

II Credit Card Processing System

Problem Statement

The system is responsible for managing credit card payment processing. It must verify user credentials and credit card info. It must also prevent other applications from accessing data entered in the interface.

1. Introduction

1.1 Purpose of the document:

The document highlights the functionalities of credit card processing system.

1.2 Scope of the document: It provides an overview of the specification and objectives.

1.3 Overview:

The application is designed to facilitate the process of transactions, securely & effectively.

2. General description

- Authorization of credit card transactions (CC) in real time.
- Settlement of transactions, funds and receipts.
- Management of accounts, payment methods, payment gateways.

3. Functional Requirements

- Authorization: Authenticate user credentials, monitor expenses.
- Customer management: Registration of new customers.
- Integration: Payment gateways & APIs.
- Settlement: authorized transactions.

4. Interface Requirements

- User profile
- Card information fields - encrypted
- Transaction history
- Verification from bank.

5. Performance Requirements

- low payment failure rate
- secure information transaction
- convenient & swift card blocking mechanisms.

6. Design constraints

- Simple UI
- Access control of information
- Availability 24x7.

7. Non-functional Requirements

- Highly secure & reliable
- Expenditure tracking
- fast response.

8. Preliminary Schedule & Budget

This would include the different stages of development & deployment.

Requirement gathering: 2 weeks

Design and architecture: 2 weeks

Development: 3 weeks

Deployment & testing: 2 weeks

