Project Roadmap: P3 Food Delivery App

Project Roadmap

This project consists of four main parts:

- Frontend (React.js): User interface for browsing, ordering food, and tracking deliveries.
- Backend (Express.js & Node.js): Handles authentication, order management, and restaurant data.
- Database (MongoDB): Stores user details, restaurant info, orders, reviews, and analytics.
- AI Features: Personalized recommendations, demand forecasting, and chatbots.

Features Breakdown

- 1. User Authentication: Secure login, sign-up, profile management.
- 2. Restaurant Listings: Browse restaurants with categories (Al: Personalized recommendations).
- 3. Food Recommendations: Al-based food recommendation system.
- 4. Search & Filters: Search food/restaurants (AI: NLP-based search ranking).
- 5. Order Placement: Add to cart, checkout, payments.
- 6. Delivery Tracking: Real-time delivery status.
- 7. User Reviews & Ratings: Leave feedback on food/restaurants (AI: Sentiment analysis).
- 8. Admin Dashboard: Manage restaurants, orders, users.
- 9. Demand Prediction: ML-based demand forecasting.
- 10. Chatbot Support: Al-powered chatbot for food ordering.

How We Start This Project

- 1. Set Up Repository:
 - Initialize GitHub repo with separate folders for frontend & backend.
 - Install dependencies for React, Express, and MongoDB.
- 2. Backend Development:
 - Build Express.js server and set up MongoDB database.
 - Implement user authentication with JWT.
- 3. Frontend Development:
 - Set up React project with TailwindCSS.
 - Develop pages for login, restaurant listing, cart, and checkout.

4. Al & Advanced Features:

- Train and integrate ML models for food recommendations.
- Implement sentiment analysis on user reviews.

5. Deployment & Testing:

- Deploy backend using Render/Vercel and frontend with Netlify.
- Implement CI/CD for automated testing and updates.

User Stories

Customer:

- As a customer, I want to browse restaurants, so I can see available options.
- As a customer, I want to add food to my cart, so I can place an order.
- As a customer, I want to track my delivery in real-time, so I know when my order arrives.

Restaurant Owner:

- As a restaurant owner, I want to manage my menu, so I can update food items.
- As a restaurant owner, I want to see incoming orders, so I can prepare food quickly.

Delivery Partner:

- As a delivery partner, I want to receive new orders, so I can pick them up and deliver.
- As a delivery partner, I want to update the delivery status, so customers know the progress.

Admin:

- As an admin, I want to manage all users, so I can ensure platform security.
- As an admin, I want to generate reports, so I can monitor platform performance.