

## 2. Credit card Processing system SRS.

### 1. Introduction:

1.1 Purpose of this document: This document defines the requirements for credit card processing system.

1.2 Scope of this document: system will process credit card transactions, ensuring secure connection and minimum fraud risks.

1.3 Overview: Credit card Processing system will enable online merchants to process payments securely offering features like fraud detection, payment authorization and settlement.

2. General Description: In this system online merchants and payment processors are served. It verifies, authorizes and settles transactions. It generates secure gateways for transactions. Primary users include merchants, payment processors and financial institutions.

### 3. Functional Requirements:

- Payment gateway: secure gateway for transactions
- Credit card verification: verifying credit card before processing payment
- Fraud detection: Implement fraud detection algorithm based on transaction behaviour
- Transaction log: Record all transactions
- Settlement: Transfer funds between banks and user accounts.

#### 4. Interface Requirements:

- User Interface: User dashboard with account access to make transactions.
- System Interface: Integrated with bank systems, payment gateways and fraud detection servers.

#### 5. Performance Requirements:

- System should be able to complete transactions in 10 seconds
- System should be able to handle up to 10,000 transactions per minute during peak hours.

#### 6. Design Constraints:

- Should be developed using Java for compatibility with user systems.

#### 7. Non-Functional Attributes:

- Security: Should have end-to-end encryption for all transactions
- Portability: Should be platform independent
- Scalability: Capable of handling increasing number of users and transactions

#### 8. Preliminary schedule and Budget:

Deployment should take around 6 months under the budget of \$ 500,000 including deployment.

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