

## 8. Preliminary Schedule & Budget.

- Development timeline: 6 months
- Estimated budget: ₹ 1,00,000.

## II. Credit card <sup>Processing</sup> ~~management~~ system.

**Problem statement:** The credit card processing system seeks to provide a secure, efficient and reliable platform for merchants to accept electronic payments from customers. It addresses the challenge of facilitating seamless transactions while adhering to stringent security standards, minimizing fraud risks, and ensuring timely processing of payments across various channels.

### 1. Introduction

- 1.1 Purpose: Outline the specs & reqs of development of credit card processing system.
- 1.2 Scope of the Document: Overall working & objectives of CCPS
- 1.3 Overview:

The CCPS is designed to facilitate the processing of transactions securely & efficiently through centralized platforms for merchants to accept payment through cards.

### 2. General description:

- Authorizations of credit card transactions in real time
- Settlement of transactions, funds & receipts
- Management of accounts, payment methods
- Payment gateways, merchant service provider

### 3. Functional Requirements

Authorization: validate info, card no, date, cv, transactions

Settlements: capture funds from authorized transactions

Customer management: registration of new customers, updation.

Integration: Payment gateways, compatibility with credit cards, debit cards, UPI.

### 4. Interface requirements

- user interface: initiate & manage transactions, secure login & authentication.
- System interfaces: external payment gateway, secure communication protocols.

### 5. Performance requirements:

- Response time: Quick, minimal downtime, Scalable architecture.
- Reliability: Reliable transactions, fault tolerance.

### 6. Design Constraints:

- Security: Encryption compliance with PCI DSS.
- Compliance: Regulatory requirements, regular audits.

### 7. Non-functional attributes:

- Scalability: Scale OPS for growth in transactions, adapt to changing business model.
- Portability: Compatibility with different OS, cloud deployment options for flexibility.



8. Preliminary schedule and budget:
- Estimated timeline: 9 months
  - Budget: ₹ 5,00,000.

### Library Management System

Problem statement: A library management system should automate circulation, patron management, and resource tracking enhancing operation efficiency user experience.

#### 1. Introduction:

1.1 Purpose: The document outlines the requirements and specifications of a library management system. It ~~is~~ acts as a guide to developers and outlines functionalities, objectives and constraints.

1.2 Scope of the document: The document of a comprehensive library management system including catalog, circulation, patron management and reporting functionalities.

1.3 Overview: The system is designed to streamline operations such as book acquisition, cataloging, circulation, etc.

#### 2. General description:

- With cater to needs of librarians and patrons.
- Some features are:

- \* Cataloging: Allows librarians to catalog books and media including metadata.

- \* Circulation: facilitates borrowing and returning of library materials.