SRS document for credit card processing System

1 Introduction

1.1 Purpose of the requirements doc to specify the software requirements for credit card processing system

1.2 Scope The system will facilitate secure processing of credit card and transaction for merchants and consumers, supporting various payment methods and ensuring compliance with industry standards.

1.3 Overview → Automates payment processing, including transaction validation, fraud detection and reporting for merchants and customers.

2) General Description

Enhances transaction management and user exp for merchants and customers, ensuring secure and quick payment processing.

3) Functional Requirements.

- User management → Register, update & deactivate users
- Transaction processing → Validate and authorize and complete credit card transactions
- Fraud detection → Monitor and flag suspicious transactions

4) Interface reqn.

- Web based UI for merchant and administrators
- API integration for third party applications.

- Email and SMS notif for transaction status

5.7 Performance req
- Response time: ≤ 3 secs for transaction proce...
- User support: upto 1000 simul. users
- Error rate: $< 0.5\%$

6.7 Design constraints
- web based solution compatible with major browsers and mobile devices
- Use PostgreSQL for the database

7.7 Non func^n Attributes.
- Security: TLS encryption for data transmission and secure storage for cardholder data.
- Scalability: Supports an increase in transaction volume
- Reliability: 99% uptime with backup and recovery features.

8.7 Preliminary Schedule and Budget
- Development time: 8 months
- Budget: 175000 Rs