

OrderOnTheGo: Your On-Demand Food Ordering Solution

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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.

SCENARIO:

Late-Night Craving Resolution

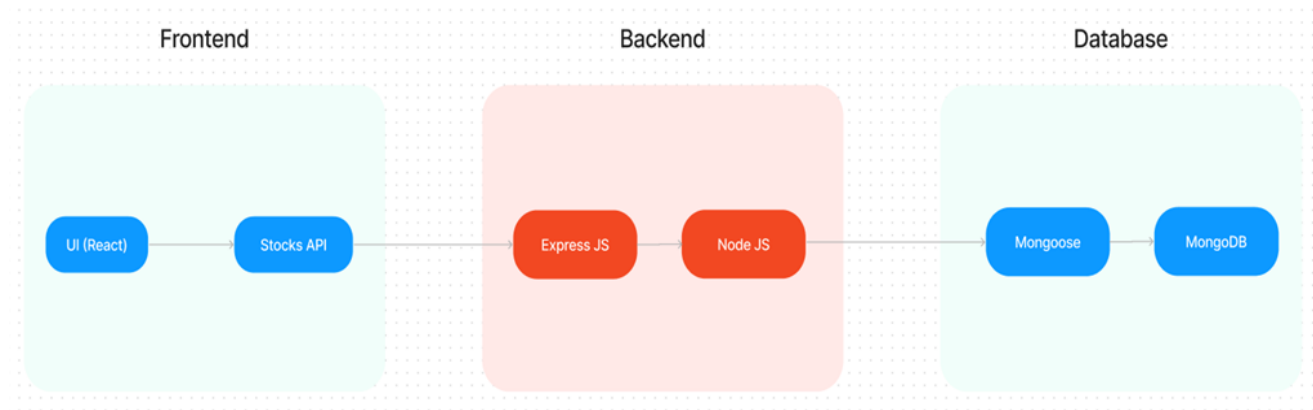
Meet Lisa, a college student burning the midnight oil to finish her assignment. As the clock strikes midnight, her stomach grumbles, reminding her that she skipped dinner. Lisa doesn't want to interrupt her workflow by cooking, nor does she have the energy to venture outside in search of food.

Solution with Food Ordering App:

1. Lisa opens the Food Ordering App on her smartphone and navigates to the late-night delivery section, where she finds a variety of eateries still open for orders.
2. She scrolls through the options, browsing menus and checking reviews until she spots her favorite local diner offering comfort food classics.
3. Lisa selects a hearty bowl of chicken noodle soup and a side of garlic bread, craving warmth and satisfaction in each bite.
4. With a few taps, she adds the items to her cart, specifies her delivery address, and chooses her preferred payment method.
5. Lisa double-checks her order details on the confirmation page, ensuring everything looks correct, before tapping the "Place Order" button.
6. Within minutes, she receives a notification confirming her order and estimated delivery time, allowing her to continue working with peace of mind.
7. As promised, the delivery arrives promptly at her doorstep, and Lisa eagerly digs into her piping hot meal, grateful for the convenience and comfort provided by the Food Ordering App during her late-night study session.

This scenario illustrates how a Food Ordering App caters to users' needs, even during unconventional hours, by offering a seamless and convenient solution for satisfying late-night cravings without compromising on quality or convenience.

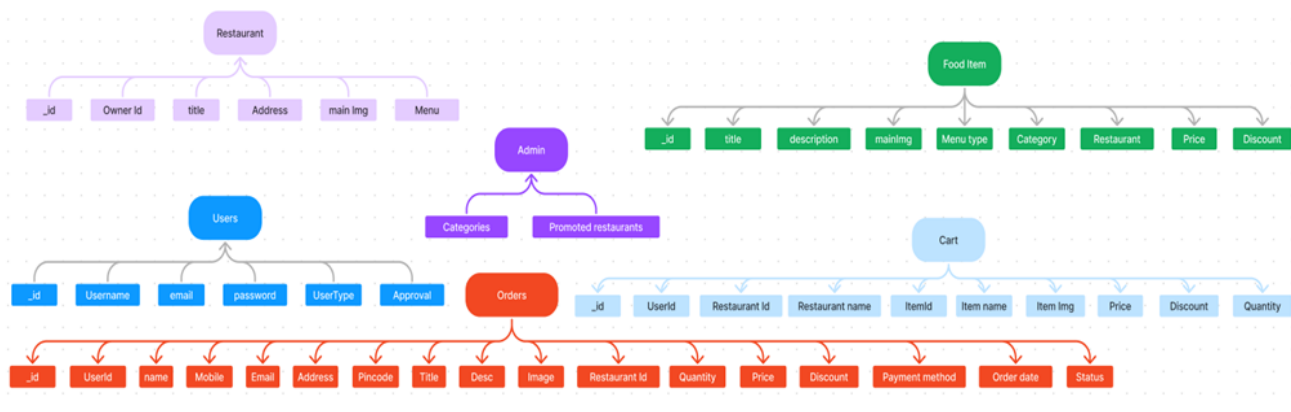
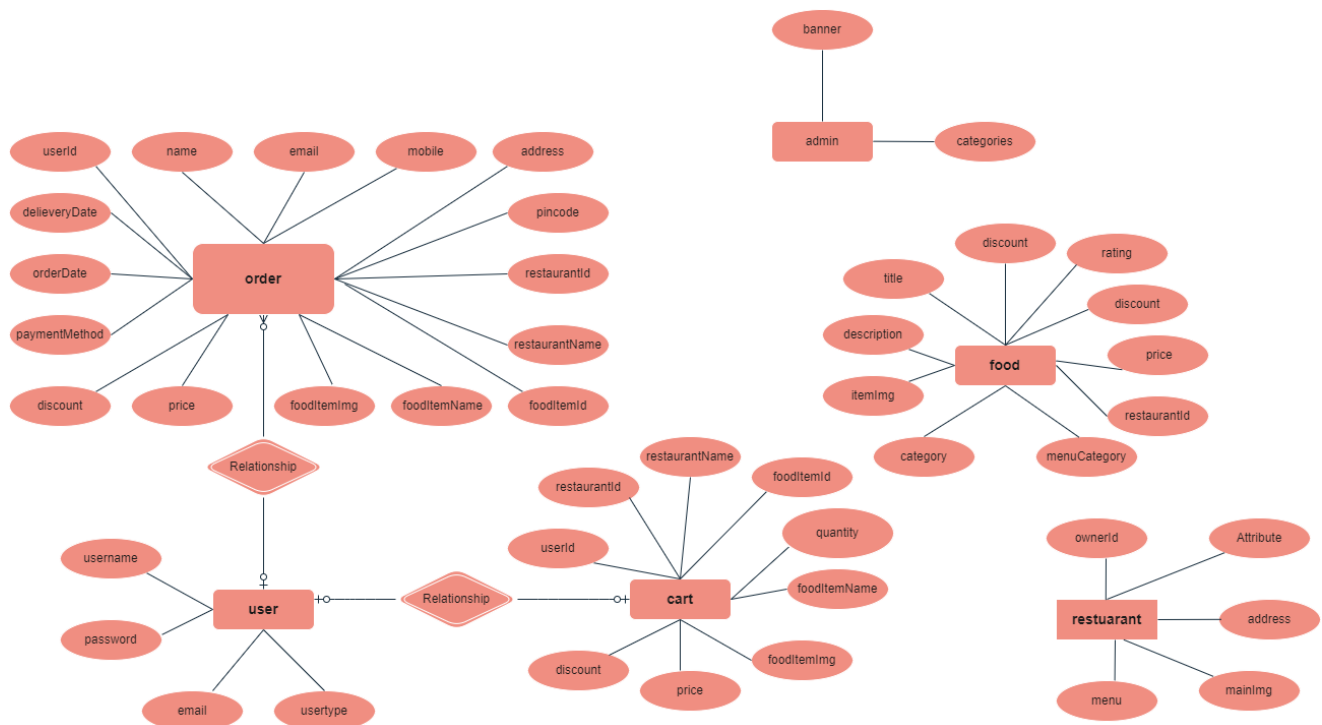
TECHNICAL ARCHITECTURE:



