Change Request Document (CRD)

Project Information

Project Title: Online Shopping Cart System

Change Request ID: CR-001-2025

Date of Request: 2025-06-29

Requested By: Niladri Goswami

Role: Project Contributor / Analyst

Change Type: Functional Enhancement

1. Description of the Proposed Change

Current System Limitation:

The system supports only Cash on Delivery (COD) as a payment method.

Proposed Change:

Introduce an additional online payment gateway (e.g., Razorpay/Paytm/UPI/Net Banking integration) to support online transactions for improved customer convenience and operational efficiency.

2. Reason for the Change

- Growing customer demand for digital payments.

- Align with modern e-commerce trends and customer expectations.

- COD presents operational and logistical risks (e.g., failed deliveries, cash handling).

3. Impact Analysis

Functionality: Users will have multiple payment options during checkout.

UI/UX: Update checkout page to include payment mode selection and status.

Database: Add transaction/payment tables to store payment details.

Security: Integration with SSL and PCI-compliant APIs is required.

Testing: Additional test cases for online payment success/failure scenarios.

Timeline: Additional 2 weeks development and 1 week testing required.

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4. Priority

High - Enhances core functionality and user experience.

5. Approval Section

```
Approver          | Role          | Signature | Date
--------------------|-----------------|----------|-----
Dr. Soumik Das      | Project Guide   |          |
Niladri Goswami     | Analyst         |          |
Souvik Basu         | Developer       |          |
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6. Implementation Plan (If Approved)

- Week 1: Research and finalize payment gateway provider

- Week 2: Backend integration (API calls, database updates)

- Week 3: Frontend development (checkout UI updates)

- Week 4: Testing (unit + integration) and deployment

7. Attachments

- Existing checkout flow screenshots

- Payment gateway API documentation (to be linked later)