OrderOnTheGo : Your On-Demand Food Ordering Solution - Project Documentation

1. Introduction:

Project Title: OrderOnTheGo:Your On-Demand Food Ordering Solution.

Team ID: LTVIP2025TMID56988

Team Members:
1.Ramakrishna Tejasri (Team Leader)
2.k. Guna shekar(Team member)
3.K. Indrani(Team member)
4.K. chandusri(Team member)

2. Project Overview:

2.1. Purpose:
OrderOnTheGo is a web-based food ordering platform that connects users with restaurants for quick and easy meal ordering. It streamlines the ordering process, provides real-time order tracking, and offers an intuitive user interface for both customers and restaurant owners.

2.2. Features:

- User authentication (Customers & Restaurants)
- Restaurant and Menu management
- Real-time food order placement and status tracking
- Admin panel for managing users and orders
- Search/filter by cuisine or restaurant

- Dashboards for both users and restaurants

3.Prerequisites

Make sure the following are installed:
Node.js v14 or higher
MongoDB v4.4 or higher
npm (included with Node.js)
Git & VS Code (recommended)

4.Application Flow

1. User visits the landing page
2. Registers or logs in
3. Menu items are dynamically rendered from JSON
4. Authenticated users can view their profile
5. Auth token stored in browser (localStorage)
6. Logout clears token and redirects

5.Project Structure

```
orderonthego/
├── client/          # React frontend
│   ├── public/
│   └── src/
│       ├── components/ # Navbar, Login, MenuItem, etc.
│       ├── data/      # JSON data (menuItems.js)
│       └── App.js
└── server/          # Node/Express backend
    ├── models/       # Mongoose schemas
    ├── routes/       # API routes
    ├── controllers/  # Business logic
    ├── middleware/   # Auth, validation
    └── server.js     # Main backend entry
```

6. Project Flow

Frontend handles routing, API calls, and UI state
Backend serves REST API with JWT-secured routes
MongoDB stores users and (optionally) orders
JSON data in frontend handles menu display

7.Project Setup & Configuration

Backend Setup

```
cd server
npm install
npm start
.env file in /server:
PORT=5000
JWT_SECRET=your-secret-key-here
MONGODB_URI=mongodb://localhost:27017/
```

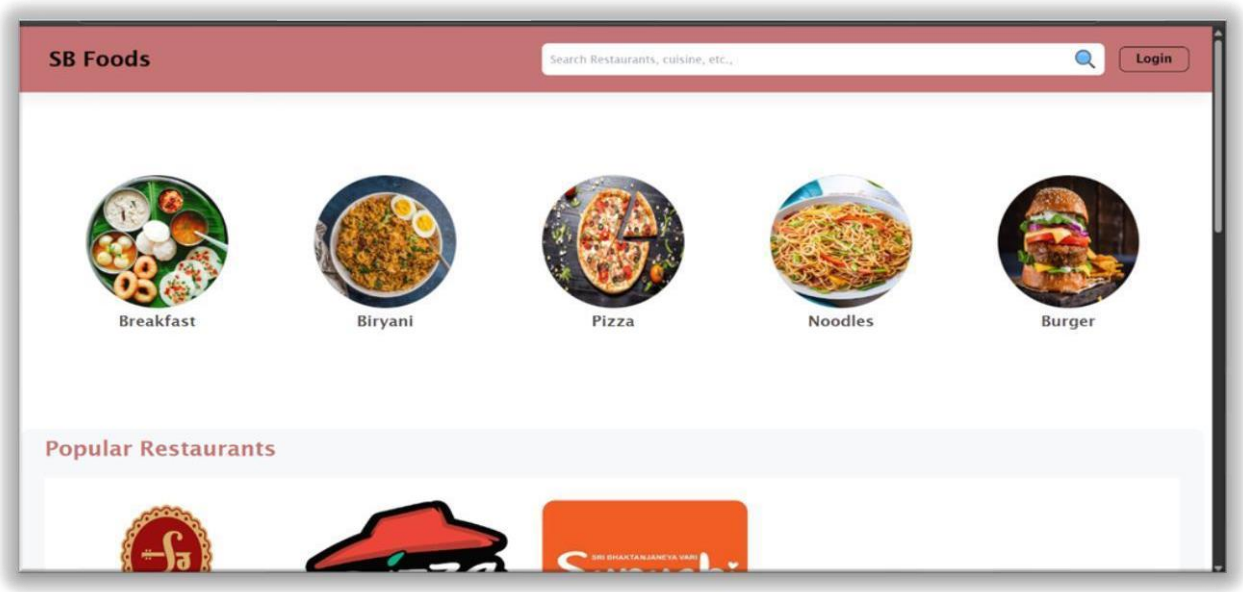
Frontend Setup

```
cd client
npm install
npm start
Runs on: http://localhost:3000
```

