

SRS document for credit card processing system.

1. Introduction.

1.1. Purpose of the ~~requirements~~ documents to specify the software.

↳ A credit card processing system facilitates electronic transactions between the cardholder, merchant, issuing bank and acquiring bank. It captures and transmits payment details. System also handles fraud detection.

scope of document

↳ It defines overall working and objectives of the credit card processing system, highlighting its value to customers, including ease of use and security. Also provides an estimate of development cost and time requirement for completion.

1.1.3 Overview

The system allows secure electronic transactions between cardholders, merchants and financial institutions. It ensures efficient payment handling, fraud detection.

2. General description

System enables cardholders to make electronic payments while providing merchants with a secure means of accepting these payments.

key features: friendliness, fast processing and secure data transmission.

3. Functional Requirements.

System performs tasks such as validating card details, authorizing transactions, and processing payments. It includes data encryption, fraud detection and bank communication.

→ Role functions based on priority for smooth operation.

- 4. Interface requirements
 - Details interactions b/w payment systems, merchant and banks.
 - Describes the use of APIs, data streams and encrypted communications.

Performance requirements:

- Specifies fast processing times and low error rates.

- Ensures performance under peak load conditions.

Design constraints:

- Adheres to regulatory and security standards.
- Ensures compatibility with various hardware and software platforms.

Non-functional attributes.

- Focuses on security, scalability, reliability and portability.

- Ensures data integrity and reusability of components.

- Implements features like multi-factor authentication.

- Usability

Preliminary schedule and Budget

→ outlines key milestones like development, testing and deployment.

→ Provides a preliminary budget estimate for development and maintenance.

→ Development time: 8 months.

→ Budget: \$ 25,000

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