

1) Credit Card processing System

Problem Statement : The aim is to design & implement a robust credit card processing system that facilitate secure & efficient transaction between merchants & customers

Purpose of this document : It is to outline the specification & requirements for the development of a credit card processing system.

Scope of this Document : This document defines the overall working & object of the Credit Card processing system. It describes the value it will provide to customers & stakeholders

Overview : It is designed to facilitate the processing of credit card transaction securely & efficiently. It provides a centralised for merchants to accept payments from customers using credit card

Function Requirements

- **Authorisation :** Ability to verify the validity of credit card information including card no, expiry date & cvv
- **Settlement :** Capture fund from authorised transaction and initiate the settlement process.

Interface requirement :

- User Interface : User friendly interface for merchants.
- System Interface : Integration with external payment gateways.

Performance Requirement

- Response Time : Quick response time for transaction.
- Reliability : Reliable transaction processing.

Design Constraints :

- Security
- Compliance

Non-functional attributes.

- Scalability : Elasticity to adapt to changing business.
- Portability : Compatibility with user operation system.