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.

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.

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://git-scm.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-varadhan-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.

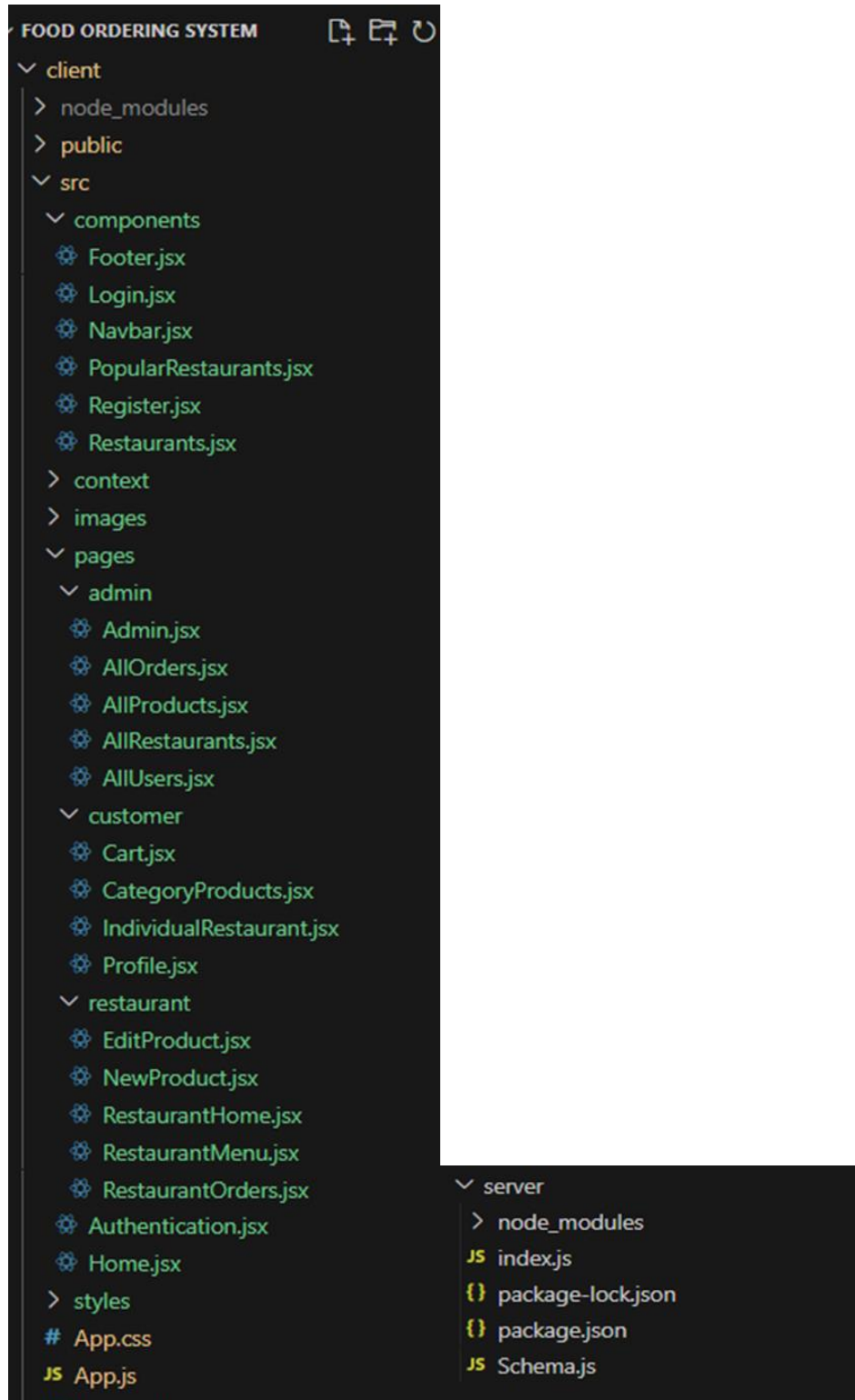
2. Restaurant Flow:

- 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.

Project Structure



This structure assumes a React app and follows a modular approach. Here's a brief explanation of the main directories and files:

- src/components: Contains components related to the application such as, register, login, home, etc.,
- src/pages has the files for all the pages in the application.

Project Setup And Configuration

Install required tools and software:

- Node.js.

Reference Article: <https://www.geeksforgeeks.org/installation-of-node-js-on-windows/>

- Git.

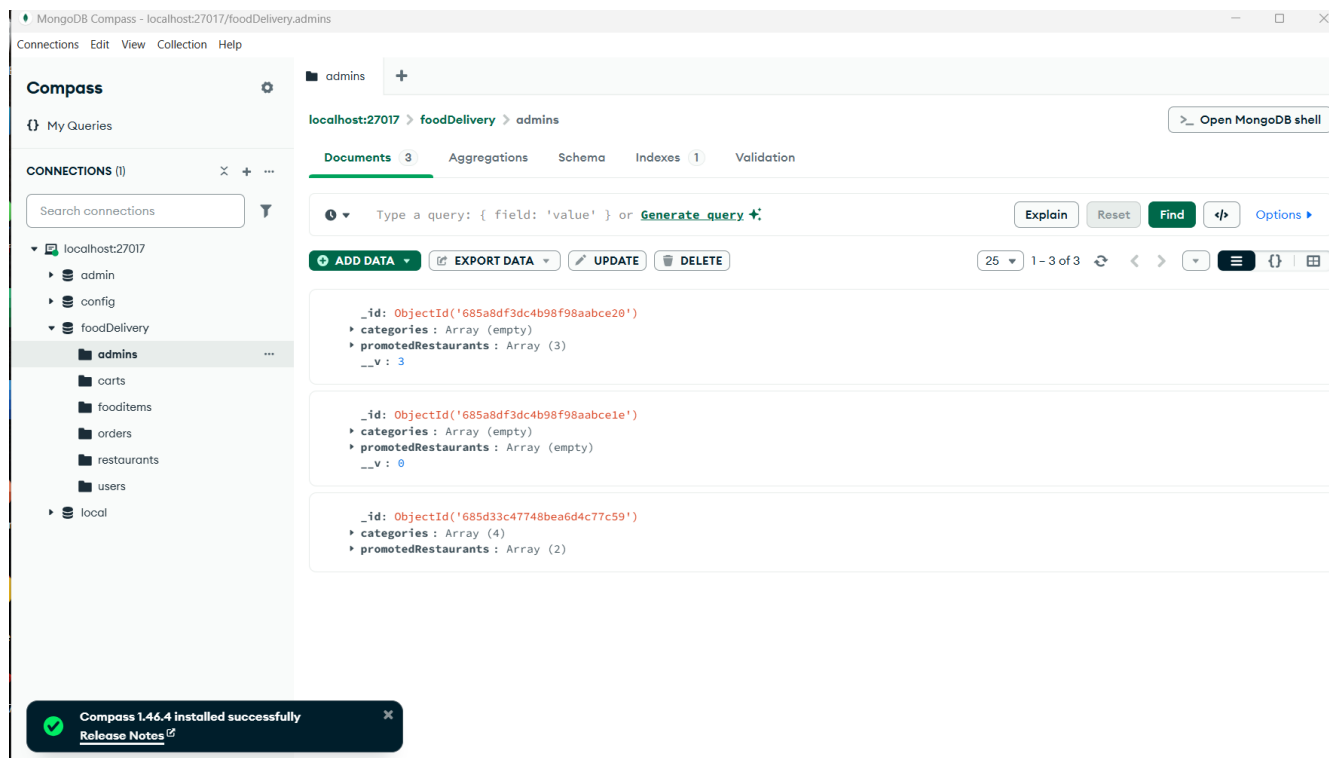
Reference Article: <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>

Create project folders and files:

- Client folders.
- Server folders

Create database in cloud

- Install Mongoose.
- Create database connection.



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
server > JS Schema.js > [0] orderSchema
1  import mongoose from "mongoose";
2
3  const userSchema = new mongoose.Schema({
4    username: {type: String},
5    password: {type: String},
6    email: {type: String},
7    usertype: {type: String},
8    approval: {type: String}
9  });
10
11 const adminSchema = new mongoose.Schema({
12   categories: {type: Array},
13   promotedRestaurants: []
14 });
15
16 const restaurantSchema = new mongoose.Schema({
17   ownerId: {type: String},
18   title: {type: String},
19   address: {type: String},
20   mainImg: {type: String},
21   menu: {type: Array, default: []}
22 });
23
24 const foodItemSchema = new mongoose.Schema({
25   title: {type: String},
26   description: {type: String},
27   itemImg: {type: String},
28   category: {type: String}, //veg or non-veg or beverage
29   menuCategory: {type: String},
30   restaurantId: {type: String},
31   price: {type: Number},
32   discount: {type: Number},
33   rating: {type: Number}
34 });
35
```

```
36 const orderSchema = new mongoose.Schema({
37   userId: {type: String},
38   name: {type: String},
39   email: {type: String},
40   mobile: {type: String},
41   address: {type: String},
42   pincode: {type: String},
43   restaurantId: {type: String},
44   restaurantName: {type: String},
45   foodItemId: {type: String},
46   foodItemName: {type: String},
47   foodItemImg: {type: String},
48   quantity: {type: Number},
49   price: {type: Number},
50   discount: {type: Number},
51   paymentMethod: {type: String},
52   orderDate: {type: String},
53   orderStatus: {type: String, default: 'order placed'}
54 })
55
56 const cartSchema = new mongoose.Schema({
57   userId: {type: String},
58   restaurantId: {type: String},
59   restaurantName: {type: String},
60   foodItemId: {type: String},
61   foodItemName: {type: String},
62   foodItemImg: {type: String},
63   quantity: {type: Number},
64   price: {type: Number},
65   discount: {type: Number}
66 })
67
68 export const User = mongoose.model('users', userSchema);
69 export const Admin = mongoose.model('admin', adminSchema);
70 export const Restaurant = mongoose.model('restaurant', restaurantSchema);
71 export const FoodItem = mongoose.model('foodItem', foodItemSchema);
72 export const Orders = mongoose.model('orders', orderSchema);
73 export const Cart = mongoose.model('cart', cartSchema);
74
```

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.

1. Setup express server:

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

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.

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_R0HyZl2vRORggrYRio2qXS/view?usp=sharing

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

Code Explanation:

Server setup:

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

```
JS index.js X
server > JS index.js > ...
1  import express from 'express'
2  import bodyParser from 'body-parser';
3  import mongoose from 'mongoose';
4  import cors from 'cors';
5  import bcrypt from 'bcrypt';
6  import {Admin, Cart, FoodItem, Orders, Restaurant, User } from './Schema.js'
7
8
9  const app = express();
10
11  app.use(express.json());
12  app.use(bodyParser.json({limit: "30mb", extended: true}))
13  app.use(bodyParser.urlencoded({limit: "30mb", extended: true}));
14  app.use(cors());
15
16  const PORT = 6001;
17
18  mongoose.connect('mongodb://localhost:27017/foodDelivery',{
19    useNewUrlParser: true,
20    useUnifiedTopology: true
21  }).then(()=>{
22
```

User Authentication:

- Backend

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

