

Full Stack Development with MERN

Project Documentation

Project Title: ORDER ON THE GO - Online Food Ordering System

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2. Project Overview

Purpose:

ORDER ON THE GO is a full-stack web application designed to provide a seamless online food ordering experience. Users can browse restaurants and food items, add items to cart, and place orders securely. Admins can manage restaurants, menu items, users, and orders efficiently.

Features:

- User Registration and Login
- Product Browsing and Search
- Shopping Cart Management
- Order Placement and History
- Admin Dashboard
- Product Add/Update/Delete
- Role-Based Access Control
- Secure Authentication using JWT

3. Architecture

Frontend:

Developed using modern frontend framework (React/Angular). Handles UI rendering, routing, API calls, and responsive design.

Backend:

Developed using Node.js and Express.js. Implements RESTful APIs, business logic, authentication, and middleware.

Database:

MongoDB used as NoSQL database with Mongoose ODM. Collections include Users, Products, Orders, and Cart.

4. Setup Instructions

Prerequisites:

- Node.js and npm
- MongoDB
- Git
- VS Code
- Web Browser (Chrome/Firefox)

Installation Steps:

- Clone the repository from GitHub.
- Navigate to project directory.
- Run npm install to install dependencies.
- Start backend using npm run dev.
- Start frontend using npm start.
- Open <http://localhost:5100> in browser.

5. Folder Structure

Client Folder:

Contains src, components, pages, services, App.js, index.js.

Server Folder:

Contains models, routes, controllers, middleware, config, server.js.

6. API Documentation

- POST /api/register - Register user
- POST /api/login - Login user
- GET /api/products - Get products
- POST /api/products - Add product (Admin)
- PUT /api/products/:id - Update product
- DELETE /api/products/:id - Delete product
- POST /api/orders - Place order
- GET /api/orders - Get orders

7. Authentication

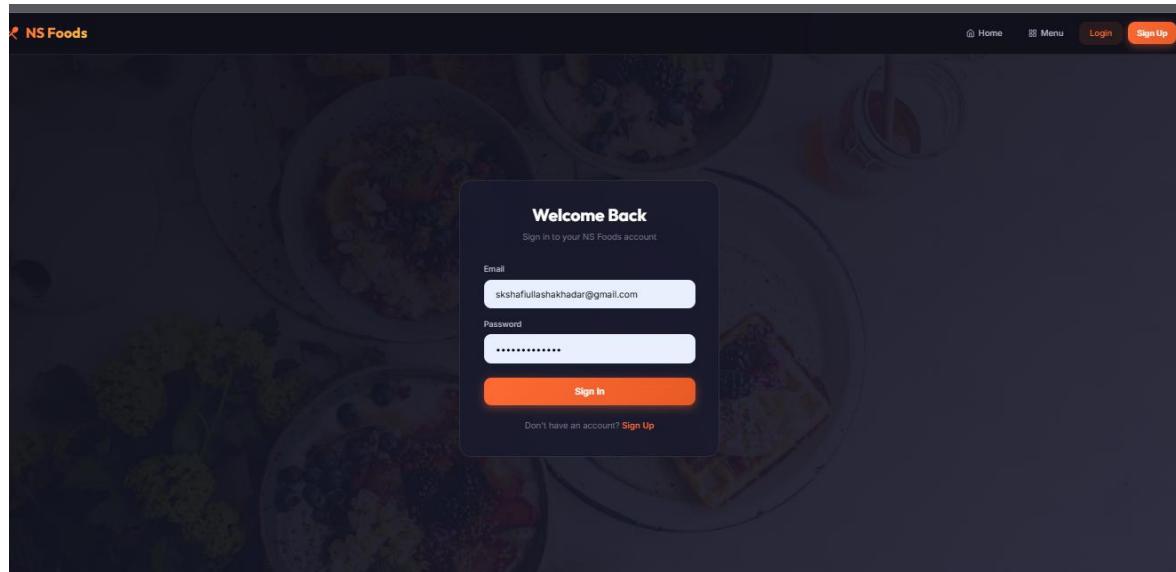
Authentication is handled using JWT tokens. Passwords are hashed using bcrypt. Role-based authorization is implemented for Admin and User access control.

8. Testing

API testing performed using Postman. Manual testing conducted for user flows including registration, login, cart management, and order placement.

