

Food Delivery System — Project Documentation

1. Overview

The Food Delivery System is a web-based application that allows customers to order food online, track their orders, and receive deliveries through a network of delivery personnel.

The system provides separate interfaces for **Admin**, **Customers**, and **Delivery Men**, each with specific features based on their assigned roles.

2. System Users & Roles

2.1 Customer

- Sign up and log in using email and password
- Browse categorized food products
- Add products to the shopping cart
- Place an order
- Track order status in real-time
- View order history and ratings

2.2 Admin

- Access a centralized dashboard
- Monitor all orders and delivery statuses
- View ratings and generate reports
- Manage products and categories
- Manage users (customers, delivery men)
- Assign roles and permissions
- Oversee delivery operations

2.3 Delivery Man

- Log in and access delivery tasks
 - Update availability status (Ready / Busy)
 - Receive automatically assigned orders
 - View delivery details and customer location
 - Mark delivery as completed
 - Track their earnings from delivery fees
 - Store personal information (license, vehicle type, etc.)
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3. Core Features

3.1 Authentication & Authorization

- User registration (customers)
 - User login
 - Role-based access control
 - Pages and features are shown based on user role
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3.2 Product Management

- All products (food items) are organized into categories
 - Admin can add, edit, delete products
 - Customers can filter or browse by category
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3.3 Shopping Cart

- Customers can add/remove items
 - Update item quantities
 - Checkout and place orders
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3.4 Orders

- Order is created when customer checks out
 - Admin dashboard receives all new orders
 - Order is automatically assigned to an available delivery man
 - Delivery man handles and delivers the order
 - Customer can track progress:
 - Pending
 - Preparing
 - Out for Delivery
 - Delivered
 - Delivery man marks the delivery as complete
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3.5 Delivery Management

- Delivery man sets status:
 - **Available** → ready to take new orders
 - **Busy** → currently delivering
 - System auto-assigns new orders to available delivery men
 - Delivery fee is added to delivery man's earnings
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3.6 Ratings & Reports

- Customers can rate orders

- Admin can view rating trends
 - Admin dashboard contains analytics and reports (orders per day, deliveries, revenue, etc.)
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4. Data Storage

The system stores:

User Info

- id
- first name
- last name
- email
- password
- phone
- gender
- created_at
- Role (Admin / Customer / Delivery Man)

Delivery Man

- license_plate
- license_number
- vehicle_type
- status (ready/busy)

Admins

- date_employed

Products

- id
- name
- description
- price
- category
- Image

Orders

- Customer ID
- Products & quantities
- Total price
- delivery fees
- sub total
- Order status
- location

- Assigned delivery man
 - date_placed
 - date_arrived
 - rating
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5. Workflow

1. **Customer signs up → logs in → browses products**
2. Adds items to cart → places an order
3. Order sent to **Admin Dashboard**
4. System looks for **available** delivery man
5. Order automatically assigned
6. Delivery man sees order → accepts → delivers
7. Customer tracks status
8. Delivery man marks as completed
9. Fees transferred to delivery man
10. Admin monitors all activities via dashboard