```
JS index.js X
server > JS index.js > then() callback
56 app.post('/login', async (req, res) => {
57   const { email, password } = req.body;
58   try {
59     const user = await User.findOne({ email });
60
61     if (!user) {
62       return res.status(401).json({ message: 'Invalid email or password' });
63     }
64     const isMatch = await bcrypt.compare(password, user.password);
65     if (!isMatch) {
66       return res.status(401).json({ message: 'Invalid email or password' });
67     } else {
68       return res.json(user);
69     }
70   } catch (error) {
71     console.log(error);
72     return res.status(500).json({ message: 'Server Error' });
73   }
74 });
75
```

```
JS index.js X
server > JS index.js > then() callback > app.post('/login') callback
23 app.post('/register', async (req, res) => {
24   const { username, email, usertype, password, restaurantAddress, restaurantImage } = req.body;
25   try {
26     const existingUser = await User.findOne({ email });
27     if (existingUser) {
28       return res.status(400).json({ message: 'User already exists' });
29     }
30     const hashedPassword = await bcrypt.hash(password, 10);
31     if(usertype === 'restaurant'){
32       const newUser = new User({
33         username, email, usertype, password: hashedPassword, approval: 'pending'
34       });
35       const user = await newUser.save();
36       console.log(user._id);
37       const restaurant = new Restaurant({ownerId: user._id ,title: username,
38         address: restaurantAddress, mainImg: restaurantImage, menu: []});
39       await restaurant.save();
40       return res.status(201).json(user);
41     } else{
42       const newUser = new User({
43         username, email, usertype, password: hashedPassword, approval: 'approved'
44       });
45       const userCreated = await newUser.save();
46       return res.status(201).json(userCreated);
47     }
48   } catch (error) {
49     console.log(error);
50     return res.status(500).json({ message: 'Server Error' });
51   }
52 });
53
```

Frontend

Login:

```
JS GeneralContext.js U X
client > src > context > JS GeneralContext.js > [⌚] GeneralContextProvider > [⌚] register > [⌚] then() callback
46 const login = async () =>{
47   try{
48     const loginInputs = {email, password}
49     await axios.post('http://localhost:6001/login', loginInputs)
50     .then( async (res)=>{
51
52       localStorage.setItem('userId', res.data._id);
53       localStorage.setItem('userType', res.data.usertype);
54       localStorage.setItem('username', res.data.username);
55       localStorage.setItem('email', res.data.email);
56       if(res.data.usertype === 'customer'){
57         | navigate('/');
58       } else if(res.data.usertype === 'admin'){
59         | navigate('/admin');
60       }
61     }).catch((err) =>{
62       alert("login failed!!");
63       console.log(err);
64     });
65   }catch(err){
66     console.log(err);
67   }
68 }
69
```

Logout:

```
GeneralContext.jsx U X
client > src > context > GeneralContext.jsx > [⌚] GeneralContextProvider > [⌚] login >
72 /2
73 const logout = async () =>{
74
75   localStorage.clear();
76   for (let key in localStorage) {
77     if (localStorage.hasOwnProperty(key)) {
78       | localStorage.removeItem(key);
79     }
80   }
81
82   navigate('/');
83 }
84
85
```

Register:

```

JS GeneralContext.js U X
client > src > context > JS GeneralContext.js > [?] GeneralContextProvider > [?] logout
75
76 const inputs = {username, email, usertype, password, restaurantAddress, restaurantImage};
77
78 const register = async () =>{
79   try{
80     await axios.post('http://localhost:6001/register', inputs)
81     .then( async (res)=>{
82       localStorage.setItem('userId', res.data._id);
83       localStorage.setItem('userType', res.data.usertype);
84       localStorage.setItem('username', res.data.username);
85       localStorage.setItem('email', res.data.email);
86
87       if(res.data.usertype === 'customer'){
88         navigate('/');
89       } else if(res.data.usertype === 'admin'){
90         navigate('/admin');
91       } else if(res.data.usertype === 'restaurant'){
92         navigate('/restaurant');
93       }
94     }).catch((err) =>{
95       alert("registration failed!!");
96       console.log(err);
97     });
98   }catch(err){
99     console.log(err);
100   }
101 }

```

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 X
client > src > pages > customer > IndividualRestaurant.jsx > [?] IndividualRestaurant > [?] handleCategoryCheckBox
33
34 const fetchRestaurants = async () =>{
35   await axios.get(`http://localhost:6001/fetch-restaurant/${id}`).then(
36     (response)=>{
37       setRestaurant(response.data);
38       console.log(response.data)
39     }
40   ).catch((err)=>{
41     console.log(err);
42   })
43 }
44
45 const fetchCategories = async () =>{
46   await axios.get('http://localhost:6001/fetch-categories').then(
47     (response)=>{
48       setAvailableCategories(response.data);
49     }
50   )
51 }
52
53 const fetchItems = async () =>{
54   await axios.get('http://localhost:6001/fetch-items').then(
55     (response)=>{
56       setItems(response.data);
57       setVisibleItems(response.data);
58     }
59   )
60 }

```

Filtering products:

```
Products.jsx 2, U X
client > src > components > Products.jsx > (0) Products > useEffect() callback
38  const [sortFilter, setSortFilter] = useState('popularity');
39  const [categoryFilter, setCategoryFilter] = useState([]);
40  const [genderFilter, setGenderFilter] = useState([]);
41
42  const handleCategoryCheckBox = (e) =>{
43    const value = e.target.value;
44    if(e.target.checked){
45      setCategoryFilter([...categoryFilter, value]);
46    }else{
47      setCategoryFilter(categoryFilter.filter(size=> size !== value));
48    }
49  }
50
51  const handleGenderCheckBox = (e) =>{
52    const value = e.target.value;
53    if(e.target.checked){
54      setGenderFilter([...genderFilter, value]);
55    }else{
56      setGenderFilter(genderFilter.filter(size=> size !== value));
57    }
58  }
59
60  const handleSortFilterChange = (e) =>{
61    const value = e.target.value;
62    setSortFilter(value);
63    if(value === 'low-price'){
64      setVisibleProducts(visibleProducts.sort((a,b)=> a.price - b.price))
65    } else if (value === 'high-price'){
66      setVisibleProducts(visibleProducts.sort((a,b)=> b.price - a.price))
67    }else if (value === 'discount'){
68      setVisibleProducts(visibleProducts.sort((a,b)=> b.discount - a.discount))
69    }
70  }
71
72  useEffect(()=>{
73
74    if (categoryFilter.length > 0 && genderFilter.length > 0){
75      setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category) && genderFilter.includes(product.gender) ));
76    }else if(categoryFilter.length === 0 && genderfilter.length > 0){
77      setVisibleProducts(products.filter(product=> genderFilter.includes(product.gender) ));
78    } else if(categoryFilter.length > 0 && genderFilter.length === 0){
79      setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category)));
80    }else{
81      setVisibleProducts(products);
82    }
83
84    [categoryFilter, genderFilter])
85
86  }
```

