
- Create a database and define the necessary collections for admin, users, restaurants, food products, orders, and other relevant data.

Reference Video of connect node with mongoDB database:

https://drive.google.com/file/d/1cTS3 -EOAAvDctkibG5zVikrTdmoY2Ag/view?usp=sharing

Reference Article: https://www.mongodb.com/docs/atlas/tutorial/connect-to-your-cluster/

Reference Image:

```
EXPLORER
                                JS index.js
                                                .env
                 中の甘む
∨ SHOPEZ
                                server > JS index.js > ...
                                       import express from "express";

✓ client

                                       import mongoose from "mongoose";
                                       import dotenv from "dotenv";
  .env
  JS index.js
                                       dotenv.config({ path: "./.env" });
  {} package-lock.json
  {} package.json
                                       const app = express();
                                       app.use(express.json());
                                       app.use(cors());
                                       app.listen(3001, () => {
                                         console.log("App server is running on port 3001");
                                       const MongoUri = process.env.DRIVER_LINK;
                                       const connectToMongo = async () => {
                                           await mongoose.connect(MongoUri);
                                           console.log("Connected to your MongoDB database successfully");
                                            console.log(error.message);
                                       connectToMongo();
                               PS D:\shopEZ> cd server

    PS D:\shopEZ\server> node index.js

                                 App server is running on port 3001
                                 bad auth : authentication failed
                               ○ PS D:\shopEZ\server> node index.js
> OUTLINE
                                 App server is running on port 3001
 TIMELINE
                                 Connected to your MongoDB database successfully
```

3. Create Express.js Server:

- Set up an Express.js server to handle HTTP requests and serve API endpoints.
- Configure middleware such as body-parser for parsing request bodies and cors for handling cross-origin requests.

Reference Video: https://drive.google.com/file/d/1-uKMlcrok ROHyZl2vRORggrYRio2qXS/view?usp=sharing

Reference Image:

```
EXPLORER
                                 {} package.json
                                                     JS index.js
SHOPEZ
                                 server > JS index.js > ...
                                         import express from "express";

✓ client

server
 > node_modules
                                         app.use(express.json());
 JS index.is
 {} package-lock.json
                                         app.listen(3001, () => {
 {} package.json
                                          console.log("App server is running on port 3001");
                                PS D:\shopEZ> cd server
                                OPS D:\shopEZ\server> node index.js
                                  App server is running on port 3001
```

4. Define API Routes:

- Create separate route files for different API functionalities such as users, orders, and authentication.
- Define the necessary routes for listing products, handling user registration and login,managing orders, etc.
- Implement route handlers using Express.js to handle requests and interact with the database.

5. Implement Data Models:

- Define Mongoose schemas for the different data entities like products, users, and orders.
- Create corresponding Mongoose models to interact with the MongoDB database.
- Implement CRUD operations (Create, Read, Update, Delete) for each model to perform database operations.

6. User Authentication:

- Create routes and middleware for user registration, login, and logout.
- Set up authentication middleware to protect routes that require user authentication.

7. Handle new products and Orders:

• Create routes and controllers to handle new product listings, including fetching products data from the database and sending it as a response.

• Implement ordering(buy) functionality by creating routes and controllers to handle order requests, including validation and database updates.

8. Admin Functionality:

- Implement routes and controllers specific to admin functionalities such as adding products, managing user orders, etc.
- Add necessary authentication and authorization checks to ensure only authorized admins can access these routes.

9. Error Handling:

- Implement error handling middleware to catch and handle any errors that occur during the API requests.
- Return appropriate error responses with relevant error messages and HTTP status codes.

Frontend development

1. Setup React Application:

- Create a React app in the client folder.
- Install required libraries
- Create required pages and components and add routes.

2.Design UI components:

- Create Components.
- Implement layout and styling.
- Add navigation.

3.Implement frontend logic:

- Integration with API endpoints.
- Implement data binding.

Reference Article Link:

https://www.w3schools.com/react/react_getstarted.asp

Reference Image:

```
X File Edit Selection View Go Run Terminal Help
                                       client > src > JS App.js > ♦ App

∨ SHOPEZ

                                              import logo from "./logo.svg";
import "./App.css";
         > public
                                              function App() {
                                                  <div className="App">
                                                    <header className="App-header">
                                                      <img src={logo} className="App-logo" alt="logo" />
品
                                                         Edit <code>src/App.js</code> and save to reload.
돃
         logo.svg
         JS reportWebVitals.js
                                                        className="App-link"
Ø
         JS setupTests.js
                                                         target="_blank"
rel="noopener noreferrer"
        .gitignore
        {} package-lock.json
        {} package.json
                                                         Learn React
        ③ README.md
                                                       </a>
        > server
                                                     </header>
                                                                          TERMINAL
                                        Compiled successfully!
                                        You can now view client in the browser.
                                        Compiled successfully!
                                        You can now view client in the browser.
                                                            http://localhost:3000
                                          On Your Network: http://192.168.29.151:3000
(
                                        Note that the development build is not optimized.
      > OUTLINE
                                        To create a production build, use npm run build.
      > TIMELINE
      > NPM SCRIPTS
                                        webpack compiled successfully
```

Code Explanation:

Server setup:

Let us import all the required tools/libraries and connect the database.

```
JS index.js
server > JS index.js > ...
   1 import express from 'express'
       import bodyParser from 'body-parser';
       import mongoose from 'mongoose';
       import bcrypt from 'bcrypt';
       import {Admin, Cart, FoodItem, Orders, Restaurant, User } from './Schema.js'
       const app = express();
       app.use(express.json());
       app.use(bodyParser.json({limit: "30mb", extended: true}))
app.use(bodyParser.urlencoded({limit: "30mb", extended: true}));
       app.use(cors());
       const PORT = 6001;
       mongoose.connect('mongodb://localhost:27017/foodDelivery',{
           useNewUrlParser: true,
           useUnifiedTopology: true
       }).then(()=>{
```

User Authentication:

Backend

Now, here we define the functions to handle http requests from the client for authentication.

```
server > JS indexjs \times \text{ then() callback}

server > JS indexjs > \times \text{ then() callback}

server > JS indexjs > \times \text{ then() callback}

server > JS indexjs > \times \text{ then() callback}

server > JS indexjs > \times \text{ then() callback}

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server > JS indexjs > \times \text{ then() callback}

server > JS indexjs > \times \text{ then() callback}

server > JS indexjs > \text{ then() callback}

server > \text{ then() callback}

server
```

```
JS index.js X
server > 15 index.js > 10 then() callback > 10 app.post('/login') callback
          app.post('/register', async (req, res) => {
              const { username, email, usertype, password , restaurantAddress, restaurantImage} = req.body;
                   const existingUser = await User.findOne({ email });
                  if (existingUser) {
                      return res.status(400).json({ message: 'User already exists' });
                  const hashedPassword = await bcrypt.hash(password, 10);
                  if(usertype === 'restaurant'){
                      const newUser = new User({
                         username, email, usertype, password: hashedPassword, approval: 'pending'
                      const user = await newUser.save();
                      console.log(user._id);
                      const restaurant = new Restaurant({ownerId: user._id ,title: username,
                                  address: restaurantAddress, mainImg: restaurantImage, menu: []});
                      await restaurant.save();
                      return res.status(201).json(user);
                      const newUser = new User({
                         username, email, usertype, password: hashedPassword, approval: 'approved'
                       const userCreated = await newUser.save();
                      return res.status(201).json(userCreated);
                console.log(error);
                return res.status(500).json({ message: 'Server Error' });
```

Frontend

Login:

```
JS GeneralContext.js U X
client > src > context > JS GeneralContext.js > [∅] GeneralContextProvider > [∅] register > 😚 then() callback
         const login = async () =>{
             const loginInputs = {email, password}
  await axios.post('http://localhost:6001/login', loginInputs)
                .then( async (res)=>{
                 localStorage.setItem('userId', res.data._id);
                   localStorage.setItem('userType', res.data.usertype);
                    localStorage.setItem('username', res.data.username);
                    localStorage.setItem('email', res.data.email);
                    if(res.data.usertype === 'customer'){
                        navigate('/');
                    } else if(res.data.usertype === 'admin'){
                       navigate('/admin');
                  }).catch((err) =>{
                   alert("login failed!!");
                   console.log(err);
                  console.log(err);
```

Logout:

Register:

```
JS GeneralContext.js U X
client > src > context > JS GeneralContext.js > [ GeneralContextProvider > [ In Ingolution | GeneralContextProvider > [ Ingolu
                                   const inputs = {username, email, usertype, password, restaurantAddress, restaurantImage};
                                   const register = async () =>{
                                                            await axios.post('http://localhost:6001/register', inputs)
                                                             .then( async (res)=>{
                                                                             localStorage.setItem('userId', res.data._id);
                                                                           localStorage.setItem('userType', res.data.usertype);
localStorage.setItem('username', res.data.username);
localStorage.setItem('email', res.data.email);
                                                                             if(res.data.usertype === 'customer'){
                                                                                            navigate('/');
                                                                              } else if(res.data.usertype === 'admin'){
                                                                                           navigate('/admin');
                                                                              } else if(res.data.usertype === 'restaurant'){
                                                                                             navigate('/restaurant');
                                                             }).catch((err) =>{
                                                                             alert("registration failed!!");
                                                                             console.log(err);
                                                            console.log(err);
```

All Products (User):

Frontend

In the home page, we'll fetch all the products available in the platform along with the filters.

Fetching food items:

```
🥸 IndividualRestaurant.jsx 4, U 🗶
client > src > pages > customer > 🌼 IndividualRestaurant.jsx > 🕪 IndividualRestaurant > 🕪 handleCategoryCheckBox
        const fetchRestaurants = async() =>{
         await axios.get(`http://localhost:6001/fetch-restaurant/${id}`).then(
           (response)=>{
              setRestaurant(response.data);
             console.log(response.data)
         ).catch((err)=>{
             console.log(err);
        const fetchCategories = async () =>{
         await axios.get('http://localhost:6001/fetch-categories').then(
           (response)=>{
              setAvailableCategories(response.data);
        const fetchItems = async () =>{
         await axios.get(`http://localhost:6001/fetch-items`).then(
           (response)=>{
             setItems(response.data);
              setVisibleItems(response.data);
```

Filtering products:

```
client > src > components > 

Products.jsx > 

Products > 

useEffect() caliback
              const [sortFilter, setSortFilter] = useState('popularity');
               const [categoryFilter, setCategoryFilter] = useState([]);
const [genderFilter, setGenderFilter] = useState([]);
               const handleCategoryCheckBox = (e) =>{
                 const value = e.target.value;
if(e.target.checked){
                    setCategoryFilter([...categoryFilter, value]);
                       setCategoryFilter(categoryFilter.filter(size=> size !== value));
               const handleGenderCheckBox = (e) =>{
                const value = e.target.value;
if(e.target.checked){
                       setGenderFilter([...genderFilter, value]);
                       setGenderFilter(genderFilter.filter(size=> size !== value));
               const handleSortFilterChange = (e) =>{
                 const value = e.target.value;
setSortFilter(value);
                if(value === 'low-price'){
    setVisibleProducts(visibleProducts.sort((a,b)=> a.price - b.price))
                 ) else if (value === 'high-price'){
                      setVisibleProducts(visibleProducts.sort((a,b)=> b.price - a.price))
                       setVisibleProducts(visibleProducts.sort((a,b)=> b.discount - a.discount))
                      if (categoryFilter.length > 0 && genderFilter.length > 0){
    setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category) && genderFilter.includes(product.gender) ));
}else if(categoryFilter.length === 0 && genderFilter.length > 0){
    setVisibleProducts(products.filter(product=> genderFilter.includes(product.gender) ));
                       } else if(categoryFilter.length > 0 && genderFilter.length === 0){
                            setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category)));
                           setVisibleProducts(products);
               [], [categoryFilter, genderFilter])
```

Backend

In the backend, we fetch all the products and then filter them on the client side.

```
server > J5 index.js > ② then() callback > ② app.get('/fetch-banner') callback

100
101
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103
app.get('/fetch-products', async(req, res)=>{
    try{
        const products = await Product.find();
        res.json(products);

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} catch(err){
        res.status(500).json({ message: 'Error occured' });
111
})
```

Add product to cart:

Frontend

Here, we can add the product to the cart and later can buy them.