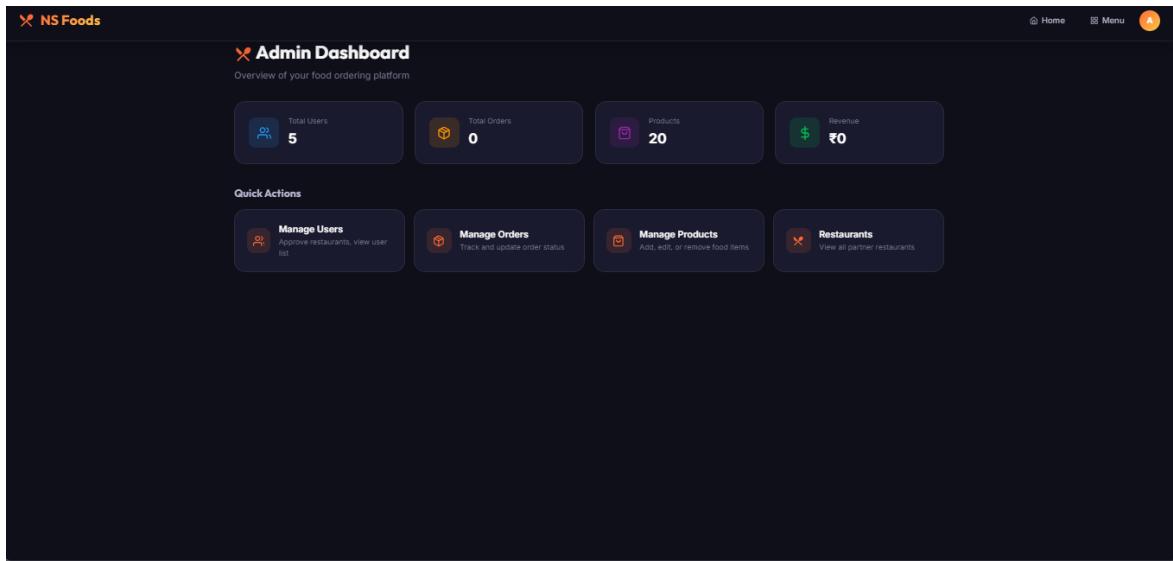
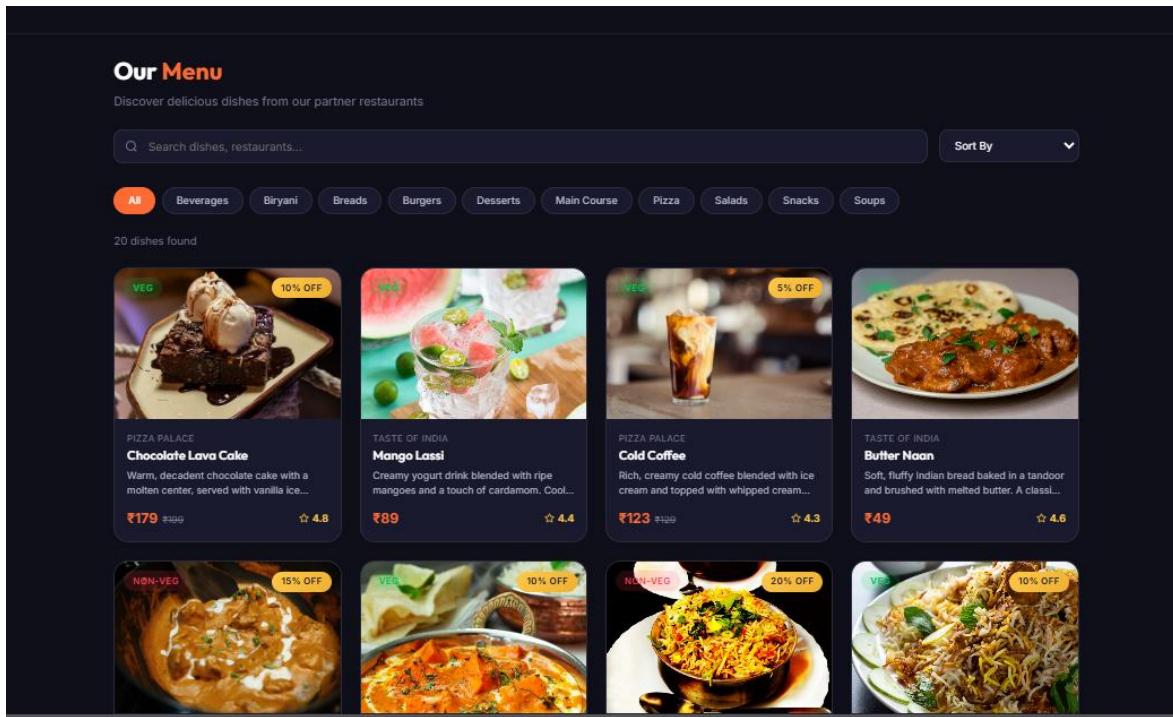
9. Screenshots / Demo

Demo link provided in project documentation Google Drive link:-



This screenshot shows two stacked sections of the application. The top section is titled "My Profile" with a user icon and the text "Manage your account details". It displays a profile card for a user named "admin" with the email "admin@nsfoods.com" and a blue "admin" badge. The bottom section is titled "Edit Profile" and contains form fields for "Username" (admin), "Email" (admin@nsfoods.com), and "New Password (leave blank to keep)" (redacted). A large orange "Save Changes" button is at the bottom.

9. Screenshots / Demo



10. Known Issues

Minor UI responsiveness issues. Payment gateway not fully integrated.

11. Future Enhancements

- Online Payment Integration
- Email Notifications
- Product Reviews and Ratings
- Mobile Application Version
- Performance Optimization