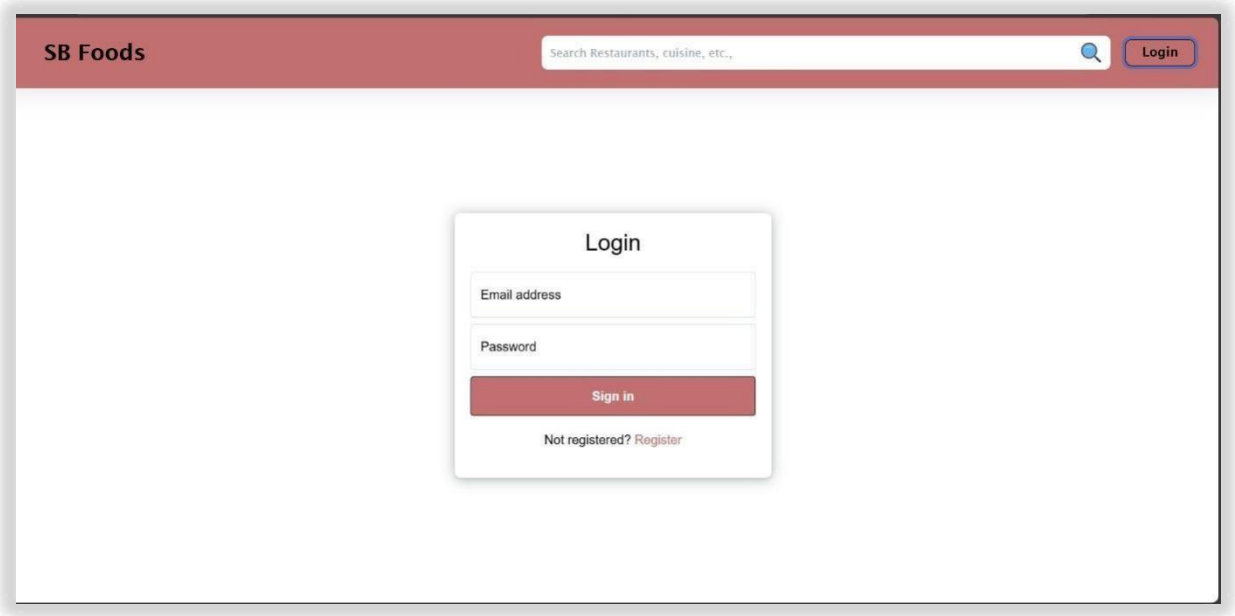
8.Database Development (Mongoose)