Backend

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

```
JS index.js X
server > JS index.js > then() callback > app.get('/fetch-banner') callback
100
101  // fetch products
102
103  app.get('/fetch-products', async(req, res)=>{
104    try{
105      const products = await Product.find();
106      res.json(products);
107    }catch(err){
108      res.status(500).json({ message: 'Error occurred' });
109    }
110  })
111
```


Add product to cart:

- **Frontend**

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

```
IndividualRestaurant.jsx U X
client > src > pages > customer > IndividualRestaurant.jsx > [e] IndividualRestaurant
114   const handleAddToCart = async(foodItemId, foodItemName, restaurantId,
115                                   foodItemImg, price, discount) =>{
116     await axios.post('http://localhost:6001/add-to-cart', {userId, foodItemId,
117                                                             foodItemName, restaurantId, foodItemImg,
118                                                             price, discount, quantity}).then(
119       (response)=>{
120         alert("product added to cart!!");
121         setCartItem('');
122         setQuantity(0);
123         fetchCartCount();
124       }
125     ).catch((err)=>{
126       alert("Operation failed!!");
127     })
128   }
129 }
```

- **Backend**

Add product to cart:

```
JS index.js X
server > JS index.js > then() callback > app.put('/remove-item') callback
402   // add cart item
403
404   app.post('/add-to-cart', async(req, res)=>{
405     const {userId, foodItemId, foodItemName, restaurantId,
406           foodItemImg, price, discount, quantity} = req.body
407     try{
408       const restaurant = await Restaurant.findById(restaurantId);
409       const item = new Cart({userId, foodItemId, foodItemName,
410                             restaurantId, restaurantName: restaurant.title,
411                             foodItemImg, price, discount, quantity});
412       await item.save();
413       res.json({message: 'Added to cart'});
414     }catch(err){
415       res.status(500).json({message: "Error occured"});
416     }
417   })
418 }
```

Order products:

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

Frontend

```
Cart.jsx 2, U X
client > src > pages > customer > Cart.jsx > [0] Cart

72  const placeOrder = async() =>{
73    if(cart.length > 0){
74      await axios.post('http://localhost:6001/place-cart-order', {userId, name,
75                      mobile, email, address, pincode, paymentMethod,
76                      orderDate: new Date()}).then(
77        (response)=>{
78          alert('Order placed!!');
79          setName('');
80          setMobile('');
81          setEmail('');
82          setAddress('');
83          setPincode('');
84          setPaymentMethod('');
85          navigate('/profile');
86        }
87      )
88    }
89  }
```

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 X
server > JS index.js > then() callback > app.listen() callback

