Product Requirement Document (PRD)

Project Name: Product Delivery System

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Version: 1.0

1. Introduction

Purpose: To design and develop a system that manages product orders, tracks deliveries, and ensures timely delivery to customers.

Scope: The system will allow customers to place orders, delivery agents to pick and deliver, and admins to monitor the entire process.

2. Objectives

- 1. Enable customers to browse, order, and pay for products.
- 2. Track orders in real-time.
- 3. Allow delivery agents to update status.
- 4. Provide admin panel for monitoring and reporting.

3. Stakeholders

- Customer: Places order, tracks delivery.
- Delivery Agent: Picks up and delivers products, updates status.
- Admin: Manages products, orders, delivery agents, and reports.

4. Functional Requirements

Customer Features

- Register/Login
- Browse products
- Add to cart & checkout
- Payment (COD / online)
- Order tracking (real-time)
- Notifications

Delivery Agent Features

- Login
- View assigned orders
- Update status
- Route assistance

Admin Features

- Manage users
- Manage inventory
- Assign orders
- Dashboard with reports

5. Non-Functional Requirements

- Scalability
- Security
- Performance
- Reliability

6. System Workflow

- 1. Customer places order \rightarrow system confirms order.
- 2. Admin assigns delivery agent.
- 3. Delivery agent picks product.

- 4. Agent updates status \rightarrow customer notified.
- 5. Agent delivers product → system marks complete.

7. Technology Stack

Frontend: React / Flutter
Backend: Node.js / Django
Database: MySQL / MongoDB
Payments: Razorpay / Stripe
Notifications: Firebase / Twilio

8. Success Metrics

- 95% orders delivered on time.
- <2% failed deliveries.
- Customer satisfaction rating $\geq 4/5$.

9. Future Enhancements

- Al-based route optimization.
- Customer feedback system.
- Loyalty rewards and discounts.