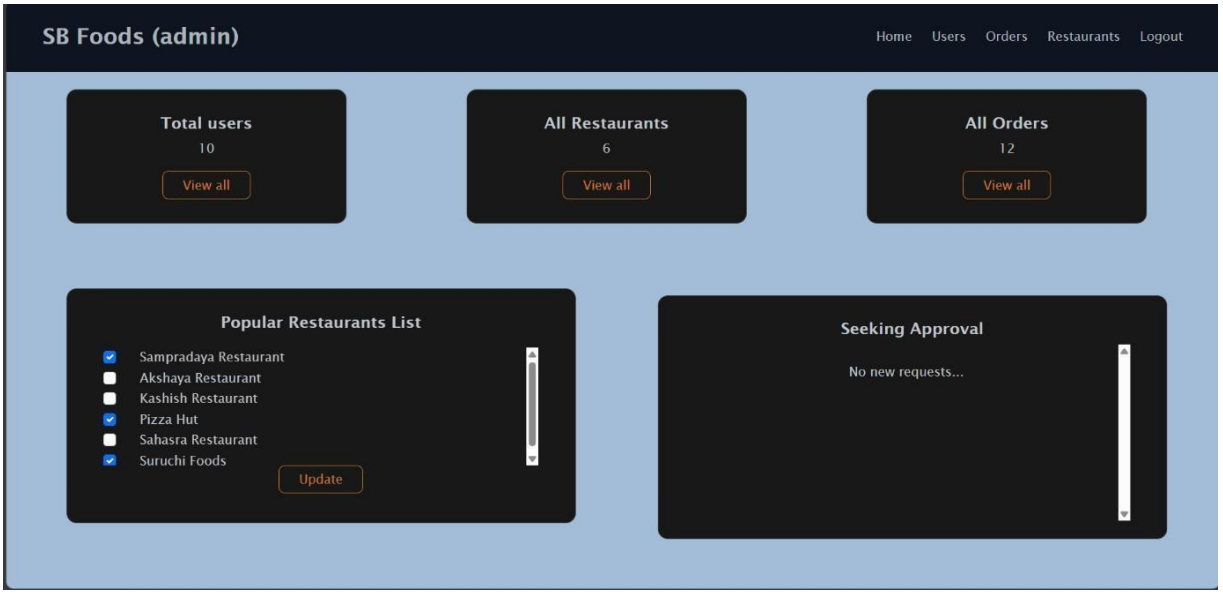
```
models/User.js
const mongoose = require('mongoose');
const userSchema = new mongoose.Schema({
username: { type: String, required: true, unique: true, minlength: 3 },
email: { type: String, required: true, unique: true, lowercase: true },
password: { type: String, required: true, minlength: 6 },
createdAt: { type: Date, default: Date.now }
});
module.exports = mongoose.model('User', userSchema);
```

9.User Interface:

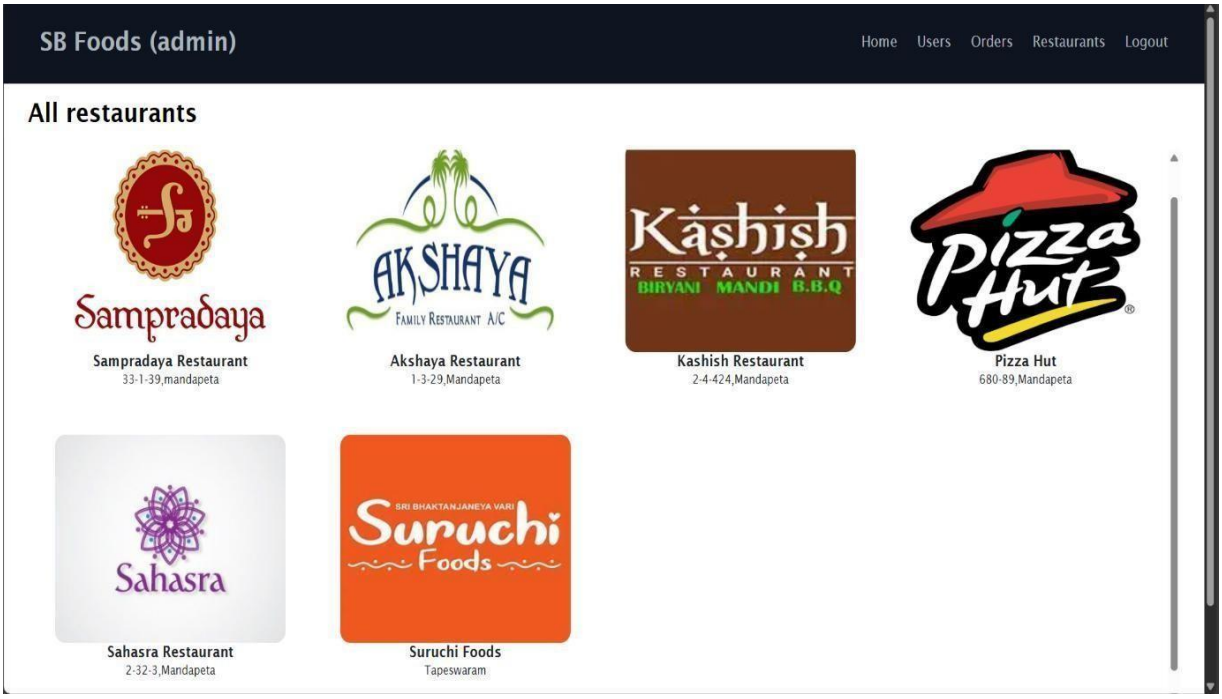


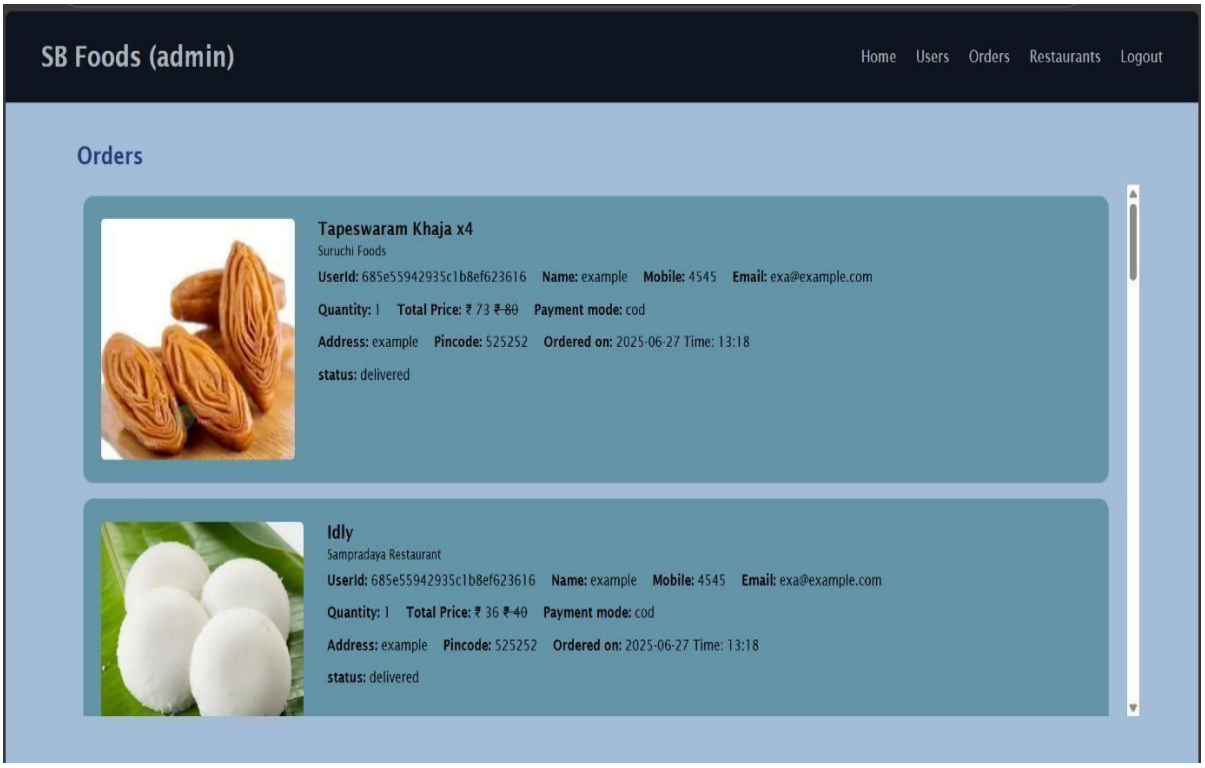
9.1.Home Page **9.2.Login Page**



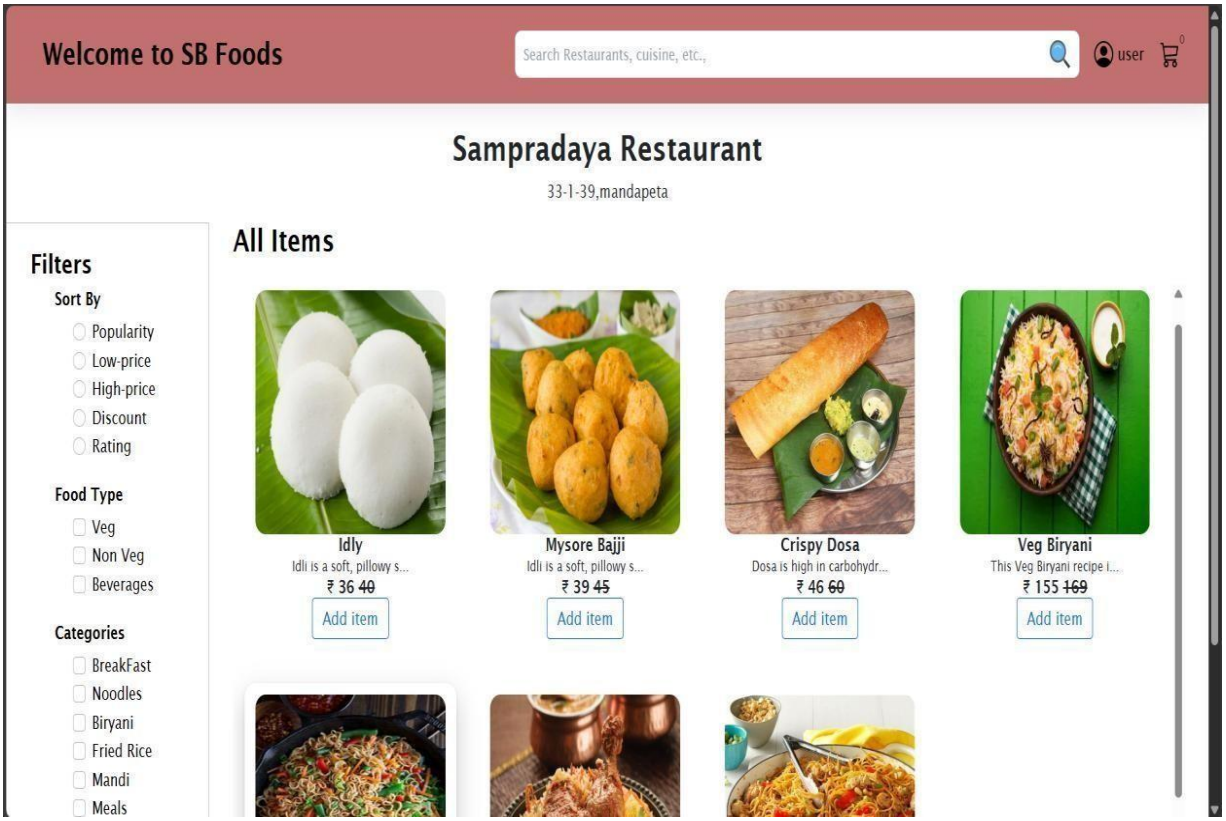


9.3.Admin Page **9.4.All Restaurants Page**

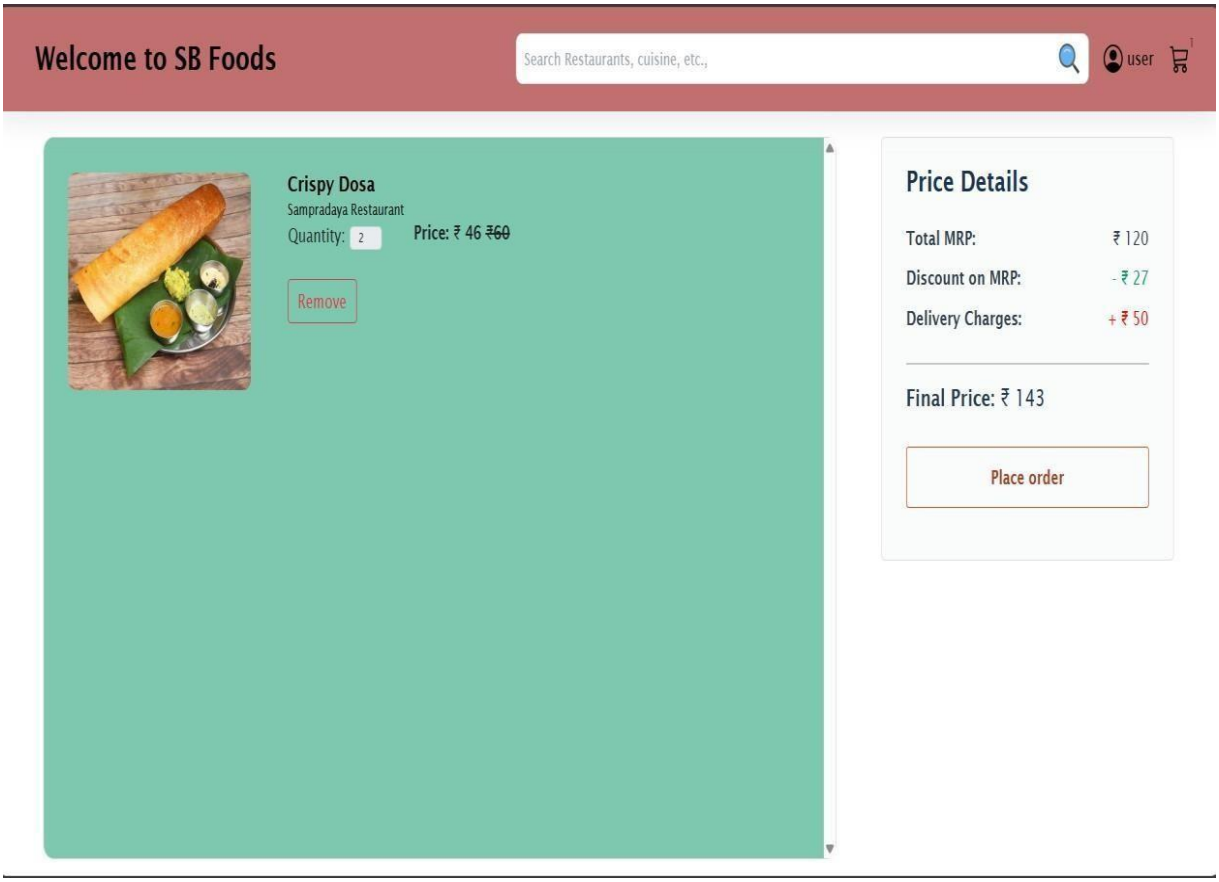




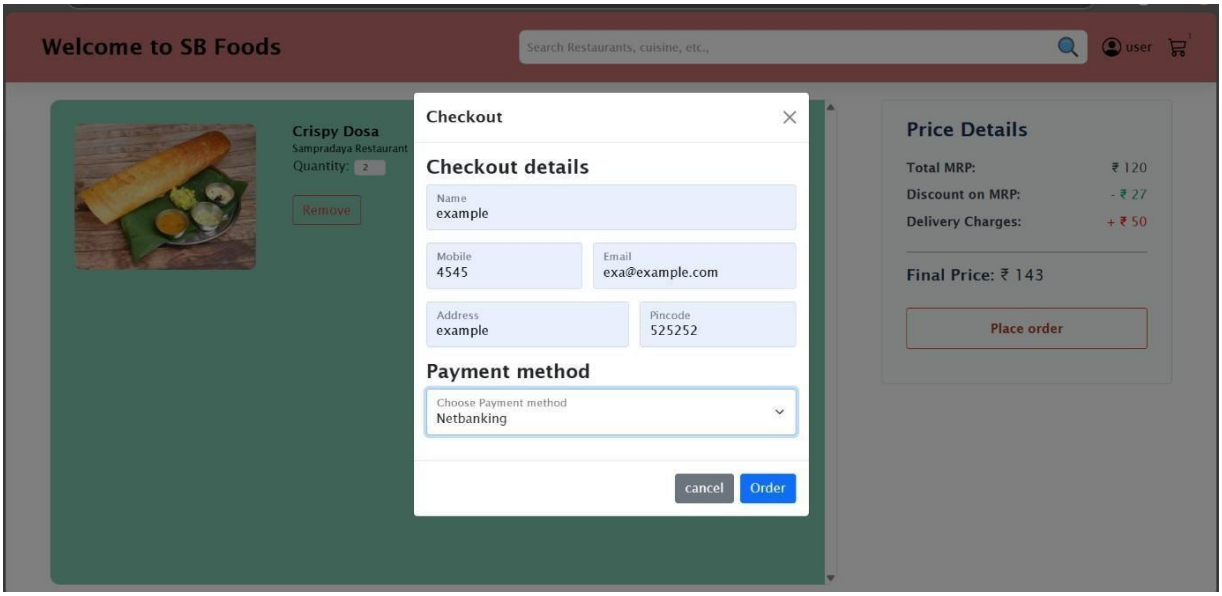
9.5.All Orders Page **9.6.Individual Restaurant Page**



9.7.Cart Page



9.8.Checkout Page



10.Testing:

Manual testing using Postman and browser. Tested routes, forms, and user flows.

11.Known Issues:

- Order cancelation logic incomplete
- Limited mobile responsiveness

Restaurant ratings and reviews not yet implemented

12.Future Enhancements:

- Online payment integration (e.g., NetBanking)
- Feedback and rating system
- Order delivery tracking
- Push/email/SMS notifications

13.Sample Code: Order Placement:

```
router.post('/order', async (req, res) => {  const
{ userId,  restaurantId,  items,  totalPrice } =
req.body;
try {
const order = new Order
        ({ userId, restaurantId, items, totalPrice, status: 'Placed' });
await order.save();  res.status(201).send('Order placed
successfully');
}  catch (err)
{
res.status(5
00).send('E
rror placing
order');
  }
});
```

14.Sample Code: MongoDB Schema

```
const userSchema = new mongoose.Schema({      username:
{type: String},     password: {type:
String},     email: {type: String},     usertype:
{type: String},
approval: {type: String}
});

const adminSchema = new mongoose.Schema({
   categories: {type: Array},
   promotedRestaurants: []
});

const restaurantSchema = new
mongoose.Schema({     ownerId: {type: String},     title:
{type: String},     address: {type: String},
mainImg: {type: String},
   menu: {type: Array, default: []}
})

const foodItemSchema = new mongoose.Schema({     title: {type:
String},     description: {type: String},     itemImg: {type: String},
category: {type: String}, //veg or non-veg or beverage
menuCategory: {type: String},     restaurantId: {type:
String},     price: {type: Number},     discount: {type:
Number},      rating: {type: Number}
})

const orderSchema = new mongoose.Schema({
   userId: {type: String},     name:
{type: String},     email: {type:
String},     mobile: {type: String},
```

```
address: {type: String},     pincode:
{type: String},     restaurantId:
{type: String},     restaurantName:
{type: String},     foodItemId:
{type: String},     foodItemName:
{type: String},     foodItemImg:
{type: String},     quantity: {type:
Number},     price: {type:
Number},     discount: {type:
Number},     paymentMethod:
{type: String},     orderDate: {type:
String},
   orderStatus: {type: String, default: 'order placed'}
})

const cartSchema = new mongoose.Schema({
   userId: {type: String},
restaurantId: {type: String},
restaurantName: {type: String},
foodItemId: {type: String},
foodItemName: {type: String},
foodItemImg: {type: String},
quantity: {type: Number},     price:
{type: Number},
   discount: {type: Number}
})
```