435  // Order from cart
436
437  app.post('/place-cart-order', async(req, res)=>{
438    const {userId, name, mobile, email, address, pincode,
439          paymentMethod, orderDate} = req.body;
440    try{
441      const cartItems = await Cart.find({userId});
442      cartItems.map(async (item)=>{
443        const newOrder = new Orders({userId, name, email,
444                                     mobile, address, pincode, paymentMethod,
445                                     orderDate, restaurantId: item.restaurantId,
446                                     restaurantName: item.restaurantName,
447                                     foodItemId: item.foodItemId, foodItemName: item.foodItemName,
448                                     foodItemImg: item.foodItemImg, quantity: item.quantity,
449                                     price: item.price, discount: item.discount});
450        await newOrder.save();
451        await Cart.deleteOne({_id: item._id})
452      })
453      res.json({message: 'Order placed'});
454    }catch(err){
455      res.status(500).json({message: "Error occured"});
456    }
457  })
```

Add new product:

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

Frontend:

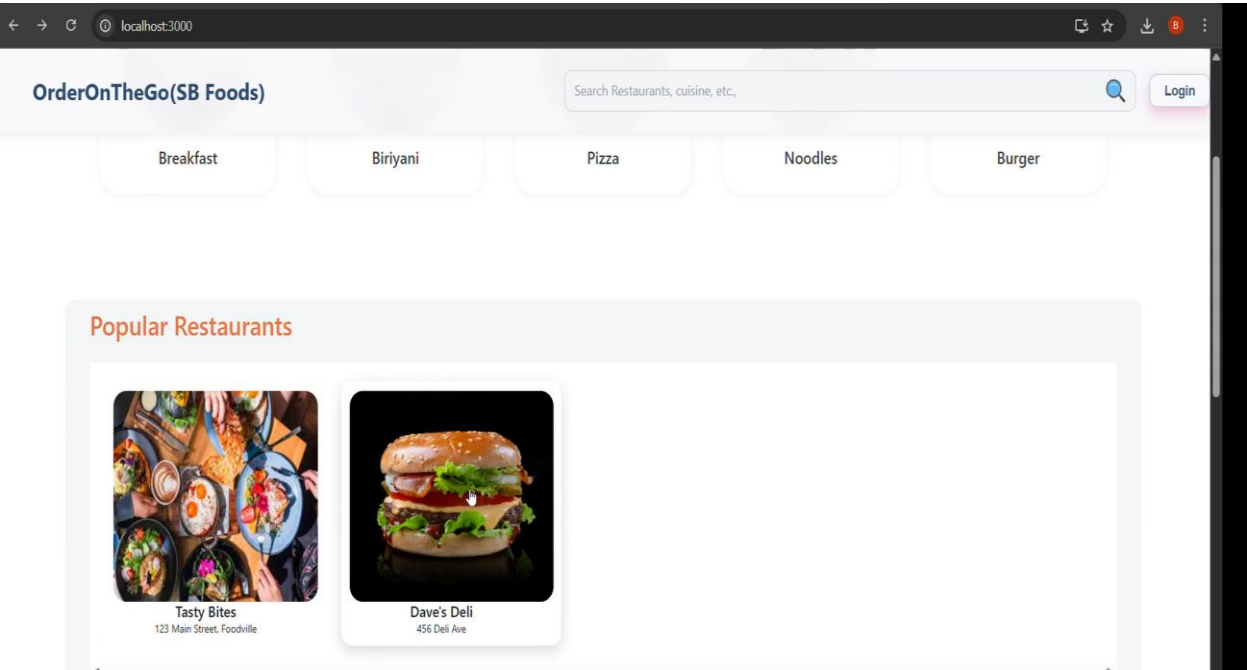
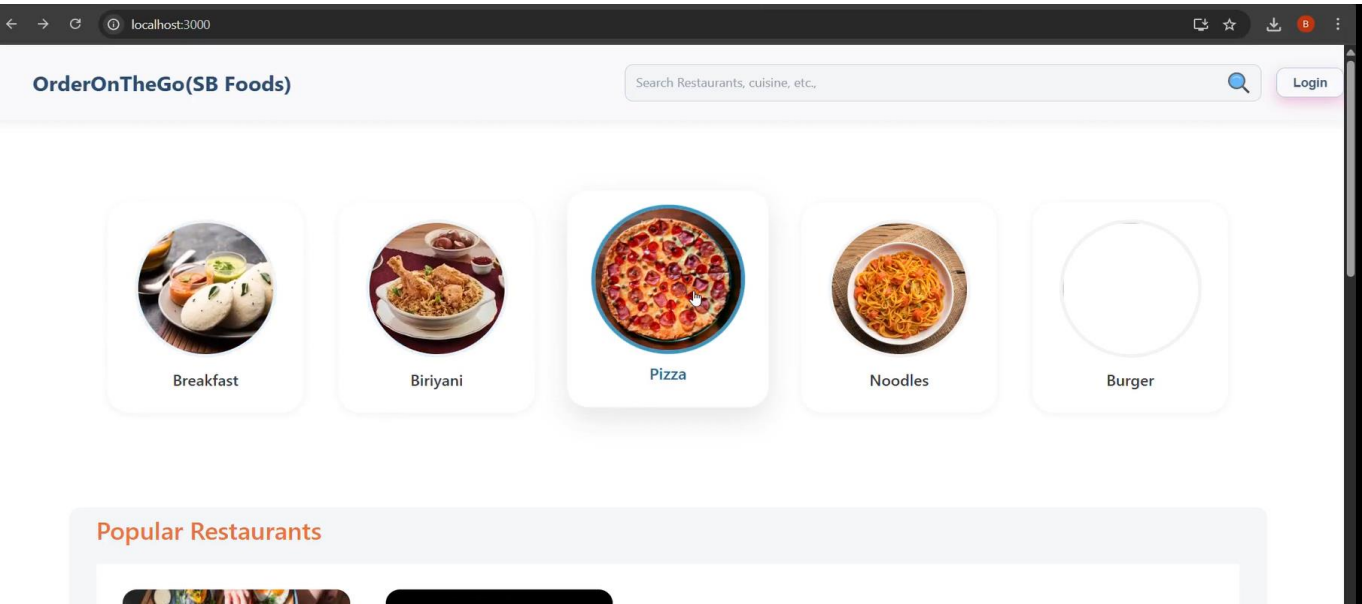
```
NewProduct.jsx 1, U X
client > src > pages > restaurant > NewProduct.jsx > NewProduct
46 const handleNewProduct = async() =>{
47   await axios.post('http://localhost:6001/add-new-product', {restaurantId: restaurant._id,
