

ii) SRS document for a credit card processing system.

1. Introduction +

1.1 Purpose → This document gives the requirements for a credit card system giving its features & benefits to stakeholders.

1.2 Scope → It covers the system objectives, development costs, timelines, ensuring clarity.

1.3 Overview It facilitates secure, efficient credit card transactions, enhancing user experience and operational efficiency.

2. General Description +

* User Objectives → Streamlined payment processing, User-friendly interface.

* User Characteristics → Customers, merchants requiring reliable payment solutions.

* Features & Benefits Real-time transactions, Fraud-detection mechanisms, Reporting tools

* Importance + Essential for businesses to accept payments & manage transactions securely.

3. Functional Requirements +

* Transaction Processing

* User Authentication

* Fraud Detection

* Reporting

4. Interface Requirements +

* User Interfaces

* API integration

* Data Communication

5. Performance Requirements +

* Transaction processing should not take more than 2 seconds.

* It should be able to handle high transactions per minute.

* Be time critical & have less error rate.

6. Design Constraints +

* Use specific languages for development

* Adhere to PCI DSS standards for payment processing.

* Compatible with existing servers.

7. Non-Functional Attributes

- * Robust encryption for data protection (Security)
- * Support for increased transaction volumes as business grows (Scalability)
- * Ability to deploy on multiple platforms (Portability)

8. Preliminary Schedule & Budget

- * Approximate development time: 6 months

- * Budget: \$150,000

- * Phases:

→ Requirements Gathering: 4 weeks

→ Design: 6 weeks

→ Development: 8 weeks

→ Testing: 4 weeks

→ Deployment: 2 weeks

Signature