Project Report: OrderOnTheGo

1. INTRODUCTION

1.1 Project Overview

OrderOnTheGo is a full-stack MERN (MongoDB, Express.js, React.js, Node.js) food ordering web application. It provides three dedicated user rolesUsers, Restaurant Owners, and Adminsto streamline online food ordering and restaurant management.

1.2 Purpose

The project aims to create a seamless digital food ordering experience with real-time order tracking, role-based access, and admin management features.

2. IDEATION PHASE

2.1 Problem Statement

With the growing demand for online food delivery, small restaurants struggle to get visibility. Customers also face difficulty finding reliable food services nearby.

2.2 Empathy Map Canvas

- Users: Want fast, reliable food ordering with clear menus and easy checkout.
- Restaurant Owners: Need a simple platform to manage menus and orders.
- Admins: Require oversight tools to manage restaurants and ensure service quality.

2.3 Brainstorming

Role-based access, admin approvals, promotional features, centralized Axios configuration, and responsive UI features were considered.

3. REQUIREMENT ANALYSIS

3.1 Customer Journey Map

User browses restaurants, places an order; restaurant receives it and prepares food; admin monitors activity.

3.2 Solution Requirement

Authentication, order placement, menu and order management, centralized API interaction, admin dashboard.

3.3 Data Flow Diagram

3.4 Technology Stack

Frontend: React.js, Bootstrap
Backend: Node.js, Express.js
Database: MongoDB
Auth: Bcrypt
State/API: Axios
Deployment: Render

4. PROJECT DESIGN

4.1 Problem-Solution Fit

Addresses visibility for restaurants and streamlined ordering for users.

4.2 Proposed Solution

Responsive platform with dashboards, real-time updates, and promotions.

4.3 Solution Architecture

React Node/Express MongoDB. Centralized Axios for API handling.

5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

Phased plan from requirement gathering to deployment over ~15 days.

6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Performance Testing

Tested API response, UI responsiveness, and multi-user load.

7. RESULTS

Project delivers seamless user experience, admin control, and real-time restaurant management.

8. ADVANTAGES & DISADVANTAGES

Advantages:
1. Multi-role support
2. Secure login
3. Rich UI
4. Easy deployment
5. Centralized API

Disadvantages:
1. No real-time updates
2. Lacks payment gateway
3. Manual admin creation

9. CONCLUSION

OrderOnTheGo demonstrates a scalable and user-centric MERN stack application with complete food ordering functionality.

10. FUTURE SCOPE

1. Live tracking
2. Payment integration
3. Mobile app
4. Analytics dashboard
5. Advanced search

11. APPENDIX

Source Code: https://github.com/Dinesh0007000/OrderOnTheGo
Frontend: https://orderonthego-client-pcbh.onrender.com
Admin: admin@example.com / admin123