2. Credit Card Processing

Problem Statement

Ensure secure handling of credit card information, prevent fraud, ensure reliable operation, provide user friendly interface that is easy to understand. should also be compatible with different devices.

SRS

1. Introduction

   1.1. Purpose of this document : Outline the necessary requirements and specifications of developing a credit card processing system.

   1.2. Scope : Overall working, and the main objectives/tasks of development cost, and time, ensure system is secure, reliable, and user friendly.

   1.3. ⊕ Overview : Describes main features, requirements, features and serves as a reference for all teams. ensure that all deadlines and objectives are met.

2. General description

   User community for the system is the businesses, customers, merchants who use their credit card to make purchases. Benefits are that there is more security and efficiency in handling credit cards. Key features include encryption, user friendly interfaces, storing and retrieving transactions. Users are anyone that ⊕ accepts credit cards.

3. Functional requirements

* provide customer support for any problems.
* verify the cards information
* accept and process credit card information.
* report on the history and trends.

4. Interface requirements

* integrate with already existing software that the credit card company is using.
* Provide user friendly interface for customers and merchants.
* Interface various payment gateways and credit card networks.

5. Performance requirements.

* response time should be less of system.
* must process very quickly within 2-5 seconds
* handle many transactions.

6. Design Constraints.

* designed with scalability in mind, so that upwards reach can be possible.
* increase transactions.
* encryption methods to ensure that data is secure
* data security.
* types of payment methods accepted.

7. Non functional Attributes.

* Security - System has to ensure that all the credit card information is stored and transmitted to prevent unauthorized access.

* Portability: has to be designed to run on multiple platforms and devices to make sure its accessible to everyone.

* Scalability, Capacity: handle increased transaction vol during peak times without any degradation in performance.

* Reusability: Should be oriented in a way such that reusing is possible.

8. Preliminary Schedule and budget.

* Planning : 1 month

* Development phase : 4 months.

* Testing : 4 months.

* Deployment : 1 month

* Hardware : $300,000

* Training : $150,000.