48     productName, productDescription, productMainImg, productCategory, productMenuCategory,
49     productNewCategory, productPrice, productDiscount}).then(
50     (response)=>{
51       alert("product added");
52       setProductName('');
53       setProductDescription('');
54       setProductMainImg('');
55       setProductCategory('');
56       setProductMenuCategory('');
57       setProductNewCategory('');
58       setProductPrice(0);
59       setProductDiscount(0);
60       navigate('/restaurant-menu');
61     }
62   )
63 }
64
```

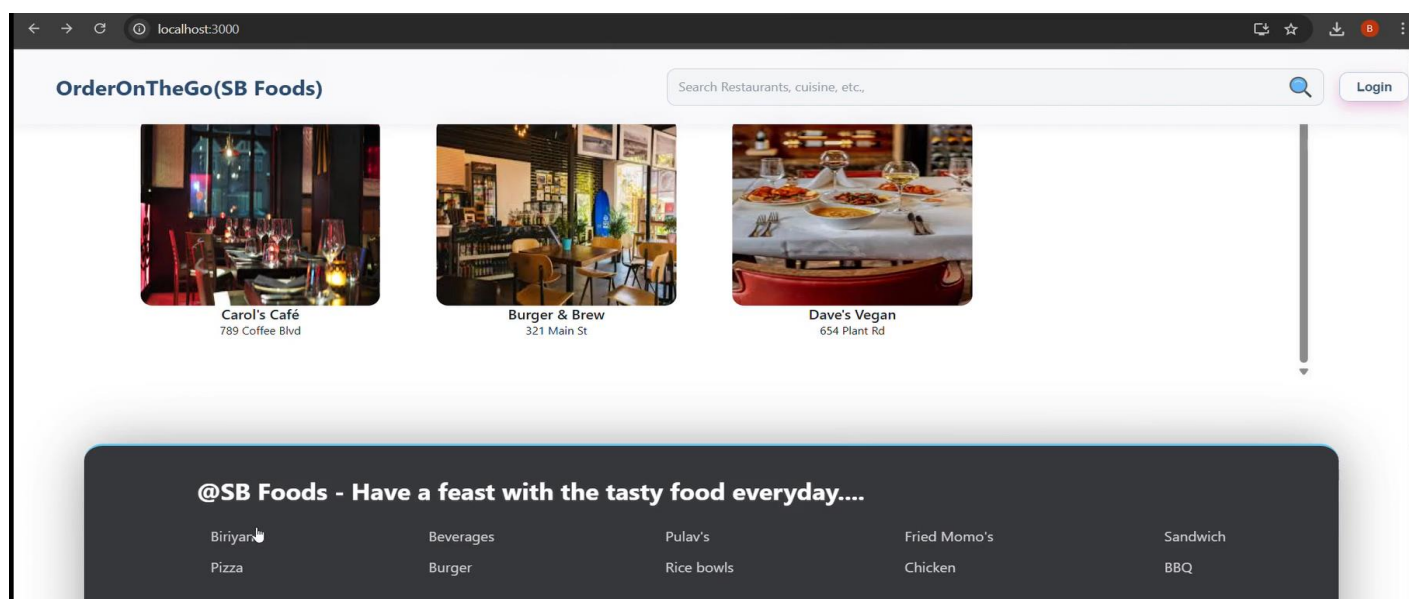
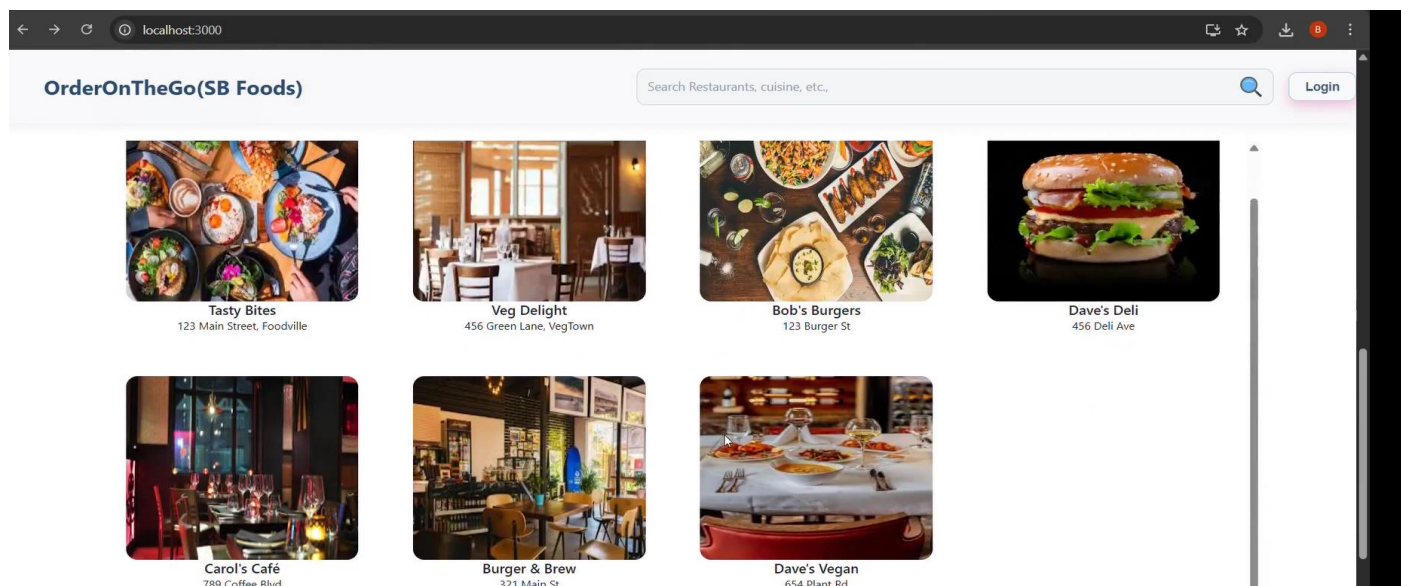
Backend:

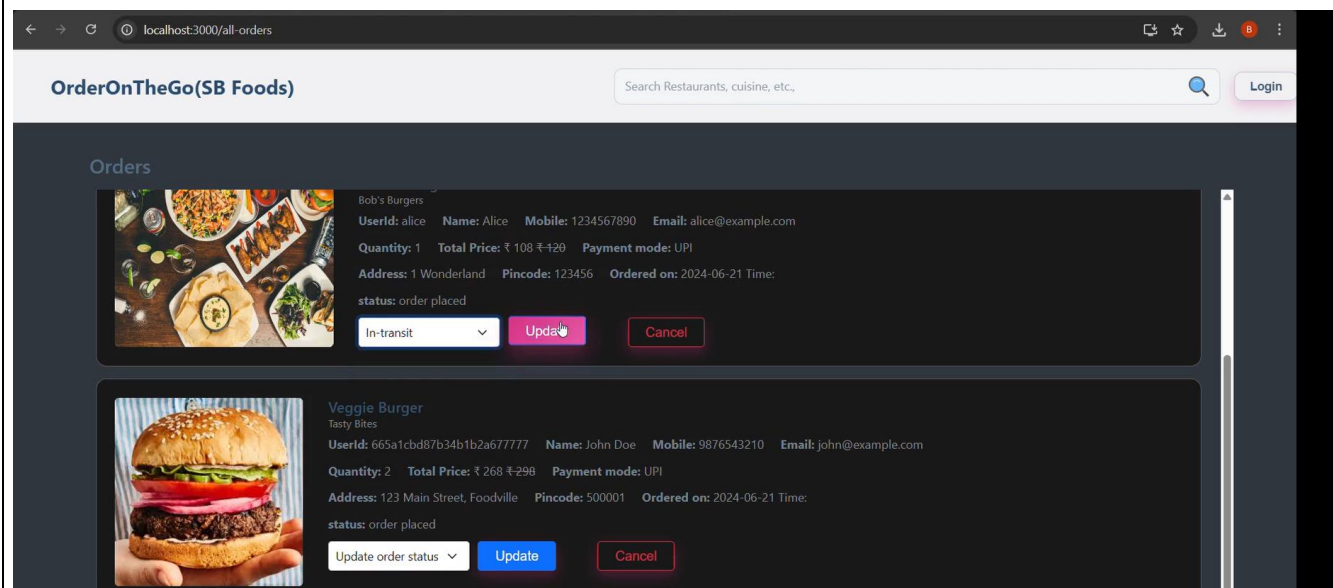
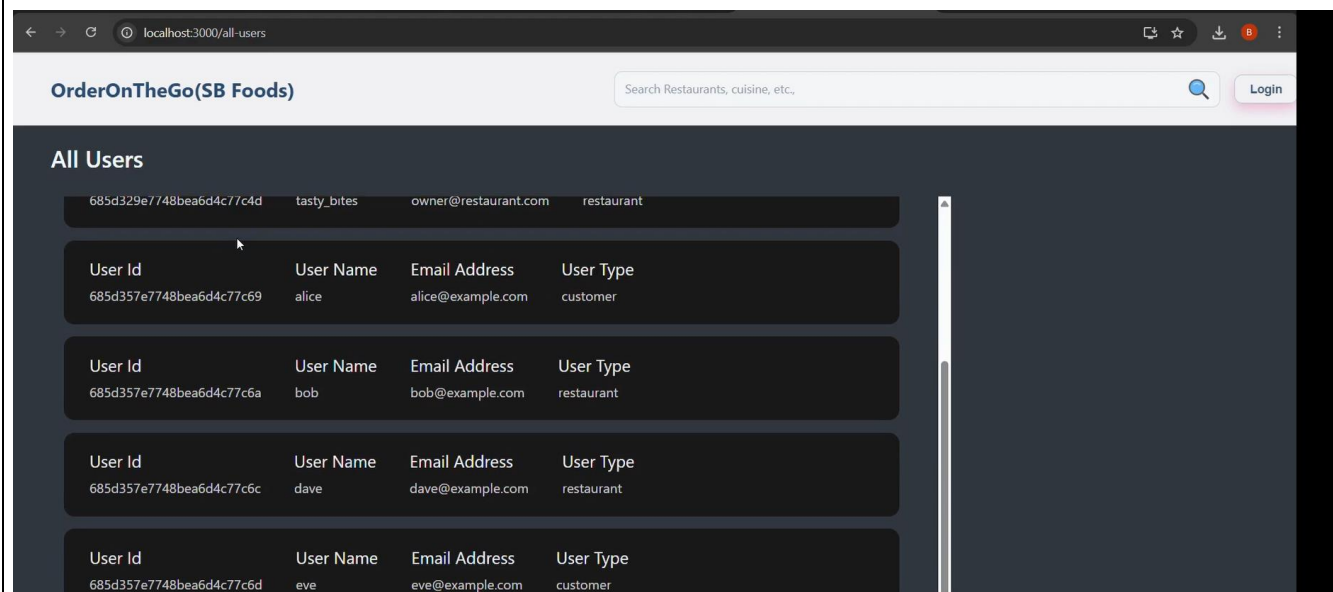
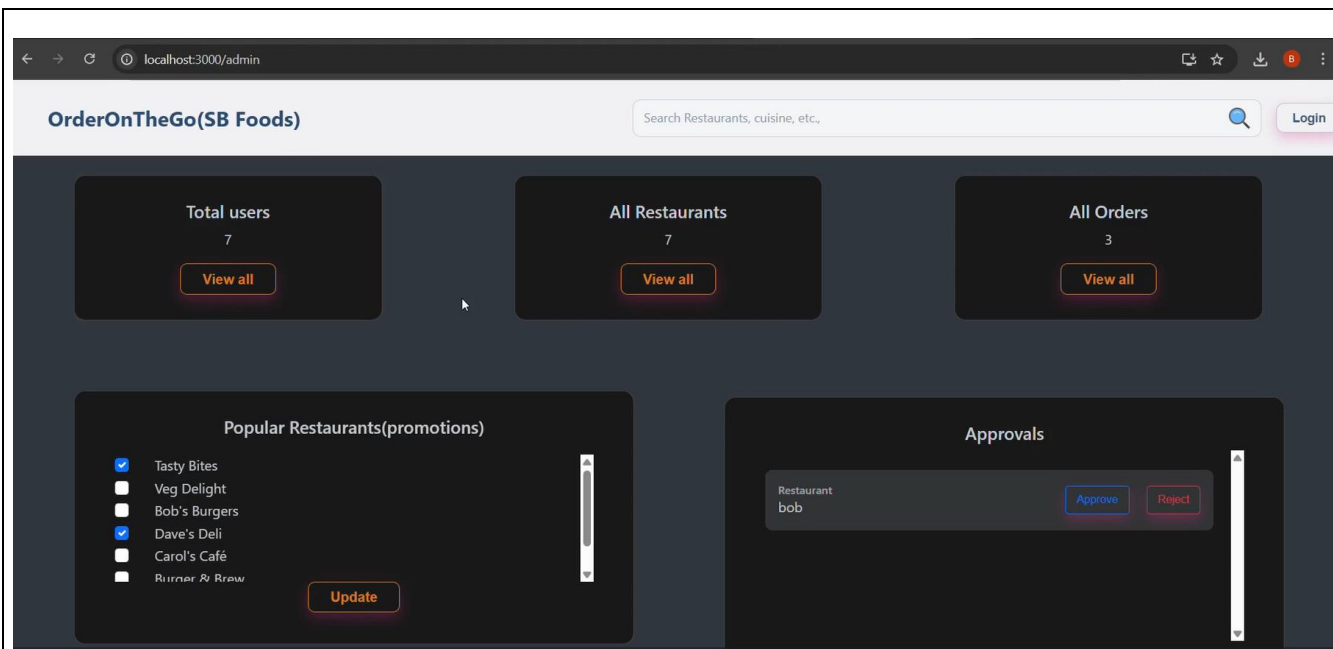
```
JS index.js X
server > JS index.js > then() callback
285 // Add new product
286 app.post('/add-new-product', async(req, res)=>{
287   const {restaurantId, productName, productDescription,
288     productMainImg, productCategory, productMenuCategory,
289     productNewCategory, productPrice, productDiscount} = req.body;
290   try{
291     if(productMenuCategory === 'new category'){
292       const admin = await Admin.findOne();
293       admin.categories.push(productNewCategory);
294       await admin.save();
295       const newProduct = new FoodItem({restaurantId, title: productName,
296         description: productDescription, itemImg: productMainImg,
297         category: productCategory, menuCategory: productNewCategory,