Backend

Add product to cart:

Order products:

Now, from the cart, let's place the order

Frontend

```
🛱 Cart.jsx 2, U 🗙
client > src > pages > customer > 🔮 Cart.jsx > 🕪 Cart
       const placeOrder = async() =>{
         if(cart.length > 0){
             await axios.post('http://localhost:6001/place-cart-order', {userId, name,
                                  mobile, email, address, pincode, paymentMethod,
                                  orderDate: new Date()}).then(
               (response)=>{
                 alert('Order placed!!');
                 setName('');
                 setMobile('');
                 setEmail('');
                 setAddress('');
                 setPincode('');
                 setPaymentMethod('');
                 navigate('/profile');
```

Backend

In the backend, on receiving the request from the client, we then place the order for the products in the cart with the specific user Id.

```
JS index.js
server > JS index.js > 分 then() callback > 分 app.listen() callback
       app.post('/place-cart-order', async(req, res)=>{
           const {userId, name, mobile, email, address, pincode,
                        paymentMethod, orderDate} = req.body;
           try{
               const cartItems = await Cart.find({userId});
               cartItems.map(async (item)=>{
                    const newOrder = new Orders({userId, name, email,
                                mobile, address, pincode, paymentMethod,
                                orderDate, restaurantId: item.restaurantId,
                                restaurantName: item.restaurantName,
                                foodItemId: item.foodItemId, foodItemName: item.foodItemName,
                                foodItemImg: item.foodItemImg, quantity: item.quantity,
                                price: item.price, discount: item.discount})
                    await newOrder.save();
                    await Cart.deleteOne({_id: item._id})
               res.json({message: 'Order placed'});
           }catch(err){
               res.status(500).json({message: "Error occured"});
```

Add new product:

Here, in the admin dashboard, we will add a new product.

Frontend:

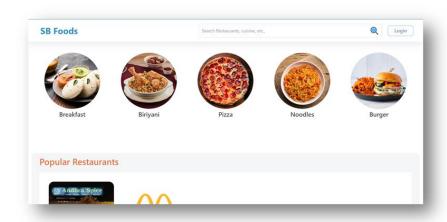
Backend:

```
JS index.js
          // Add new product
          productNewCategory, productPrice, productDiscount} = req.body;
                  if(productMenuCategory === 'new category'){
    const admin = await Admin.findOne();
                      admin.categories.push(productNewCategory);
                      await admin.save();
                      category: productCategory, menuCategory: productNewCategory,
                                 price: productPrice, discount: productDiscount, rating: 0});
                      await newProduct.save();
const restaurant = await Restaurant.findById(restaurantId);
                      restaurant.menu.push(productNewCategory);
                      await restaurant.save();
                      const newProduct = new FoodItem({restaurantId, title: productName,
                                 description: productDescription, itemImg: productMainImg,
                                 category: productCategory, menuCategory: productMenuCategory,
price: productPrice, discount: productDiscount, rating: 0});
                      await newProduct.save();
                  res.json({message: "product added!!"});
                  res.status(500).json({message: "Error occured"});
```

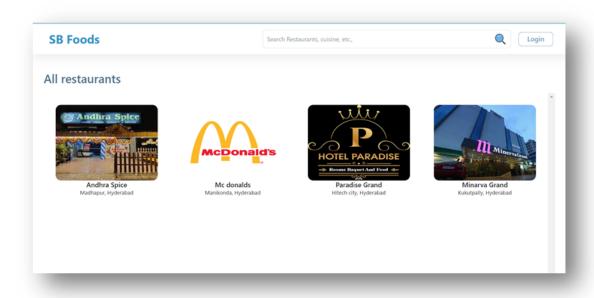
Along with this, implement additional features to view all orders, products, etc., in the admin dashboard.

