

## Q generate the SRS document for credit card processing system

### 1. Introduction

#### 1.1 Purpose of this document

→ This document defines all the requirements for a credit card processing requirement system. It outlines the behaviour of the system along with its tasks and capabilities.

#### 1.2 Scope of this document

→ Authorization feature, capturing, refund and charge back features are some of the features highlighted in the document.

#### 1.3 Overview

→ The credit card processing system will be integrated with a payment gateway to facilitate efficient transactions to keep it secure.

→ It provides a user friendly interface for merchants to manage their transactions and generate reports.

### 2. General Description

#### 2.1 User Characteristics

→ Merchants who will use the system (Banks and non banking websites)

→ Customer who use the card for transactions and getting money from ATM machines.



## 2.2 User Interface

- Easy to use and intuitive
- secure and encrypted data transaction
- support various card types

## 2.3 Features

- verify validity of credit card and availability of funds
- customer's authorization is must for transaction
- process a refund for previous transaction
- cancel a transaction before it is captured
- Handle chargeback issued by banks
- process charges for subscription
- generate a report.

## 2.4 Benefits

- Easy payment process
- Reduced fraud risk
- Improved customer satisfaction
- Enhanced business efficiency
- saves time

## 3. Functional Requirements

### • Authorization

- verify credit card number, CVV and expiration date
- check for sufficient balance
- Response Message



### • Capture

- complete a transaction based on authorization
- update transaction status and generate receipt

### • Refund

- process a refund for a captured transaction

### • void

- cancel a transaction before it is captured
- update transaction status

### • Charge back

- Handles chargebacks initiated by banks or customers

### • Recurring Billing

- store customer billing information
- process charges on a scheduled basis

### • Reporting

- generate report on transaction volume, revenue, refunds and chargebacks
- provide data visualisation tools

### 4. Interface Requirements

- Integrate with secure and reliable payment gateways



- Adhere to gateway's API standard
- user friendly interface
- secure data transmission

#### 5. Performance Requirements

- Response time should be reduced for better experiences
- It should be scalable
- It should be secure.
- It should be reliable and have least downtime

#### 6. Design Constraints

- security must be implemented for sensitive data
- Industry standard must be followed
- The preferred programming language, frameworks and database must be specified

#### 7. Non Functional Requirements

- Easy to use for merchants
- Maintainability
- Portability and security

#### 8. Preliminary Schedule and Budget

- Estimated schedule for the project is
  - Requirement gathering and analysis (4-5 weeks)
  - System Design (2-3 weeks)
  - Development (8-10 weeks)
  - Testing and validation (4-6 weeks)
  - Deployment and Training (2-3 weeks)



Total estimated time = (19-23) weeks

- Estimated budget for project is
- Requirement documentation - ₹ 100000
  - Design and Tools - ₹ 200000
  - Development - ₹ 400000
  - Testing - ₹ 200000

Total estimated budget - ₹ 900000

gk  
gk