

Problem statement: The need for a Credit management system arises from the complexity and volume of credit card operations in modern financial environments. Such a system streamlines application processes, ensure secure card activation and transactions, detects and prevents fraud.

1. Introduction:

1.1 **Purpose:** Outline the scope and requirements of development of credit card processing system.

1.2 **Scope of the document:** Overall working and objectives of credit card management system.

1.3 **Overview:** The CCPS is designed to facilitate the processing of transactions securely and efficiently. Centralized platform for merchants to accept payment through cards.

2. General Description:

→ Authorization of credit card transactions in real time.

→ Settlement of transactions, funds and receipts.

→ Management of currencies, payment methods.

3. Functional requirements:

→ **Authorization:** validate info, card no, date, CV, transaction.

→ **Settlement:** capture funds from authorized transactions.

→ **Customer Management:** Registration of new customers, updation.

4. Interface requirements:

- * User interface: initiate and manage transactions, secure login and authentication
- System interfaces: external payment gateway, secure communication protocols.

5. Performance Requirements:

- * Response time: Quick, minimal downtime, scalable architecture.
- System interfaces: external payment gateway.
- Secure communication protocol.
- * Reliability: Reliable transactions, fault tolerance.

6. Design constraints.

- * Security: Encryption compliance w/ PCI DSS.
- * Compliance: Regulatory requirements, regular audits.

7. Non-Function attributes:

- Scalability: Scale CRES for growth in transaction adapt to changing business needs.
- Portability: compatibility with different OS, cloud deployment option for flexibility.

8. Preliminary Schedule and budget.

- * Estimated timeline: 9 months.
- * Budget: ₹ 5,00,000.