

SRS Document for

CREDIT CARD PROCESSING

1. Problem Statement:- The increasing number of online & offline transactions requires a secure and efficient way to process credit card payment. Manual verification is slow, error-prone and vulnerable to fraud.

2. Introduction

(i) Purpose:- To automate the authorization, authentication and settlement of credit card transactions. System ensures confidentiality, accuracy and compliance with banking standards.

(ii) Scope:-

- Validate customer details
- Authorize transactions in real time
- Process payments securely.
- Provide transaction history for users and merchants.

3. General Description:-

System will act as middleware between merchants and banks. It will communicate with external banking networks for authorization and settlement.

4. Functional Requirements:-

User authentication, transaction Authorization, payment processing, transaction history, error handling, security.

5. Non-Functional Requirements:-

- Performance - must handle 5000+ transactions per second.
- Security:- End-to-End encryption with SSL/TLS and tokenization.
- Reliability - Automatic backup and failover system.
- Usability:- User-friendly merchant and admin dashboards.
- Scalability:- System should support global merchant expansion.

Budget:

