

PROJECT DOCUMENT

OrderOnTheGo:

Your On-Demand Food Ordering Solution

Submitted by

- 1.Sripriya Akula
- 2.Poojitha Pasupuleti
- 3.Parasa Sundar Singh
- 4.Sarva Sree Lakshmi Manaswini

Team ID : LTVIP2025TMID55809



Department of Computer Science and Engineering DMS SVH College of
Engineering Machilipatnam, Krishna District,
Andhra Pradesh – 521002, India

Affiliated to: Jawaharlal Nehru Technological University, Kakinada (JNTU-K)

Submitted to



Smart
Internz



SMARTBRIDGE
Let's Bridge the Gap

Academic Year

2022 - 2026

ABSTRACT

The ssp Online Food Ordering System is designed to streamline and simplify the process of ordering food for both customers and restaurant staff. This system provides a user-friendly interface that displays an up-to-date menu with all available items, allowing customers to conveniently select multiple food items to place an order. Before completing the transaction, customers can review their order details, and upon confirmation, the system notifies them and records the order in real-time.

The order is then added to a processing queue and stored in the database, enabling restaurant staff to monitor and fulfill orders efficiently. This real-time synchronization enhances the workflow within the restaurant, improving order accuracy and service speed.

Primarily developed for the food delivery industry, the system supports restaurants and hotels in boosting their online food ordering capabilities. With just a few clicks, customers can choose their meals, and the system ensures timely and accurate delivery to their specified location. Restaurant staff benefit from an intuitive, graphical interface that simplifies order tracking and management, ultimately improving customer satisfaction and operational efficiency.

INTRODUCTION

The Online Food Ordering System can be defined as a simple and convenient way for customers to purchase food online without physically visiting a restaurant. This system is powered by the internet, which connects restaurants or food service providers directly with customers. Through this system, customers can access the restaurant's website, browse available food items, and select and purchase the items of their choice. The selected food is then delivered to the customer's location at their preferred time by a delivery person.

Payments for online orders can be made using various methods, including debit or credit cards, cash on delivery, or digital wallets. This system offers a safe and secure platform for food ordering and is rapidly transforming the operations of the food service industry.

This project proposes an Online Food Ordering System designed specifically for fast food restaurants, take-out services, or college cafeterias. However, it can be adapted for any segment of the food delivery industry. The system automates the entire order-taking process, reducing manual effort and improving efficiency for both customers and restaurant staff.

One of the key advantages of this project is its ability to significantly streamline the ordering process. When a customer visits the ordering webpage, they are presented with an interactive, real-time menu that displays all available food options, including dynamic pricing based on selected items. Once selections are made, items are added to the order, and the customer can view and modify their order at any time before final checkout. This provides instant visual confirmation and ensures a smooth, user-friendly experience.

Motivation

The motivation for designing this application came because my family is involved in the fast food business and I personally do not like waiting for long in the store or to have to call store to place an order especially during the peak lunch or dinner hours. Moreover, I value recent learning about the php Programming languages as well as seeing how powerful and dynamic they are when it comes to web designing and applications. whereas mysql database at the back-end because I found them to be extremely useful while working on the technologies.

This system specifically e made for or following issues

1. It reduce manual work.
2. The online food delivery system is overcome the problems in manual system.
3. This system is fully computerized.
4. It is user friendly.
5. Provide quickly reports.
6. Highly efficient and accurate.
7. Prevention of unauthorised access of data.
8. Automated.

Prob|Em stAtEmEnts

1. Some of the major problems reported by the customers surveyed revolved around late deliveries because of network problem
2. incorrect orders being delivered due to communication problem.
3. orders not being delivered at all, rude customer service.
4. , cold food being delivered, and the driver requiring a lot of guidance to find the delivery location.

5. Sometime payment issue is occurred.
6. Online food ordering system service now days increase your budget.
7. lack of a visual confirmation that the order was placed correctly.

Purpos E or objEctiVEs And goAlS

The proposed system is developed to manage ordering activities in fast food restaurant. It helps

to record customer submitted orders. The system should cover the following functions in order to

support the restaurant's business process for achieving the objectives:

1. To allow the customer to make order, view order and make changes before submitting their order and allow them make payment through prepayment card or credit card or debit card.
2. To provide interface that allows promotion and menu.
3. To prevent interface that shows customers' orders detail to front-end and kitchen staffs for delivering customers' orders
4. Tools that generate reports that can be used for decision making
5. A tool that allows the management to modify the food information such as price, add a new menu and many others as well as tools for managing user, system menu and promotion records.

This will minimize the number of employees at the back of the counter.

The system will help to reduce labor cost involved.

The system will be less probable to make mistake, since it's a machine.

This will avoid long queues at the counter due to the speed of execution and number of optimum screens to accommodate the maximum throughput.

The main objective of the Online Food Ordering System is to manage the details of Item Category,Food,Delivery Address,Order,Shopping Cart.....The purpose of the project is to build an application program to reduce the manual work for managing the Item Category, Food, Customer, Delivery Address

ObjEctiVEs And GoAlS

1. To increase efficiency and improve services provided to the customers through better application of technology in daily operations.
2. To be able to stand out from competitors in the food service industry
3. To enable customers to order custom meals that aren't in the menu
4. To enable customers to have a visual confirmation that the order was placed correctly
5. To enable customers to know food ingredients before ordering
6. To reduce restaurant's food wastage
7. To ensure correct placement of orders through visual confirmation
8. Improve efficiency of restaurant's staff
9. Eliminate paper work and increase level of accuracy
10. Increase speed of service, sales volume and customer satisfaction
11. To increase efficiency by shortening the purchasing time and eliminating paper work like receipts through online transaction
12. To be able to stand out from competitors by automating daily operations which will give food service providers the opportunity to increase sales
13. To reduce restaurants food wastage and increasing efficiency of the restaurants staff by enabling the restaurants staff to know what food items the customers want in advance.
14. To increase customer satisfaction by speeding up food delivery
15. To reduce time wasting by eliminating long queues
16. More accuracy and easy order processing.
17. 24

LitErAturE SurVEy

Various case studies have highlighted the problems faced while setting up a restaurant.. Some of the problems Found during the survey in the existing system are listed Below :

1. To place the orders customer visits the restaurant, Checks the menu items available in the restaurant, and chooses the items required, then places the order And then do the payment.
2. This method demands Manual work and time on the part of the customer.
3. When the customer wants to order over the phone, Customer is unable to see the physical copy of the Menu available in the restaurant, this also lacks the Verification that the order was placed for the appropriate menu items.
4. Every restaurant needs someone or the other to take order personally or over phone, to offer the Customer a rich experience and even to process the payment.

Project scope and limitation

Note-Refer old document format that are already sent you.

1. This system will help to customer and restaurants and administrator for the ordering process.
2. Easy to make ordering and hopefully can smoothen up the job of administrator and waiter.
3. This system produce a computerized system in defining the best solution in food delivery system.
4. Easy access to any stage.
5. Lot of time is save.
6. Easy back up of data.

Limitations

1. Cost associated with backup storage to the system than the cost associated with maintaining on-site alone.
2. A potential for customer to fail to adapt to online ordering or tablesite checkout.

Project Perspective

The Online Food Ordering System (SB Foods) is a comprehensive, web-based application that allows users to conveniently browse menus, place food orders, and track deliveries. This system is designed for access via internet browsers on various devices like PCs, laptops, and smartphones. It ensures a smooth, secure, and efficient ordering experience for customers, while also offering powerful tools for restaurant staff and administrators.

System Model

The Online Food Ordering System (SB Foods) is a comprehensive, web-based application that allows users to conveniently browse menus, place food orders, and track deliveries. This system is designed for access via internet browsers on various devices like PCs, laptops, and smartphones. It ensures a smooth, secure, and efficient ordering experience for customers, while also offering powerful tools for restaurant staff and administrators.

The system is structured into three major logical components:

1. Web Ordering System:

Facilitates customers in placing orders and entering their delivery and payment details.

2. Menu Management:

Allows the restaurant admin to manage menu items, including additions, updates, and deletions.

3. Order Retrieval System:

Empowers the restaurant to process, monitor, and manage incoming orders in real-time.

