

## 2) Credit Card Processing System :-

### a) Problem Statement :

The aim is to design & implement a robust Credit Card Processing System that facilitates secure & efficient transaction between merchants & customers.

### b) Purpose of this document :

The purpose of this document is to outline the specification & requirements for the development of a Credit Card Processing System. It serves as a comprehensive guide for the development team, stakeholders & overview of the system.

### c) Scope of this Document :

This document defines the overall working & objectives of the Credit Card Processing System. It describes the value it will provide to customers & stakeholders, including secure & efficient handling of credit card transactions.

### d) Overview :

It is designed to facilitate the processing of credit card transactions securely & efficiently. It provides a centralized platform for merchants to accept payments from customers using credit card.

### e) General Description :

- Authorization of credit card transaction in real time
- Settlement of transaction
- Management of customer accounts
- Integration with payment gateway & merchant.



#### f) Function Requirements:

##### - Authorization:

Ability to verify the validity of credit card information including card no, expiry date & CVV.

##### - Settlement:

Capture funds from authorized transactions and initiate the settlement process.

##### - Customer management:

Registration of new customers with payment information & preferences.

##### - Integration:

Compatibility with various payment methods, including credit card, debit card.

#### g) Interface Requirement:

##### - User Interface:

Intuitive & user friendly interface for merchants.

##### - System Interface:

Integration with external payment gateways.

#### h) Performance Requirement:

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

#### i) Design constraints:

- Security
- Compliance

#### j) Non functional attributes:

- Scalability: Elasticity to adapt to changing business needs.
- Portability & Compatibility with operation systems.

#### k) Preliminary Schedule & Budget:

For development of credit card system it is estimated to take approximately 9 months with \$10000 budget.