

2.7 SRS for Credit Card Processing System

1. Introduction:

1.1 Purpose of this document: This document outlines the Software Requirement for the credit card processing system. It serves to provide the stakeholders with a clear understanding of the functionalities, design constraints and overall goals of software. The purpose is to ensure all parties are aligned on expectations & requirements facilitating a smoother development process.

1.2 Scope of this document: This SRS details the objectives, features & user requirements for both systems. It will also address estimated development costs & timeline. The system focuses on secure & efficient transaction handling.

1.3 Overview

The Credit Card processing system aims to stream and enable secure transactions, including authorization, capture and reporting functionalities.

General description :-

Objectives :- Enable fast, secure payment processing.

Characteristics :- Merchants, customers, finance personnel.

Features :- secure payment gateway, transaction history, fraud detection.

Benefits :- Enhanced security, reduced transaction times and better customer trust.

Importance :- Critical for any business that processes payments to maintain customer trust and comply with regulations.

Functional Requirement :-

Transaction Authorization : Validate card info & ensure funds are available.

Transaction Capture :- Complete the transaction &

Transfer funds.

Fund Processing : Allow merchants to process refunds as necessary.

Logging :- Provide transaction history & reporting or reconciliations.

Fraud Detection :- Monitor transactions for potentially fraudulent activity.

Interface Requirement

User Interface :- Merchant portal for managing transactions & settings.

API Interfaces :- Secure APIs for transaction processing & reporting.

Continuous Data Stream :- Continuous monitoring of transacting activities.

Performance Requirements

Transaction must be completed in 3 seconds.

At least 99.99% uptime to ensure the reliability.

Less than 0.01% of transactions result in errors.

6. Design Constraints:

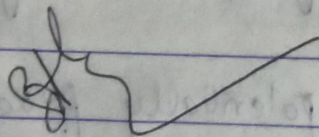
- 1) Must be compatible with existing systems & ports.
- 2) Must adhere to PCI-DSS security standards.
- 3) limited to specific encryption algorithms sensitive data.

7. Non-functional Attributes

- 1) Reliability:- System must consistently process p without failure.
- 2) Portability:- Can be deployed on multiple platforms (web, mobile).
- 3) Data integrity:- ensure accuracy of transaction and prevent tampering.

8. Preliminary Schedule and Budget

- 1) Estimated development time: 4 months
- 2) Estimated Budget: \$100,000.



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Credit Card Processing

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