Product Functions

1. Web Ordering System Module :

This module enables users to place orders and enter key details such as location, contact, and payment preferences. Key submodules include:

- Home Page
- Meal Plan Page
- My Cart Page
- Login/Signup Page

2. Menu Management Module :

Used by admins to manage food item listings, which are visible to users:

- Add/Edit/Delete Food Items
- Set Food Size Options
- Configure Pricing
- Upload Food Images
- Add Descriptions

3. Order Retrieval Module :

Allows restaurant staff to handle customer orders:

- View Order Plans
- Track Order Quantity
- Manage Delivery Status

UsEr ScEnArio: LAtE-Night CrAVing REsolution

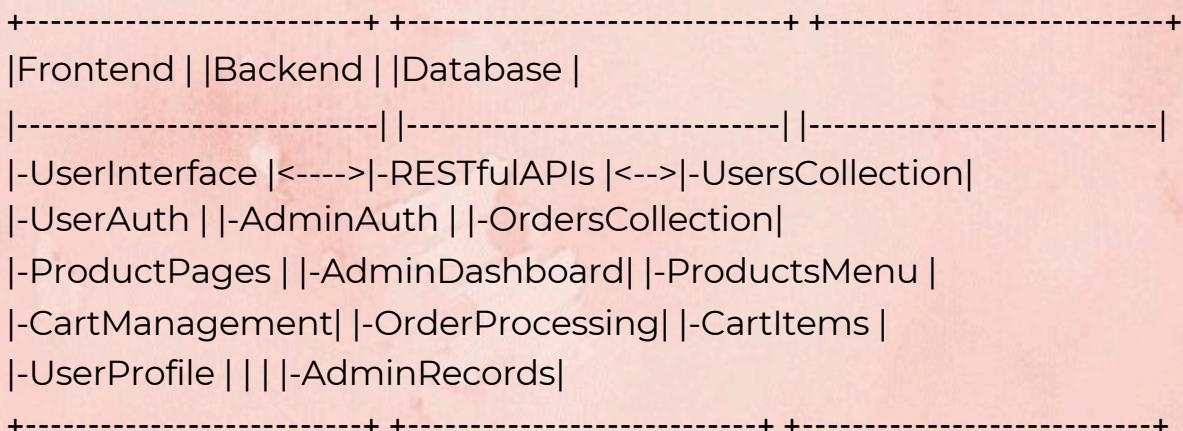
Meet Lisa, a college student working late on an assignment. It's midnight, and she realizes she skipped dinner. Cooking is not an option, and going out isn't safe or convenient.

Using SSP Foods, Lis A:

1. Opens the app and goes to the “Late-Night Delivery” section.
2. Browses menus and finds her favorite diner still accepting orders.
3. Chooses chicken noodle soup and garlic bread.
4. Adds items to her cart, selects delivery address, and payment method.
5. Reviews order details and confirms with a tap.
6. Gets instant confirmation and estimated delivery time.
7. Receives her hot, delicious meal quickly and gets back to work.

This showcases how SSP Foods addresses user needs seamlessly even at odd hours—providing convenience, speed, and satisfaction without compromise.

TEchnicAI ArchitEcturE OVerVi EW



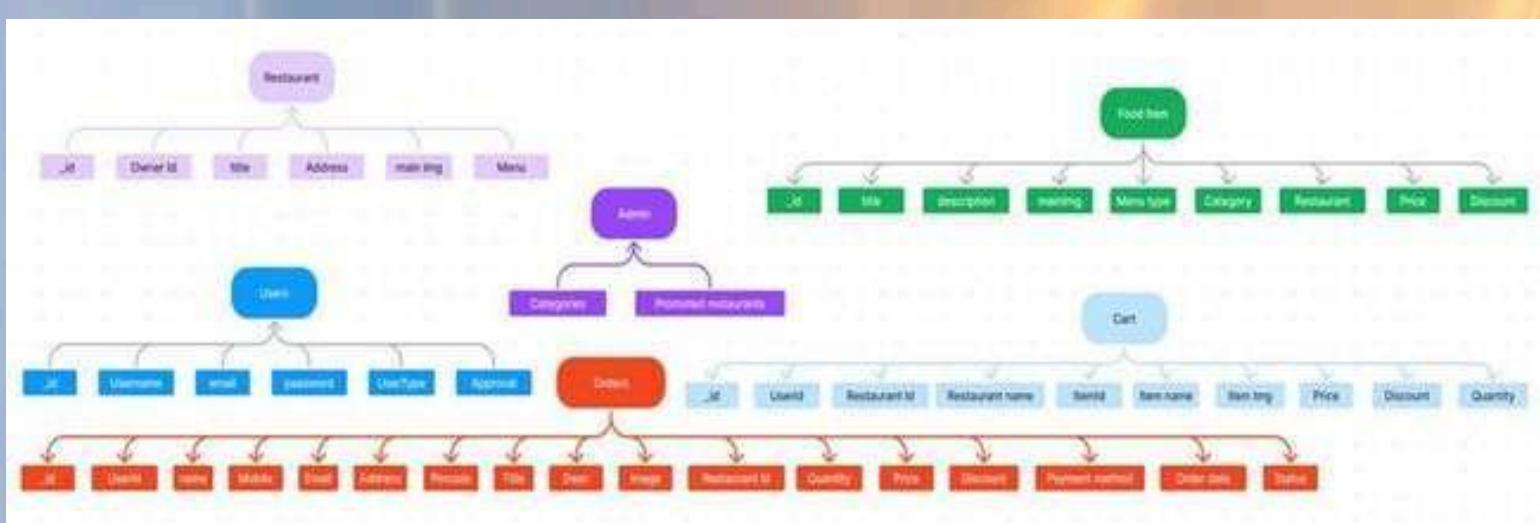
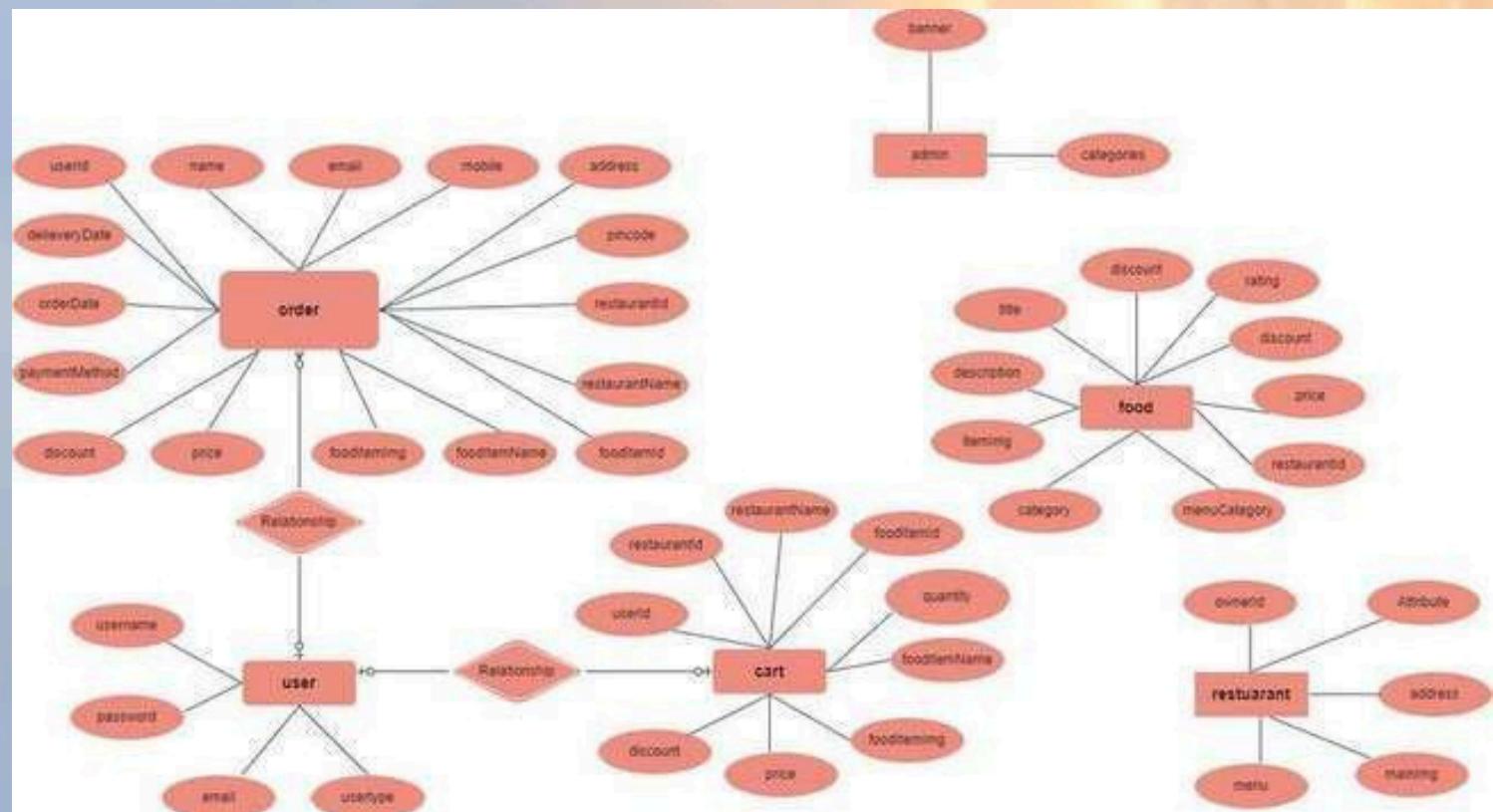
KEy ComponEnts:

- Frontend Built with responsive UI for user interaction, login, cart, and admin control.
- Backend Node.js/Express or similar stack serving APIs for users, products, orders, and admin.
- Database MongoDB or SQL storing persistent data for orders, users, and menu items.

ER-DiAgrAm OVerVi EW

System Design : Design Constraints-Entity Relationship Diagram

The SSP Foods ER-Diagram visualizes the key entities and their relationships within the food ordering e-commerce platform. It outlines how users, restaurants, products, carts, and orders are structured and interact with each other in the system.



Entity Descriptions

- User:

Represents individuals registered on the platform. Each user has a unique ID and personal information like name, email, and address.

- Restaurant:

Stores details of restaurants listed on the platform. Includes restaurant name, contact, cuisine type, and availability.

- Admin:

Represents platform administrators who manage promoted restaurants, food categories, and have access to system-level controls.

- Products:

Contains all food items available for order. Each product is associated with a restaurant and includes name, description, price, size, image, and category.

- Cart:

Stores items added by users before placing an order. Each cart entry links products with the corresponding user ID and quantity.

- Orders:

Maintains records of all user purchases. Each order is linked to a user and contains order details like items, quantity, status, delivery address, and payment method.

KEy Features of SSP Foods

1. Comprehensive Product Catalog

SSP Foods offers a wide variety of dishes from multiple restaurants. Users can explore food items through an organized catalog with:

- Detailed food descriptions
- Customer reviews
- Prices and discounts
- Availability by category or restaurant



2. Order Details Page

After choosing their meals, users are guided to a dedicated Order Details Page where they can:

- Enter shipping/delivery address
- Select payment method (e.g., UPI, card, cash)
- Add notes or instructions (e.g., spice level, no onions)

3. Secure & Efficient Checkout

SSP Foods prioritizes a secure and smooth checkout experience:

- SSL-secured transactions
- Fast order processing
- Minimal steps to complete payment

4. Order Confirmation & Summary

Once the order is placed:

- A confirmation notification is immediately sent to the user
- Users are directed to an Order Summary Page showing:
 - Shipping address
 - Order contents
 - Estimated delivery time
 - Payment method used

REstAurAnt DAshboArd FEA turEs

SSP Foods also offers a powerful backend dashboard for restaurants, enabling them to:

- Manage Products: Add, update, and remove menu items
- Track Orders: View order history and real-time order data
- Monitor Customers: Track regular customers and popular dishes
- Access Order Details: See specific order instructions and delivery data

SummAry

SSP Foods is designed to enhance the food ordering experience for both users and restaurant partners. It combines a rich product catalog, an intuitive user interface, secure transactions, and a feature-rich admin dashboard. Whether you're placing a quick midnight snack order or managing a full restaurant menu, SSP Foods delivers efficiency and convenience at every step.

PrE-REquisitEs & SEtup GuidE

REQUIRED TOOLS & TECHNOLOGIES

1. Node.js and npm

Node.js enables JavaScript to run on the server side. npm manages project dependencies.

Download: <https://nodejs.org/en/download/>

2. MongoDB

A NoSQL database to store user, order, and product data.

Download: <https://www.mongodb.com/try/download/community>

3. Express.js

A Node.js web framework for building APIs.

Install: npm install express

4. React.js

Frontend library for building dynamic user interfaces.

Guide: <https://reactjs.org/docs/create-a-new-react-app.html>

5. HTML, CSS, and JavaScript

Core technologies for building the web interface.

6. Mongoose

MongoDB ODM for Node.js.

Guide: <https://www.section.io/engineering-education/nodejs-mongoosejs-mongodb/>

7. Git

Version control system.

Download: <https://git-scm.com/downloads>

8. Code Editor (IDE)

Examples: -

Visual Studio Code: <https://code.visualstudio.com/download>

Sublime Text: <https://www.sublimetext.com/download>

WebStorm: <https://www.jetbrains.com/webstorm/download>

Project Setup Instructions

Step 1: Clone the Repository

```
git clone https://github.com/harsha-vardhan-reddy-07/Food-Ordering-App-MERN
```

Step 2: Navigate to Project Directory

```
cd Food-Ordering-App-MERN
```

Step 3: Install Dependencies

```
npm install
```

Step 4: Start the Development Server

```
npm run dev OR npm run start
```

Access the App:

Visit <http://localhost:3000> in your browser.

You should see the SB Foods homepage.

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

client structure

```
FOOD ORDERING SYSTEM
client
> node_modules
> public
src
  > components
    Footer.jsx
    Login.jsx
    Navbar.jsx
    PopularRestaurants.jsx
    Register.jsx
    Restaurants.jsx
  > context
  > images
  > pages
    > admin
      Admin.jsx
      AllOrders.jsx
      AllProducts.jsx
      AllRestaurants.jsx
      AllUsers.jsx
    > customer
      Cart.jsx
      CategoryProducts.jsx
      IndividualRestaurant.jsx
      Profile.jsx
    > restaurant
      EditProduct.jsx
      NewProduct.jsx
      RestaurantHome.jsx
      RestaurantMenu.jsx
      RestaurantOrders.jsx
      Authentication.jsx
      Home.jsx
  > styles
# App.css
JS App.js
```

server structure

```
> server
  > node_modules
  JS index.js
  {} package-lock.json
  {} package.json
  JS Schema.js
```

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/>

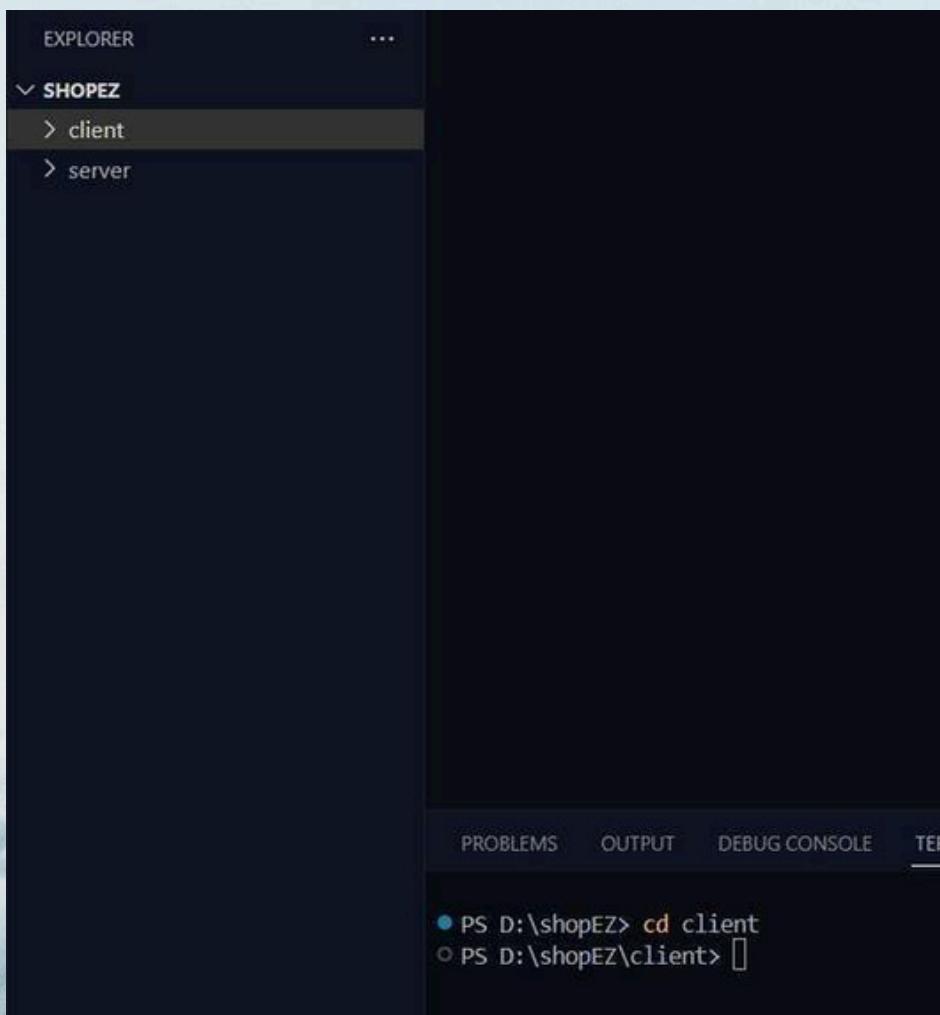
- Git.

