

GourmetGo- Food Delivery System –

Project Documentation

1. Introduction



This document provides an in-depth explanation of the GourmetGo food delivery system project, detailing its technologies, architecture, and workflow. It includes insights into the frontend, backend, and administrative functionalities.

2. Technologies Used

Frontend:

- **Framework:** React.js
- **Styling:** CSS, Tailwind
- **State Management:** React Context API
- **Routing:** React Router
- **Package Manager:** npm/yarn

Backend:

- **Framework:** Node.js (Express.js)
- **Database:** MongoDB / MySQL (to be confirmed)

- **Authentication:** JWT (JSON Web Tokens)
- **API:** REST API for communication with frontend

Admin Panel:

- **Framework:** React.js / Angular (if separate)
 - **Backend Integration:** Fetching analytics, managing orders and users
 - **Dashboard:** Tracks sales, user activities, and order status
-

3. Project Structure

Frontend Structure (React.js)

- **Components:** UI elements such as Navbar, Food Display, Cart, Order Summary
- **Pages:** Home, Cart, Order History, Checkout
- **Context API:** Handles user authentication, cart, and order states
- **API Calls:** Communicates with backend endpoints for data retrieval and updates

Backend Structure (Node.js/Express.js)

- **Authentication Module:** Handles user login/signup using JWT
- **Order Management:** Processes food orders, stores in database
- **Cart Management:** Adds/removes items, calculates total
- **Payment Processing:** Integrates with payment gateway for transactions
- **Admin API:** Provides access to admin dashboard data

Admin Panel Features

- **User Management:** Add/remove users, view details
 - **Order Monitoring:** Track real-time orders, statuses
 - **Restaurant Menu Management:** Modify available food items
 - **Revenue Analytics:** View reports on sales and transactions
-

4. Workflow Overview

1. **User visits the GourmetGo website** -> Browses food menu
2. **User adds items to the cart** -> Cart updates in real-time

3. **User proceeds to checkout** -> Selects payment method
 4. **Backend processes the order** -> Stores data in database
 5. **Payment is verified** -> Transaction completed
 6. **Admin monitors orders** -> Ensures timely delivery
-

5. Summary

GourmetGo enables users to browse and order meals via a user-friendly interface. The backend manages orders, authentication, and payments, while the admin panel provides business insights and control over transactions. The project follows a scalable approach, allowing for future enhancements and integrations.