

# Credit Card Processing

## 1] Problem Statement:

The existing credit card processing system lacks efficiency and security measures, leading to potential fraud risks & customer dissatisfaction. An upgraded credit card processing system is imperative to ensure seamless transactions, enhance security & maintain customer trust.

## 2] Introduction:

### 2.1:- purpose of this document:-

→ The purpose of this document is to outline the specifications and requirements for the development of a credit card processing system (CCPS).

### 2.2:- Scope of this Document:-

→ This document defines the overall working & objectives of the CCPS. Additionally, it outlines the development cost & time required for the project.

### 2.3:- Overview

The CCPS is designed to facilitate the processing of credit card transactions securely and efficiently.

## 3] General Description:-

The CCPS facilitates the following functions:-

- Authorization of credit card transactions in real-time



- Settlement of transactions, including capturing funds & generating receipts.
- Management of customer accounts & payment methods.
- Integration with payment gateways & merchant service providers.

## 4) Functional Requirements:-

### 4.1 Authorization:

- Ability to verify & validate of credit card info including card number, expiry date, & cvv.
- Real-time authorization of transactions based on available credit and fraud detection mechanisms.

### 4.2 Settlement:-

- Capture funds from authorized transactions & initiate the settlement process.

### 4.3 Customer Management:

- Registration of new customers with payment information and preferences.

### 4.4 Integration:

- Integration with payment gateway & merchant service providers for processing.

## 5) Interface Requirements:

### 5.1 User Interface:

- Intuitive & user-friendly interface for merchants to initiate & manage transactions.
- Secure login & authentication.



## 5.2 System Interfaces

- Integration with external payment gateways & merchant service providers via APIs.
- Secure comm. protocols for transmitting sensitive payment data.

## 6] Performance Requirements

### 6.1 Response Time

- Quick response time for authorizing transactions & processing payments.
- Scalable architecture to handle peak transactions loads without degradation in performance.

### 6.2 Reliability

- Reliable transaction processing with minimal downtime or system failures.
- Fault tolerance to ensure uninterrupted service availability.

## 7] Design Constraints

### 7.1 Security

- Compliance with industry standards such as PCI DSS for securing payment card data.
- Encryption of sensitive payment information during transmission & storage.

### 7.2 Compliance

- Adherence to regulatory requirements & standards governing credit card processing, including GDPR & CCPA.



## 8) Non-Functional Attributes

### 8.1 Scalability:-

- Ability to scale the CCPS to accommodate growth in transaction volume & user base.
- Elasticity to adapt to changing business needs & market demands

### 8.2 Portability:-

- Compatibility with different OS & hardware platforms.
- cloud deployment options for flexibility & scalability

## 9) Preliminary Schedule & Budget:-

The development of the CCPS is estimated to take approximately 7 months with a budget of ₹10,00,000. The schedule includes phases for requirements gathering, design, implementation, testing & deployment.

This SRS serves as a foundation for the development process, ensuring that CCPS meets the specified requirements & delivers secure & efficient credit card transaction processing for merchants & customers.