

2. Credit Card Processing System SRS

1. Introduction:

- 1.1 Purpose of this document: This document details the requirement 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 feature like fraud detection, payment authorization and settlement.

2. General Description: In this system online merchants and payment processes are secured, verified, authorized and settle transactions, generally secure gateways for transactions.

Primary users: merchants, payment processors and financial institutions.

3. Functional Requirements:

- Payment gateways: secure gateway for transactions
- Credit card verification: Verifies credit card before processing payment
- Transaction logs: Logs of all the transactions occurred
- Fraud detection: implement fraud detection algorithm based on transaction activity

4. Interface Requirements:

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- User Interface: user dashboard with amount areas to make transactions.
- System Interface: Integrated with bank systems payment gateways and fraud detection service

s. Performance Requirements:

- System should be able to complete transactions in 10 sec
- It should handle upto 10,000 transactions per minute during peak hour.

6. Design Constraints:

Should be developed using Java for compatibility with user systems

7. Non Functional Attributes

- Security: implement 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 2 months under the budget of \$500,000 including deployment.

Requirement: \$30,000 / 2 months Testing: \$100,000 / 1 month

Design: \$70,000 / 2 months

Development \$300,000 / 3 months