298         price: productPrice, discount: productDiscount, rating: 0});
299       await newProduct.save();
300       const restaurant = await Restaurant.findById(restaurantId);
301       restaurant.menu.push(productNewCategory);
302       await restaurant.save();
303     } else{
304       const newProduct = new FoodItem({restaurantId, title: productName,
305         description: productDescription, itemImg: productMainImg,
306         category: productCategory, menuCategory: productMenuCategory,
307         price: productPrice, discount: productDiscount, rating: 0});
308       await newProduct.save();
309     }
310     res.json({message: "product added!!"});
311   }catch(err){
312     res.status(500).json({message: "Error occurred"});
313   }
314 })
315
```

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

Demo vedio:
<https://drive.google.com/drive/folders/1OOS9KjxfeMRJcuTkFtbiu0xEAoSQyVV1?usp=sharing>







OrderOnTheGo(SB Foods)

Search Restaurants, cuisine, etc.,

Login

Register

Username

bavya

Email address

bavyatatineniu005@gamil.com

Password

Customer

▼

Sign up

Already registered? Login

OrderOnTheGo(SB Foods)

Search Restaurants, cuisine, etc.,

bavya

0

Username: bavya

Email: bavyatatineniu005@gamil.com

Orders: 0

Logout

Orders

OrderOnTheGo(SB Foods)

Search Restaurants, cuisine, etc.,

bavya

0

No items in the cart..

Price Details

Total MRP:

₹ 0

Discount on MRP:

- ₹ 0

Delivery Charges:

+ ₹ 0

Final Price: ₹ 0

Place order