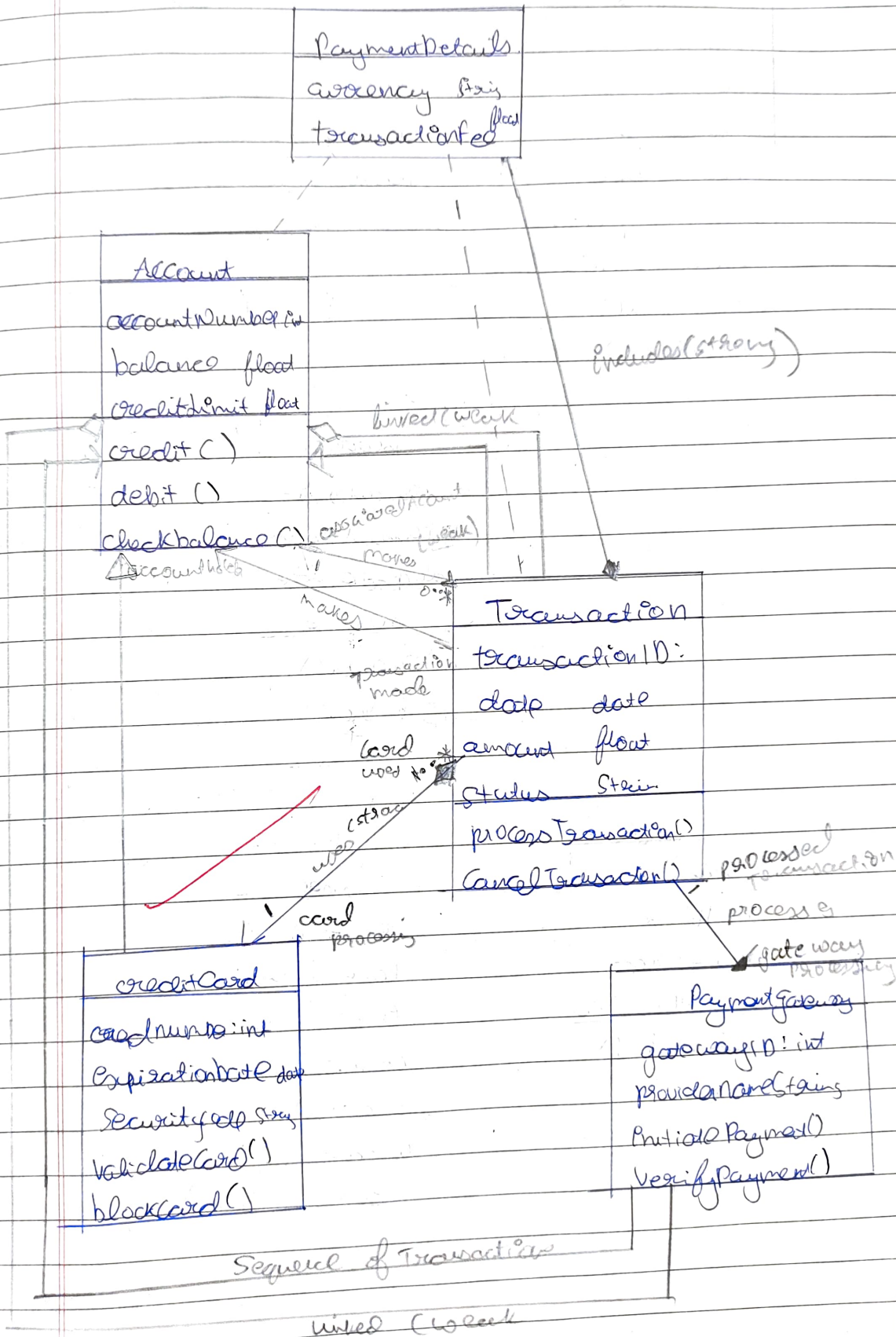


# credit card system.



Reliability : Ensure system availability with minimal downtime

Scalability : able to handle an increase in transaction volume.

Preliminary Schedule and Budget:

Initial Budget : ₹ 5,00,000

Project duration : 4 months

Requirement gathering : 1

Design : 1 month

Development : 1.5 months

Testing : 0.5 month

## 3. functional requirements

1. Transaction processing: process credit cards securely
2. User authentication: verify user identity before processing transaction
3. Transaction history: maintain user all records of usage
4. Request processing: Allow merchants to issue refunds
5. Dispute management: provide functionalities for managing payment disputes

## 4. Interface Requirements

The CCPS Interface is with user interface web and mobile for merchants and customers

payment gateway integrate various credit cards

Banking APIs for fund transfer and verification.

## 5. Performance & requirements

The system should:

process transaction within 2 seconds.

handle up to 500 simultaneous transaction

Ensure 99.99% ~~Success rate~~

## 6. Design constraints

- must comply with PCI DSS standards, Develop using .Net and SQL server. Must operate on cloud infrastructure.

## 7. Non functional requirements

Security end to end encryption & secure data storage

# Software Requirement Specification of Credit Card processing System

## 1.1 Purpose of this document

This document outlines requirements for the credit card processing system (CCPS). It serves as a framework for developers and stakeholders to ensure alignment on system functionalities and performance expectations.

## 1.2 Scope of this document

The CCPS will facilitate secure credit card transactions, providing functionalities for merchants and customers. Estimated development cost is £1950,000 with a time line of 4 months for project completion.

## 1.3 Overview

The credit card processing system is designed to process credit card transactions securely and efficiently, supporting various payment methods and ensuring compliance with industry standards.

## 2 General description

The CCPS allows ~~merchants~~ to accept & process payments, manage transactions & perform refunds. User characteristics include merchants, administrators and customers. Key features include: Secure payment processing, Transaction history tracking, Refund and dispute management. Enhancing transaction security and efficient payment experience to customers are few other significant goals.