

Software Requirement Specification

2. Credit card processing System

2. Credit Card Processing System

1. Introduction

- Purpose: To securely process online and offline credit card transactions.
- Scope: Enables secure and fast payment processing for businesses.

2. General Description

- Users: Merchants, Customers.
- Benefits: Secure, fast transactions and fraud detection.

3. Functional Requirements

- Transaction Authorization
- Fraud detection
- Transaction history reporting

4. Interface Requirements

- API Integration with Merchant websites and POS Systems

5. Performance Requirements

- Real-time transaction processing (under 2 seconds per transaction)

6. Design Constraints

- Must Comply with PCI-DSS security standards

7. Non Functional Requirements

- Security: Encryption and fraud protection
- Reliability: 99.9% uptime to handle transactions continuously
- Scalability: Capable of processing millions of transaction

8. Budget Estimate

- Time: 4 months
- Cost: \$120,000 - \$150,000

Class Diagram:

