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. generates 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:

4. User

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- User Interface: user dashboard with amount access to make transactions.

- System Interface: Integrated with bank systems payment gateways and fraud detection service

5. Performance Requirements:

- System should be able to complete transactions in 10 sec

- It should handle upto 10,000 transactions per minute during peak hours

6. Design Constraints:

Should be developed using java for compatability 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 8 months under the budget of $500,000 including deployment

Requirement: $30,000/2 months   Testing: $600,000/1 month

Design: $70,000/2 months

Development $300,000/3 months