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

Create project folders and files:

- Client folders.
- Server folders

Referral Image:



This section outlines the key steps and tools required to set up the SSP Foods Full-Stack Application on your local development environment.

DAtAbAsE DEVELOpmEnt

Create database in cloud

- Install Mongoose.
- Create database connection.

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

Reference Image:

The screenshot shows a Visual Studio Code (VS Code) interface. The Explorer sidebar on the left shows a project structure for 'SHOPEZ' with 'client', 'server', 'node_modules', '.env', 'index.js', 'package-lock.json', and 'package.json'. The 'index.js' file is open in the editor, displaying the following code:

```
import express from "express";
import mongoose from "mongoose";
import cors from "cors";
import dotenv from "dotenv";

dotenv.config({ path: "./.env" });

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 () => {
  try {
    await mongoose.connect(MongoUri);
    console.log("Connected to your MongoDB database successfully");
  } catch (error) {
    console.log(error.message);
  }
};

connectToMongo();
```

The 'Terminal' tab at the bottom shows command-line output:

- 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
App server is running on port 3001
Connected to your MongoDB database successfully

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

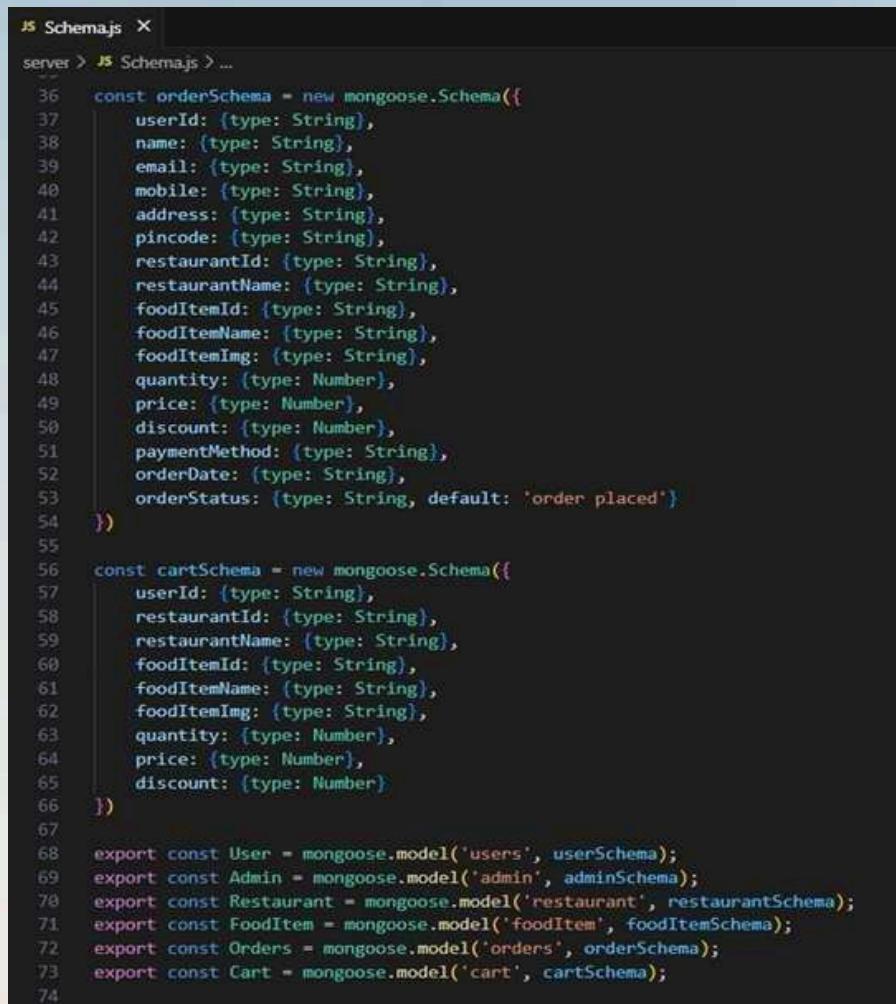
Schemas: Now let us define the required schemas

```
JS Schema.js X
server > JS Schema.js > [o] 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
```

This section outlines the setup, connection, and schema design for the MongoDB database used in the SSP Foods full-stack food ordering application.

Think of the SSP Foods App as a busy digital restaurant. Behind the beautiful menu and seamless ordering experience lies a smart kitchen — the MongoDB Database — quietly making everything work.

This code defines two important Mongoose schemas for managing Orders and Carts in your food ordering application using MongoDB.



```
JS Schema.js X
server > JS Schema.js > ...
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
```

This block exports Mongoose models so that other files (like routes or controllers) can use them

```
export const User = mongoose.model('users', userSchema);
export const Admin = mongoose.model('admin', adminSchema);
export const Restaurant = mongoose.model('restaurant', restaurantSchema);
export const FoodItem = mongoose.model('foodItem', foodItemSchema);
export const Orders = mongoose.model('orders', orderSchema);
export const Cart = mongoose.model('cart', cartSchema);
```

These models are essential for querying and manipulating your MongoDB collections.

BAckEnd DEVElOpment

1. Initialize Project:

- Create a new directory:

```
mkdir sb-foods-app && cd sb-foods-app
```

- Initialize with npm:

```
npm init -y
```

- Install dependencies:

```
npm install express mongoose dotenv cors body-parser
```

Reference Image:

The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar displays a project structure with a 'server' folder selected. Inside 'server', there are files for 'package-lock.json' and 'package.json'. The 'package.json' file is open in the main editor area, showing its contents. The terminal at the bottom shows the command 'npm install express mongoose body-parser dotenv' being run, along with the resulting output of package installation.

```
1 {  
2   "name": "server",  
3   "version": "1.0.0",  
4   "description": "",  
5   "main": "index.js",  
6   "scripts": {  
7     "test": "echo \\"$Error: no test specified\\" && exit 1"  
8   },  
9   "keywords": [],  
10  "author": "",  
11  "license": "ISC",  
12  "dependencies": {  
13    "bcrypt": "^5.1.1",  
14    "body-parser": "^1.20.2",  
15    "cors": "^2.8.5",  
16    "dotenv": "^16.4.5",  
17    "express": "^4.19.1",  
18    "mongoose": "^8.2.3"  
19  }  
20}  
21  
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS  
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 0 vulnerabilities  
PS D:\shopEZ\server> npm i bcrypt cors  
added 61 packages, and audited 147 packages in 9s
```

