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Credit Card processing 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 & objective of credit card processing system

1.3. Overview

The credit card processing system is designed to facilitate the processing of transactions securely & efficiently.

Centralized platform for merchants to accept payment through cards

2. General Description:

- authorization of credit card transaction in real time
- Settlement of transaction, funds & receipts
- Management of accounts, payment methods
- Payment gateways, merchant service providers

3. Functional Requirements:

Authorization: Validate info, card no, date, CV, transactions

Customer Management: Registration of new customers
update.

Integration: Payment gateways
compatibility with credit cards,
debit cards, UPS

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 transaction, fault
tolerance

6. Design Constraints:

Security: Encryption, compliance with PCI DSS

compliance: Regulatory requirements, regular
audits.

7. Non functional attributes:

Scalability: Scale credit card processing
system for growth in transaction
adapt to changing business needs.

Portability: Compatibility with different OS
cloud deployment options for flexibility

8.

Preliminary Schedules & Budget

- Estimated timeline: 9 months
- Budget : ₹ 500,000