

FOOD Delivery App

1. User Module

Features:

- Register/Login (with OTP/email verification)
- Search restaurants (by cuisine, rating, distance)
- Add items to cart
- Place order
- Live order tracking on map
- Payment gateway integration
- Order history
- Profile management
- Ratings & Reviews

2. Hotel / Restaurant Module

Features:

- Register/Login
- Restaurant profile setup (images, description, menu)
- Add/Edit/Delete menu items
- View incoming orders
- Update order status (Preparing → Ready → Dispatched)
- Earnings Dashboard
- Review/Rating visibility

3. Delivery Partner Module

Features:

- Register/Login
- Verify documents (Aadhar, license)
- View assigned deliveries
- Accept/Reject order
- Pick-up and drop tracking via map
- Mark delivery as complete

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- Earnings tracker
- Support/Help Chat

4. Admin Module

Features:

- Admin login dashboard
 - Manage users, restaurants, delivery partners
 - Approve/Reject restaurant and partner applications
 - View earnings, orders, live statuses
 - Reports and analytics (daily, monthly)
 - Block/Unblock users/restaurants/partners
 - Support handling
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Map Integration

- Use **Google Maps API** or **Mapbox**.
 - Required in:
 - User side (select pickup & delivery address)
 - Delivery partner (real-time tracking)
 - Hotel side (pickup location display)
 - Admin dashboard (visual analytics)
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FINAL PROJECT STRUCTURE

1. User Module (React Native App)

Features:

- **Register/Login** (OTP or email verification using Twilio or Firebase Auth)
- **Restaurant Search:** By cuisine, rating, or distance (Google Maps + Geo Queries).
- **Add to Cart:** Manage items and quantities.
- **Place Order:** Integrated with backend order management.
- **Live Order Tracking:** Real-time map tracking of delivery partner.

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- **Payment Gateway Integration:** Razorpay / Stripe for secure payments.
 - **Order History:** View past orders.
 - **Profile Management:** Edit profile, addresses, etc.
 - **Ratings & Reviews:** Rate restaurants and dishes.
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2. Hotel/Restaurant Module (React Native App)

Features:

- **Register/Login:** With verification.
 - **Restaurant Profile Setup:** Add images, description, menu details.
 - **Menu Management:** Add/Edit/Delete items.
 - **View Incoming Orders:** With real-time updates.
 - **Update Order Status:** (Preparing → Ready → Dispatched).
 - **Earnings Dashboard:** View revenue, best-selling items.
 - **Reviews & Ratings:** See customer feedback.
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3. Delivery Partner Module (React Native App)

Features:

- **Register/Login:** Document verification (Aadhar, license).
 - **View Assigned Deliveries:** Orders assigned by the system/admin.
 - **Accept/Reject Orders:** Real-time order allocation.
 - **Pick-up & Drop Tracking:** Integrated with Google Maps.
 - **Mark Delivery as Complete:** With proof (e.g., photo or OTP).
 - **Earnings Tracker:** Daily and monthly reports.
 - **Support/Help Chat:** Chat with admin/support.
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4. Admin Module (React.js Web Panel)

Features:

- **Admin Login Dashboard:** Analytics and KPIs.

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- **Manage Users, Restaurants, Delivery Partners:** Approve/reject applications.
 - **View Orders & Earnings:** Track order statuses.
 - **Reports & Analytics:** Daily, weekly, monthly reports with charts.
 - **Block/Unblock Accounts:** Manage violations.
 - **Support Handling:** Chat or ticketing.
 - **Map Visualization:** Real-time delivery locations.
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5. Map Integration

- **Google Maps API or Mapbox**
 - **User:** Select pickup & delivery address.
 - **Delivery Partner:** Real-time tracking and route optimization.
 - **Hotel:** Display pickup locations.
 - **Admin:** Visualize active orders/deliveries.
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6. Enhancements

1. **Food Donation to Orphanages:**
 - Restaurants can mark leftover food for donation.
 - Notifications sent via SMS/WhatsApp to nearby orphanages.
 2. **Notifications:**
 - **WhatsApp Business API:** Order confirmations and updates.
 - **Twilio/Nodemailer:** SMS and email alerts.
 3. **Billing Software:**
 - Auto-generate PDF invoices for every order using **pdfkit**.
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PROJECT ARCHITECTURE

- **Frontend (Apps):** React Native (User, Restaurant, Delivery Partner)
- **Admin Panel:** React.js (Vite + Tailwind + Charts.js/Recharts for analytics)
- **Backend API:** Node.js + Express.js

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- **Database:** MySQL (with Sequelize ORM)
 - **Authentication:** JWT + bcrypt (for security).
 - **Real-time Updates:** Socket.IO (for order status, tracking).
 - **File Uploads:** Cloudinary (for restaurant images, menu).
 - **Payment:** Razorpay/Stripe integration.
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PHASE-WISE DEVELOPMENT PLAN

Phase 1: Backend API Setup

- Node.js + Express + MySQL (Sequelize)
- Auth module (Register/Login with JWT & OTP)
- CRUD for Users, Restaurants, Delivery Partners

Phase 2: User App

- Login/Register
- Home screen (restaurants, categories)
- Cart, Checkout, Payment, Order Tracking

Phase 3: Restaurant App

- Restaurant dashboard, menu management, order updates

Phase 4: Delivery Partner App

- Delivery assignment, route tracking, earnings

Phase 5: Admin Panel

- Analytics, user/restaurant/partner management

Phase 6: Enhancements

- Notifications, Billing, Food Donation, WhatsApp API