2. Setup Express Server:

Create index.js in root

```
const express = require("express");
const mongoose = require("mongoose");
const cors = require("cors");
const bodyParser = require("body-parser");
require("dotenv").config();

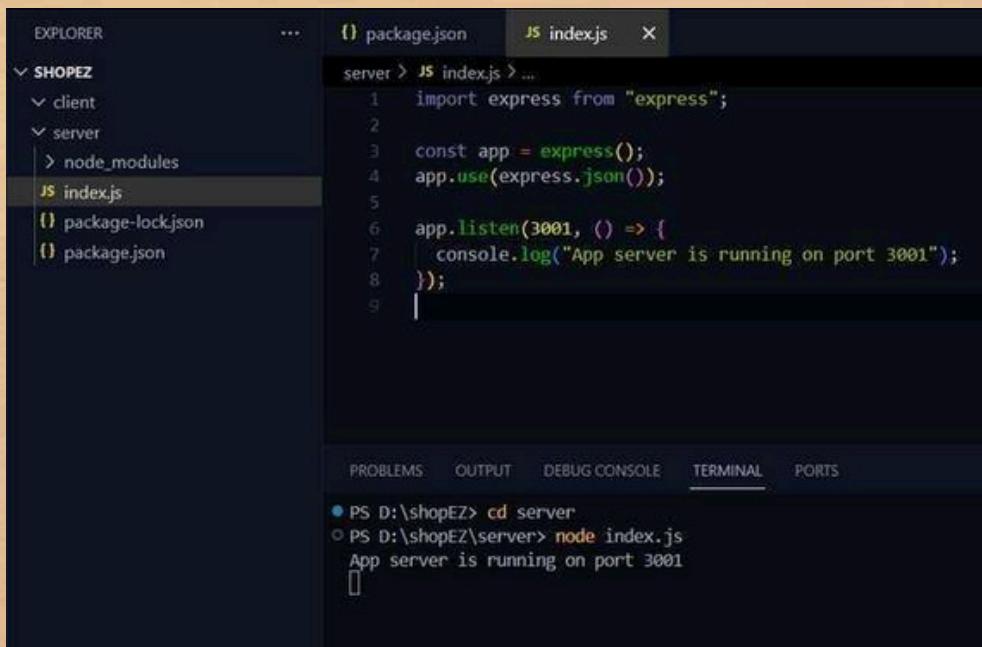
const app = express();
const PORT = process.env.PORT || 5000;

app.use(cors());
app.use(bodyParser.json());

app.get("/", (req, res) =>
{ res.send("Server is running");
});

app.listen(PORT, () => {
  console.log(`Server started on port ${PORT}`);
});
```

Reference Image:



The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar displays a project structure with folders 'SHOPEZ', 'client', 'server', and 'node_modules'. Inside 'server', there are files 'index.js', 'package-lock.json', and 'package.json'. The 'index.js' file is selected and shown in the main editor area. The code in 'index.js' is identical to the one provided in the text above. Below the editor, the 'TERMINAL' tab is active, showing a command-line session. The terminal output shows the command 'PS D:\shopEZ> cd server' followed by 'PS D:\shopEZ\server> node index.js' and the response 'App server is running on port 3001'.

3. Database Configuration:

- Use MongoDB Atlas or local MongoDB Compass.
- Set .env variables:

MONGO_URI=your_mongodb_connection_string

- Connect to DB:

```
mongoose.connect(process.env.MONGO_URI,
  { useNewUrlParser: true,
    useUnifiedTopology: true,
  })
.then(() => console.log("MongoDB Connected"))
.catch((err) => console.error(err));
```

Reference Video: [Google Drive MongoDB Setup](#)

Reference Article: [MongoDB Atlas Guide](#)

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure for 'SHOPEZ' with 'client', 'server', 'node_modules', '.env', 'index.js', 'package-lock.json', and 'package.json'. The 'index.js' file is open in the main editor area, showing code for setting up an Express app, enabling CORS, and connecting to a MongoDB database using Mongoose. The terminal at the bottom shows command-line output from a PowerShell session (PS) running on Windows. The user navigates to the 'server' directory and runs 'node index.js'. The application starts on port 3001 and logs a success message indicating it's connected to the MongoDB database successfully. There is also a 'bad auth : authentication failed' entry in the terminal history.

```
EXPLORER JS index.js .env
... server > JS index.js ...
SHOPEZ
  client
  server
  node_modules
  .env
  index.js
  package-lock.json
  package.json

1 import express from "express";
2 import mongoose from "mongoose";
3 import cors from "cors";
4 import dotenv from "dotenv";
5
6 dotenv.config({ path: "./.env" });
7
8 const app = express();
9 app.use(express.json());
10 app.use(cors());
11
12 app.listen(3001, () => {
13   console.log("App server is running on port 3001");
14 });
15
16 const MongoURI = process.env.DRIVER_LINK;
17 const connectToMongo = async () => {
18   try {
19     await mongoose.connect(MongoURI);
20     console.log("Connected to your MongoDB database successfully");
21   } catch (error) {
22     console.log(error.message);
23   }
24 };
25
26 connectToMongo();
27

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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
App server is running on port 3001
Connected to your MongoDB database successfully
```

4. Create Express Routes:

- Structure:

```
/routes
  - users.js
  - products.js
  - orders.js
```

- Sample route:

```
const express = require("express");
const router = express.Router();

router.get("/", (req, res) =>
{ res.send("All users");
});

module.exports = router;
```

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with a 'server' folder containing 'node_modules', 'index.js', 'package-lock.json', and 'package.json'. The 'index.js' file is currently selected and open in the main editor area. The code in 'index.js' is as follows:

```
import express from "express";
const app = express();
app.use(express.json());
app.listen(3001, () => {
  console.log("App server is running on port 3001");
});
```

Below the editor, the 'TERMINAL' tab is active, showing the output of a terminal session:

```
PS D:\shopEZ> cd server
PS D:\shopEZ\server> node index.js
App server is running on port 3001
```

5. Implement Data Models (Schemas):

- Use Mongoose schemas for Users, Products, Orders, Carts, Admins, and Restaurants.
- Example schema:

```
const mongoose = require("mongoose");
const userSchema = new
  mongoose.Schema({ username: String,
    email: String,
    password: String,
  });
module.exports = mongoose.model("User", userSchema);
```

6. User Authentication:

- Implement registration, login, and protected routes.
- Use JWT for auth tokens.

7. Product and Order Handling:

- Endpoints for:
- Product listing (GET)
- Add product (POST)
- Place order (POST)

8. Admin Functionality:

- Admin dashboard endpoints:
- Manage users
- Add/edit/delete products
- View orders
- Middleware for role-based access

9. Error Handling:

- Global error middleware:

```
app.use((err, req, res, next) => {
  res.status(500).json({ error: err.message });
});
```

FrontEnd DEVElOpment

1. Setup React Application:

- Create a React app in the client folder:
`npx create-react-app client`
- Install required libraries:
`npm install axios react-router-dom bootstrap`
- Create required pages and components and set up routing using `react-router-dom`.

2. Design UI Components:

- Break down the UI into reusable components like Navbar, Footer, ProductCard, etc.
- Use CSS or libraries like Bootstrap/Tailwind for styling.
- Implement responsive layouts using Flexbox/Grid.
- Add navigation between pages using `<Link>` and `<Route>` from `react-router-dom`.

3. Implement Frontend Logic:

- Fetch data using axios from backend API endpoints (e.g., `/api/products`, `/api/users/login`).
- Use React state (`useState`, `useEffect`) for dynamic data binding.
- Store user info or tokens in `localStorage` after login.

Reference Article Link:

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

Reference Image:

The screenshot shows a VS Code interface with the following details:

- File Explorer:** Shows a project structure for "SHOPEZ" with "client" and "server" folders. Inside "client", there are "node_modules", "public", and "src" folders. "src" contains "App.css", "App.js", "App.test.js", "index.css", "index.js", "logo.svg", "reportWebVitals.js", "setupTests.js", ".gitignore", "package-lock.json", "package.json", and "README.md".
- Code Editor:** The "index.js" file is open, displaying React code for the "App" component. It imports "logo" from "./logo.svg" and "App.css". The component returns a div with an "App-header" header containing an image of the logo and a link to "https://reactjs.org".
- Terminal:** The terminal shows the output of a build process:
 - "Compiled successfully!"
 - "You can now view client in the browser."
 - "Compiled successfully!"
 - "You can now view client in the browser."
 - "Local: http://localhost:3000"
 - "On Your Network: http://192.168.29.151:3000"
 - Note: "Note that the development build is not optimized. To create a production build, use `npm run build`.webpack compiled successfully"
- Status Bar:** Shows "master" and other repository details.

