

2) Credit Card Processing system:

1. Introduction:

1.1 Purpose of the document: The purpose of the document is to define the requirements of the credit card processing system. Document also ^{contains} ~~provides~~ the outline of the features and objectives of the system.

1.2 Scope of this document: This document provides

the detailed description of the system that includes functions for credit card authorization, fraud detection and settlement.

1.3 Overview: It provides secure platform between e-commerce platforms, customer and financial institutions. that handles credit card authorization, fraud detection and settlement.

2. General Description:

This system ensures secure credit card processing for online transactions. It integrates with third-party payment gateway and banks for complete transaction management.

3. Functional requirements:

- Card authorization - verifies detail such as card number, CVV and expiration date
- Transaction approval - based on authorization results
- Fraud Detection - identifying suspicious transactions

4. Interface Requirements:

- API Integration: Integrating system with e-commerce platforms and payment gateways.

5. Performance requirements:

- System must handle upto 1000^{simultaneous} transactions.
- Response time must be short.

6. Design Constraints:

- System should support integration with payment gateway such as Phonepay, Googlepay etc.
- System should ensure secure handling of credit card data.

7. Non-Functional attributes:

- Security: Securing credit card details through advanced encryption
- Reliability: Response time must be short
- Maintainability: System should include less maintenance cost.

8. Preliminary Schedule and Budget:

- Development time: 10 months
- Estimated cost: \$1,000,000
 - Requirement analysis - \$250,000
 - Design and implementation - \$550,000
 - Verification and validation - \$150,000
 - Evolution - \$150,000

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