

### 3) Credit Card Processing System

#### Introduction:

The purpose of this document is to provide a detailed description of requirements for credit card processing system.

Purpose: The credit card processing system will provide a platform for merchants to process credit card transactions. Real time auth and settlement for transaction can be done.

Scope: Credit card processing system will be provide a platform for merchants to process a web-based application accessible via a web browser.

The system will allow merchants to process credit card transactions for ~~both~~ online and ~~both~~ offline transactions.

#### General description:

The credit card processing system fulfills the objective of processing credit card transaction while complying to the important characteristics of transactions of ACED.

## Functional Requirements:

- 1) User Registration: The system shall allow merchants to register for an account and create a profile.
- 2) User Authentication: The system shall require ~~mer~~ merchants to authenticate themselves.
- 3) Bto B Transaction Processing: The system shall allow merchants to initiate transactions.
- 4) Security: The system shall implement appropriate security measures to protect against unauthorized access and data breaches.

## Non Functional Requirements:

- 1) Usability: The system should be easy to use and navigate, with clear and concise instructions.
- 2) Reliability: The system shall be highly reliable with minimal data loss.
- 3) Scalability: The system shall be able to scale to accommodate an increasing number of users and transactions.
- 4) Availability: System shall be available 24/7.

## Performance Requirements:

- 1) Response Time: The system shall have a decent response time.
- 2) Tech Optimization: The system shall be optimized for high performance by using efficient algorithms.



## Interface Requirements

- 1) User Interface: The system shall provide an intuitive and usefriendly interface for merchants to perform credit card functions.
- 2) The interface should be consistent and comply with accessibility guidelines and support internationalization
- 3) The system should integrate with third party payment gateway and financial services.

## Design Constraints:

~~Security~~:

Hardware and Software: The system must be designed to run on standard hardware and software platforms ~~and any 3rd party soft~~

Reliability: The system must be designed to ensure high availability and reliability.

Interoperability: The system must be designed to integrate with various gateways and financial services.

## Preliminary Schedule and Budget

- 1) Planning Phase: 4 weeks; \$50,000
  - 2) Development Phase: 12 weeks: \$200,000
  - 3) Deployment phase: 2 weeks \$25,000
  - 4) Maintenance Phase: \$50,000/Per year
- Total: \$325,000