Code Explanation:

Server setup:

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

```
JS index.js  X
server > JS indexjs > ...
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(()=>{
```

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 > [o] GeneralContextProvider > [o] register > [o] 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:

```
[o] GeneralContext.jsx U X
client > src > context > [o] GeneralContext.jsx > [o] GeneralContextProvider > [o] login >
/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    }
102 }
```

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:

```
JS IndividualRestaurant.jsx 4, U X
client > src > pages > customer > JS IndividualRestaurant.jsx > [●] IndividualRestaurant > [●] handleCategoryCheckBox
32
33     const fetchRestaurants = async() =>{
34         await axios.get(`http://localhost:6001/fetch-restaurant/${id}`).then(
35             (response)=>{
36                 setRestaurant(response.data);
37                 console.log(response.data)
38             }
39         ).catch((err)=>{
40             console.log(err);
41         })
42     }
43
44     const fetchCategories = async () =>{
45         await axios.get('http://localhost:6001/fetch-categories').then(
46             (response)=>{
47                 setAvailableCategories(response.data);
48             }
49         )
50     }
51
52     const fetchItems = async () =>{
53         await axios.get('http://localhost:6001/fetch-items').then(
54             (response)=>{
55                 setItems(response.data);
56                 setVisibleItems(response.data);
57             }
58         )
59     }
60 }
```

Filtering products:

```
Products.js 2.0 X
client > src > components > Products.js > M Product > ⓘ useEffect() callback
  18  const [sortFilter, setSortFilter] = useState('popularity');
  19  const [categoryFilter, setCategoryFilter] = useState([]);
  20  const [genderFilter, setGenderFilter] = useState([]);
  21
  22  const handleCategoryCheckBox = (e) =>{
  23    const value = e.target.value;
  24    if(e.target.checked){
  25      setCategoryFilter({...categoryFilter, value});
  26    }else{
  27      setCategoryFilter(categoryFilter.filter(size=> size !== value));
  28    }
  29  }
  30
  31  const handleGenderCheckBox = (e) =>{
  32    const value = e.target.value;
  33    if(e.target.checked){
  34      setGenderFilter({...genderFilter, value});
  35    }else{
  36      setGenderFilter(genderFilter.filter(size=> size !== value));
  37    }
  38  }
  39
  40  const handleSortFilterChange = (e) =>{
  41    const value = e.target.value;
  42    setSortFilter(value);
  43    if(value === 'low-price'){
  44      setVisibleProducts(visibleProducts.sort((a,b)<-> a.price - b.price))
  45    } else if (value === 'high-price'){
  46      setVisibleProducts(visibleProducts.sort((a,b)<-> b.price - a.price))
  47    } else if (value === 'discount'){
  48      setVisibleProducts(visibleProducts.sort((a,b)<-> b.discount - a.discount))
  49    }
  50  }
  51
  52  useEffect(()=>{
  53
  54    if (categoryFilter.length > 0 && genderFilter.length > 0){
  55      setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category) && genderFilter.includes(product.gender)));
  56    }else if(categoryFilter.length === 0 && genderfilter.length > 0){
  57      setVisibleProducts(products.filter(product=> genderfilter.includes(product.gender)));
  58    } else if(categoryFilter.length > 0 && genderFilter.length === 0){
  59      setVisibleProducts(products.filter(product=> categoryFilter.includes(product.category)));
  60    }else{
  61      setVisibleProducts(products);
  62    }
  63  })
  64  [categoryFilter, genderfilter]
  65
  66
```

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
  108      }catch(err){
  109        res.status(500).json({ message: 'Error occurred' });
  110      }
  111    })
```

Add product to cart:

Front end

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

```
File: IndividualRestaurant.jsx
```

```
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:

```
File: index.js
```

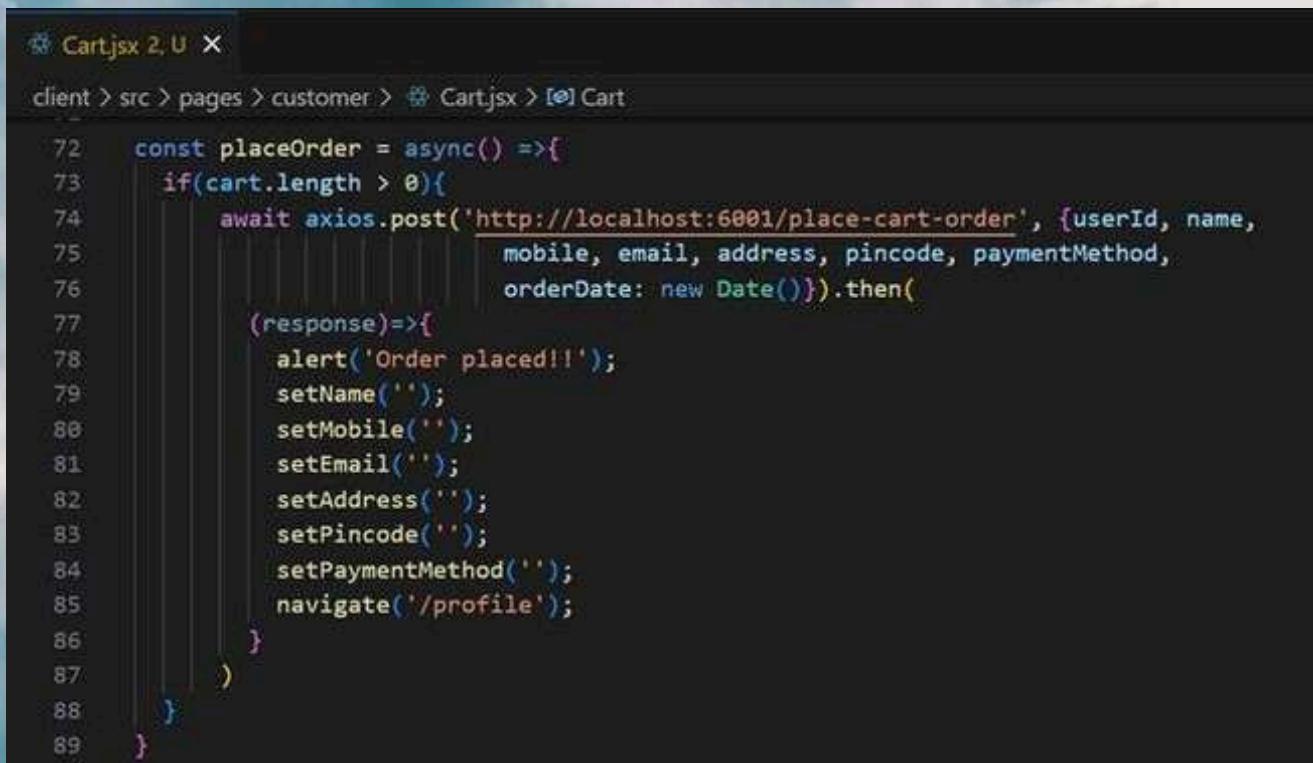
```
server > JS index.js > then() callback > app.put('/remove-item') callback
```

```
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 occurred"});
416   }
417 }
418 }
```

Order products:

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

Frontend

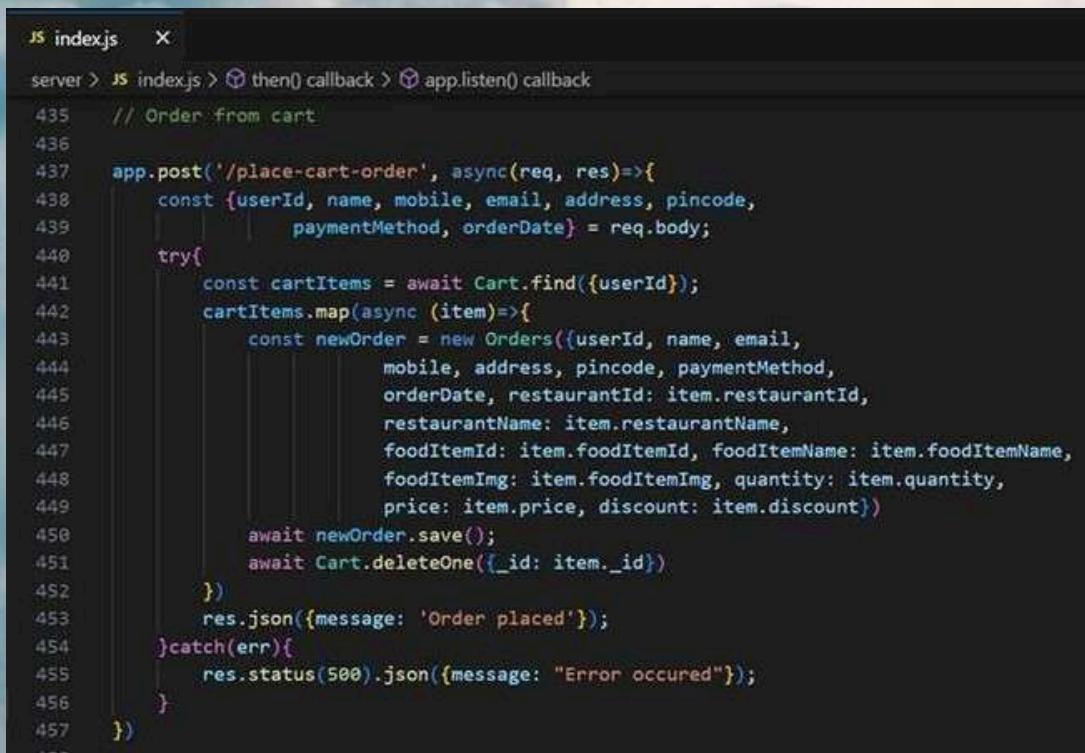


```
client > src > pages > customer > Cartjsx > [o] Cart

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.



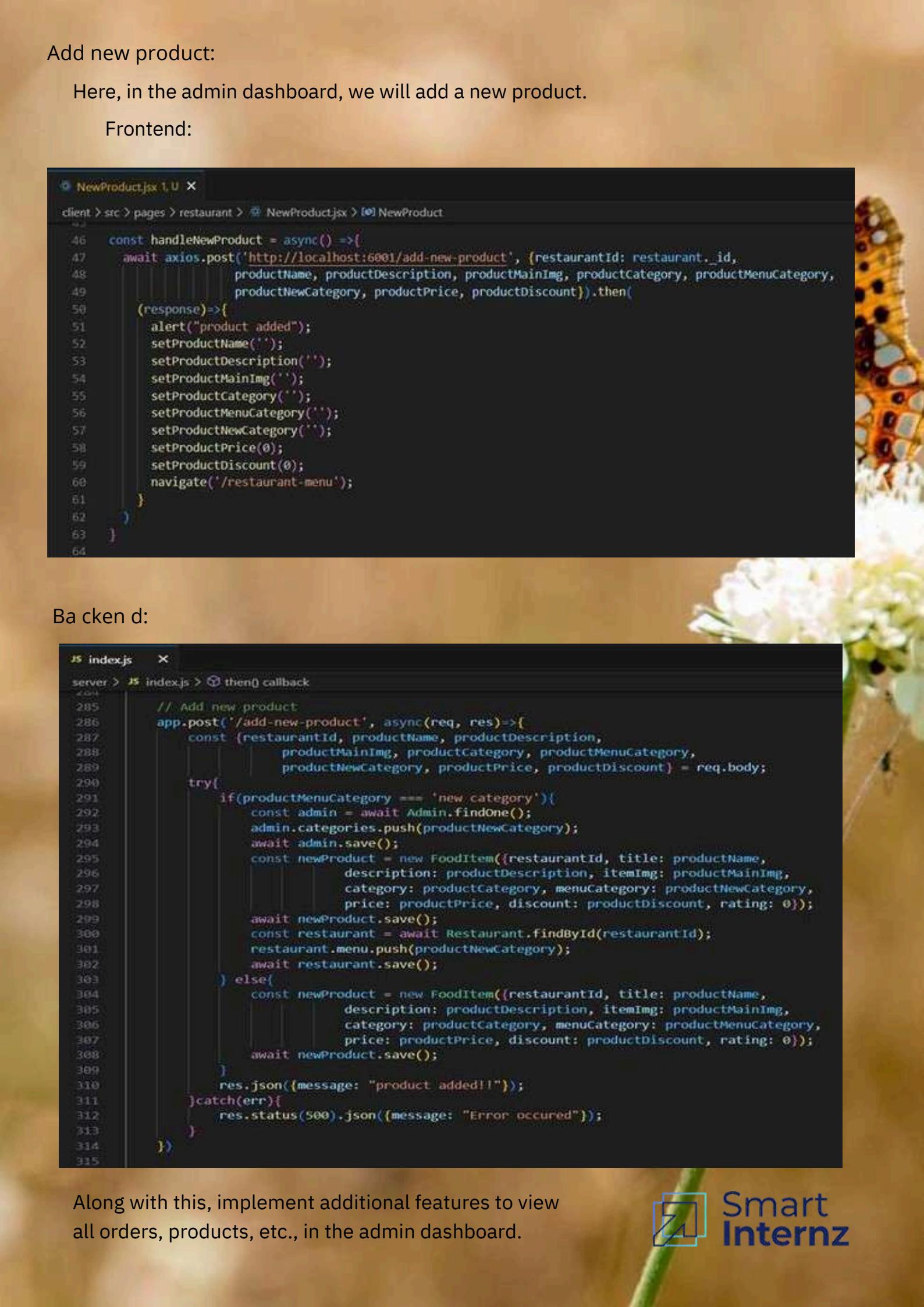
```
server > JS indexjs > [o] then() callback > [o] app.listen() callback

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 occurred"});
456   }
457 }
```

Add new product:

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

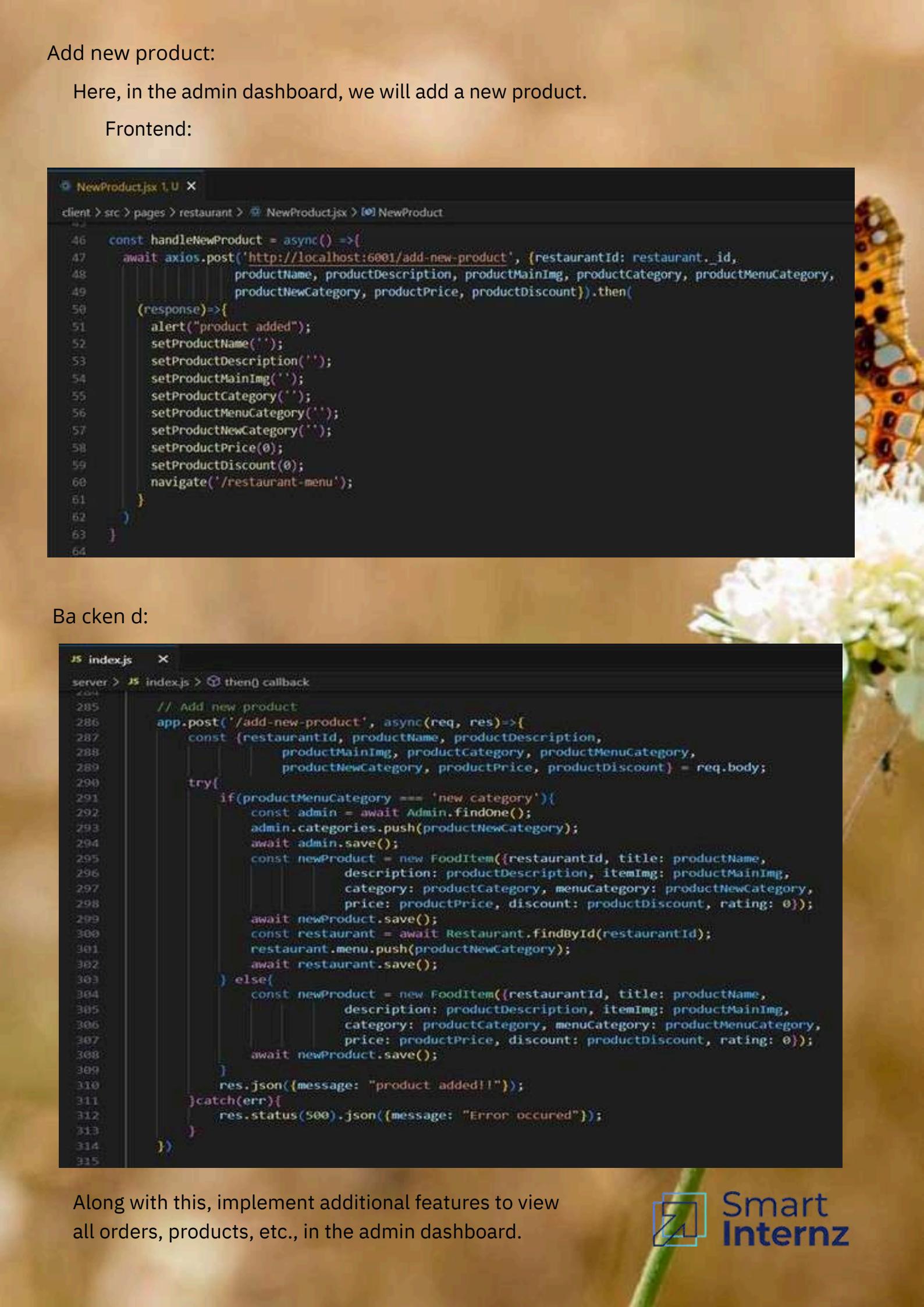
Frontend:



A screenshot of a code editor showing a file named 'NewProduct.jsx'. The code is an asynchronous function 'handleNewProduct' that sends a POST request to 'http://localhost:6001/add-new-product' with various product details. It then clears all input fields and navigates to '/restaurant-menu'.