Project Implementation & Execution

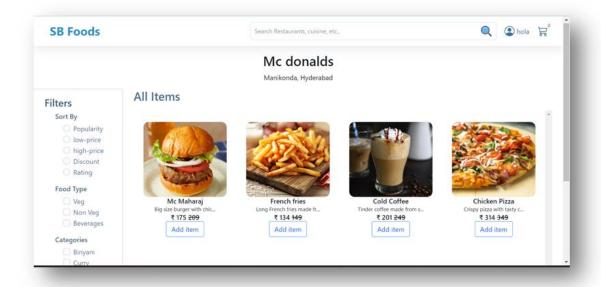
Landing page



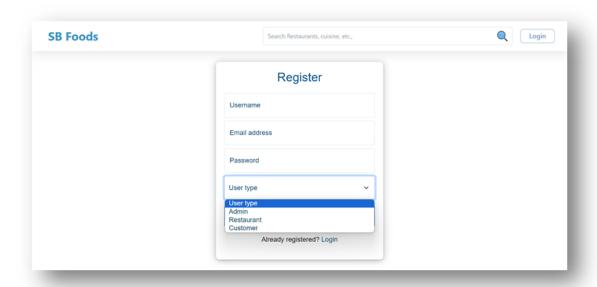
Restaurants



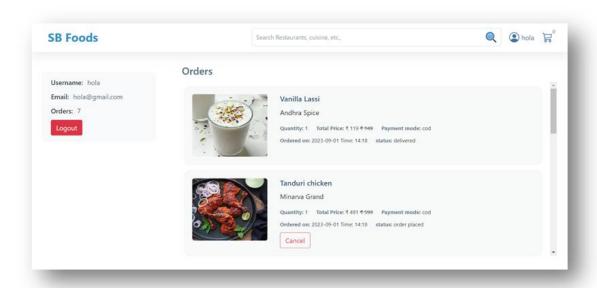
Restaurant Menu



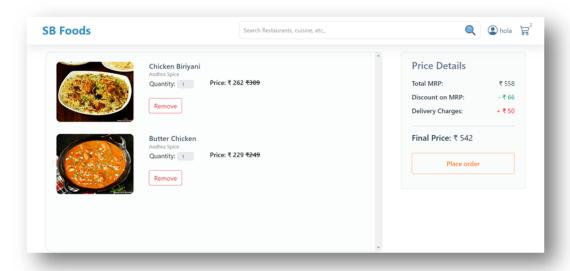
Authentication



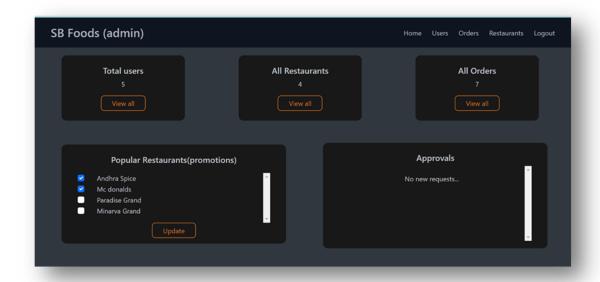
User Profile



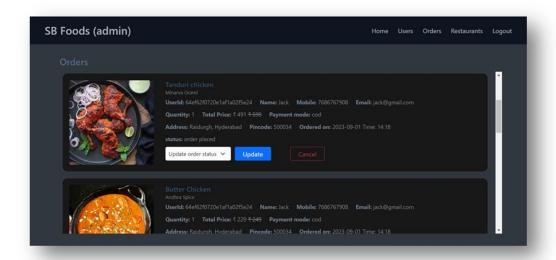
Cart



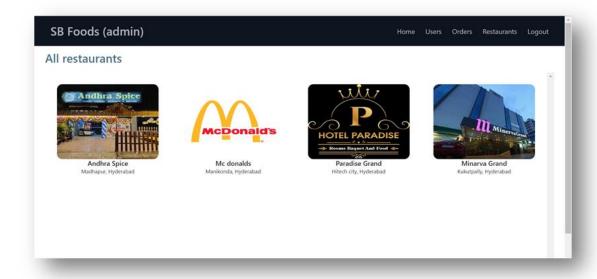
Admin dashboard



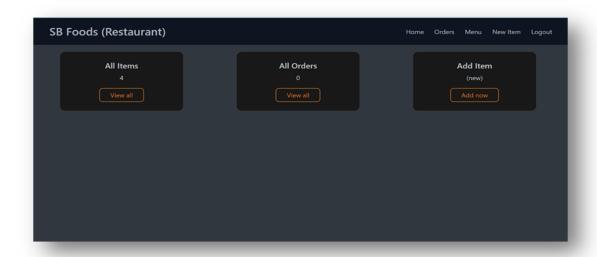
· All Orders



All restaurants



· Restaurant dashboard



· New Item