```
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     setDescription('');
54     setMainImg('');
55     setCategory('');
56     setMenuCategory('');
57     setNewCategory('');
58     setPrice(0);
59     setDiscount(0);
60     navigate('/restaurant-menu');
61   }
62 )
63 }
64 }
```

Backend:



A screenshot of a code editor showing a file named 'index.js'. It contains an 'add-new-product' route that handles a POST request. It extracts product details from the body, checks if a new category is being added, and either adds it to an admin's categories or creates a new food item. It then saves the product and updates the restaurant's menu. Finally, it returns a success message or an error status.

```
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.

ProjEct ImplEmEntAtion & ExEcution

Landing page

SB Foods

Search Restaurants, cuisine, etc.

Login



Breakfast Biriyani Pizza Noodles Burger

Popular Restaurants



Landing page

SB Foods

Search Restaurants, cuisine, etc.

Login

All restaurants



Andhra Spice
Madhapur, Hyderabad



Mc donalds
Marikonda, Hyderabad



HOTEL PARADISE
Business Report And Food
Paradise Grand
Hitech City, Hyderabad



m Minarva Grand
Kukatpally, Hyderabad

Restaurant Menu

The screenshot shows the SB Foods website displaying the menu for 'Mc donalds' located in Manikonda, Hyderabad. The page includes a sidebar with filters for Sort By (Popularity, low-price, high-price, Discount, Rating), Food Type (Veg, Non Veg, Beverages), and Categories (Biryani, Curry). The main content area shows four items: 'Mc Maharaj' (Big size burger with chic..., ₹ 175.209), 'French fries' (Long French fries made fr..., ₹ 134.149), 'Cold Coffee' (Tinder coffee made from s..., ₹ 201.249), and 'Chicken Pizza' (Crispy pizza with tasty c..., ₹ 314.349). Each item has an 'Add item' button.

Authentication

The screenshot shows the SB Foods website's registration page. It features fields for 'Username', 'Email address', and 'Password'. A dropdown menu for 'User type' is open, showing options: Admin, Restaurant, and Customer. The 'Customer' option is highlighted with a blue selection bar. Below the form is a link 'Already registered? Login'.

User Profile

SB Foods

Search Restaurants, cuisine, etc.

hola 0

Orders

Username: hola
Email: hola@gmail.com
Orders: 7

[Logout](#)

 Vanilla Lassi
Andhra Spice
Quantity: 1 Total Price: ₹ 119 ₹149 Payment mode: cod
Ordered on: 2023-09-01 Time: 14:18 status: delivered

 Tandoori chicken
Minerva Grand
Quantity: 1 Total Price: ₹ 491 ₹599 Payment mode: cod
Ordered on: 2023-09-01 Time: 14:18 status: order placed

Cart

SB Foods

Search Restaurants, cuisine, etc.

hola 2

 Chicken Biriyani
Andhra Spice
Quantity: 1 Price: ₹ 262 ₹309
[Remove](#)

 Butter Chicken
Andhra Spice
Quantity: 1 Price: ₹ 229 ₹249
[Remove](#)

Price Details

Total MRP: ₹ 558
Discount on MRP: - ₹ 66
Delivery Charges: + ₹ 50

Final Price: ₹ 542

[Place order](#)

Admin dashboard

SB Foods (admin)

Home Users Orders Restaurants Logout

Total users 5 [View all](#)

All Restaurants 4 [View all](#)

All Orders 7 [View all](#)

Popular Restaurants(promotions)

- Andhra Spice
- Mc donalds
- Paradise Grand
- Minarva Grand

[Update](#)

Approvals

No new requests...

All Orders

SB Foods (admin)

Home Users Orders Restaurants Logout

Orders

Tandoori chicken
Minarva Grand

UserId: 64ef62f0720e1af1a02f5e24 Name: Jack Mobile: 7686767908 Email: jack@gmail.com

Quantity: 1 Total Price: ₹ 491 ₹ 499 Payment mode: cod

Address: Raidurgh, Hyderabad Pincode: 500034 Ordered on: 2023-09-01 Time: 14:18

Status: order placed

[Update order status](#) [Update](#) [Cancel](#)

Butter Chicken
Andhra Spice

UserId: 64ef62f0720e1af1a02f5e24 Name: Jack Mobile: 7686767908 Email: jack@gmail.com

Quantity: 1 Total Price: ₹ 229 ₹ 249 Payment mode: cod

Address: Raidurgh, Hyderabad Pincode: 500034 Ordered on: 2023-09-01 Time: 14:18

All restaurants

SB Foods (admin)

All restaurants

 <p>Andhra Spice Madhapur, Hyderabad</p>	 <p>Mc donalds Manikonda, Hyderabad</p>	 <p>Paradise Grand Hitech city, Hyderabad</p>	 <p>Minarva Grand Kukatpally, Hyderabad</p>
---	--	---	--

Restaurant Dashboard

SB Foods (Restaurant)

Home Orders Menu New Item Logout

All Items 4 View all	All Orders 0 View all	Add Item (new) Add now
--	---	--

New Item

The screenshot shows a dark-themed web application interface for adding a new product. At the top, there's a navigation bar with links for Home, Orders, Menu, New Item, and Logout. Below the navigation, the title "New Product" is centered above a form. The form fields include:

- Product name (input field)
- Product Description (input field)
- Thumbnail Img url (input field)
- Type section with radio buttons for Veg, Non Veg, and Beverages.
- Category dropdown menu set to "Choose Product cat".
- Price input field containing "0".
- Discount (in %) input field containing "0".

A large blue button at the bottom right of the form area is labeled "Add product".

Conclusion

The development of OrderOnTheGo: Your On-Demand Food Ordering Solution has been a highly enriching experience. This project enabled the application of theoretical knowledge in a practical environment, integrating technologies such as React.js, Node.js, Express, and MongoDB to build a dynamic and responsive full-stack application. The journey involved real-world challenges such as UI/UX optimization, secure API integration, state management, and deployment strategies. Through this project, I have significantly enhanced my technical, problem-solving, and project management skills. This solution not only simulates the functionality of modern food ordering platforms but also lays the groundwork for future innovations in the domain. It stands as a testament to continuous learning and the potential of web technologies in transforming business operations.

Project Links

Git hub repository: <https://github.com/LeonardoXmariposa/food-ordering-systemopia0>

Demo video(you tube): <https://www.youtube.com/watch?v=ntOTdudM9wE>

About the developers team

Team ID : LTVIP2025TMID55809

Team members :

- 1.Sripriya Akula
- 2.Poojitha Pasupuleti
- 3.Parasa Sundar Singh
- 4.Sarva Sree Lakshmi Manaswini

Institution: DMS SVH College of Engineering

ACKNOWLEDGEMENT

We would like to express our heartfelt gratitude to our project guide, the faculty members, and the institution for their invaluable support, guidance, and encouragement throughout the duration of this project.

We are especially thankful to SmartInternz and the entire internship coordination team for offering this exceptional opportunity to gain real-world industry experience. The well-structured learning modules, expert mentorship, and continuous support provided by the platform played a pivotal role in shaping our project and enhancing our skills.

Our sincere appreciation also goes to our team members of Team ID: LTVIP2025TMID55809, whose dedication, cooperation, and collaborative spirit were essential to the successful completion of the OrderOnTheGo project. This experience has significantly improved our ability to work as a team, face challenges together, and deliver effective technical solutions.