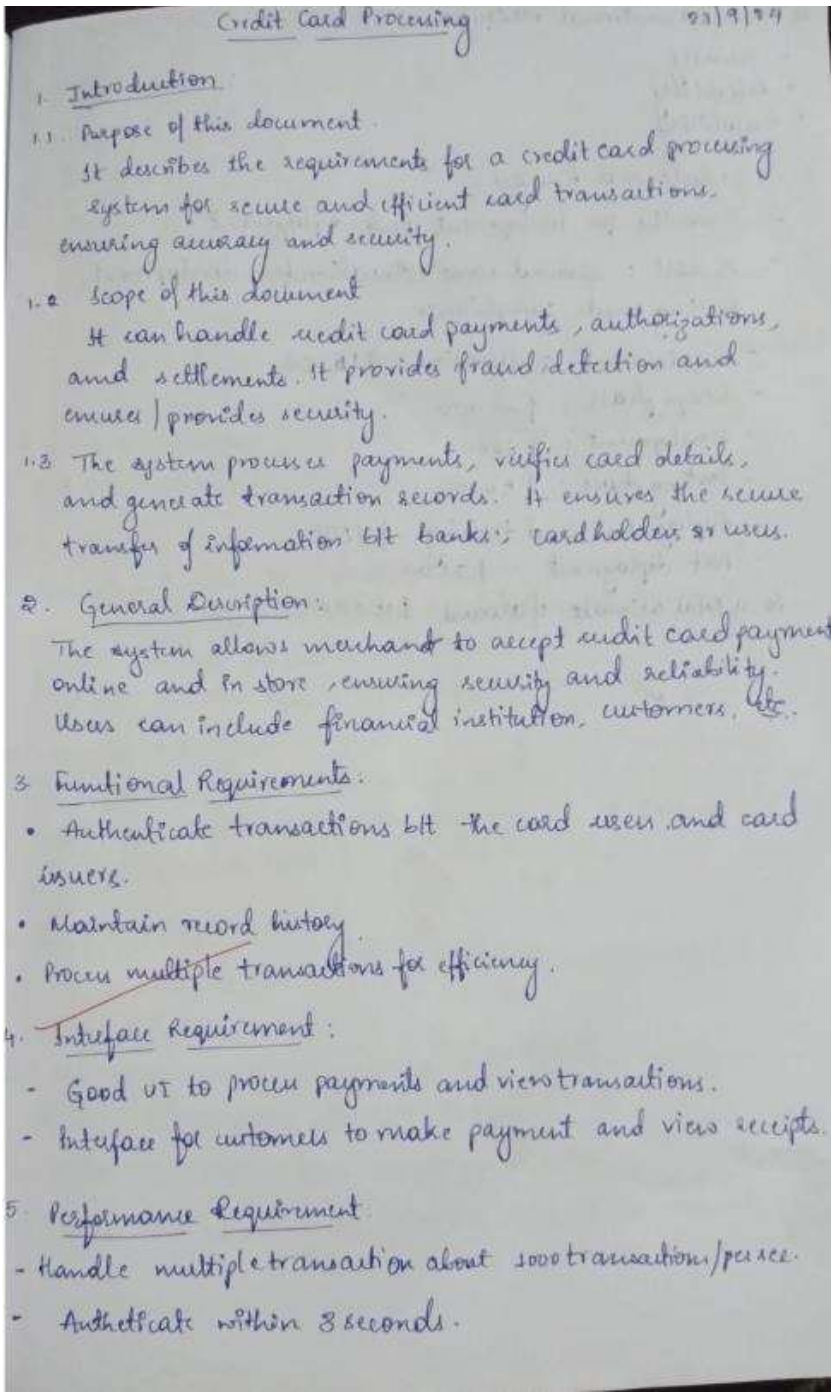
CREDIT CARD PROCESSING SYSTEM

SOFTWARE REQUIREMENTS SPECIFICATION



Credit Card Procesing 23/9/24

1. Introduction

1.1. Purpose of this document.
It describes the requirements for a credit card processing system for secure and efficient card transactions. ensuring accuracy and security.

1.2 Scope of this document
It can handle credit card payments, authorizations, and settlements. It provides fraud detection and ensures / provides security.

1.3 The system processes payments, vitifies card details, and generate transaction records. It ensures the secure tranfer of infomation bit banks, cardholder, sr users.

2. General Discription:
The system allows marchant to accept credit card payment online and in store, ensuring security and reliability. Users can include financial institution, customers, etc.

3. Funtional Requirements:
- Authenticate transactions bit the card users and card issuers.
- Maintain record history.
- Procss multiple transactions for efficiency.

4. Interface Requirement:
- Good UI to procss payments and view transactions.
- Interface for customers to make payment and view receipts.

5. Performance Requirment
- Handle multiple transaction about 1000 transactions/persec.
- Authetficate within 3 seconds.

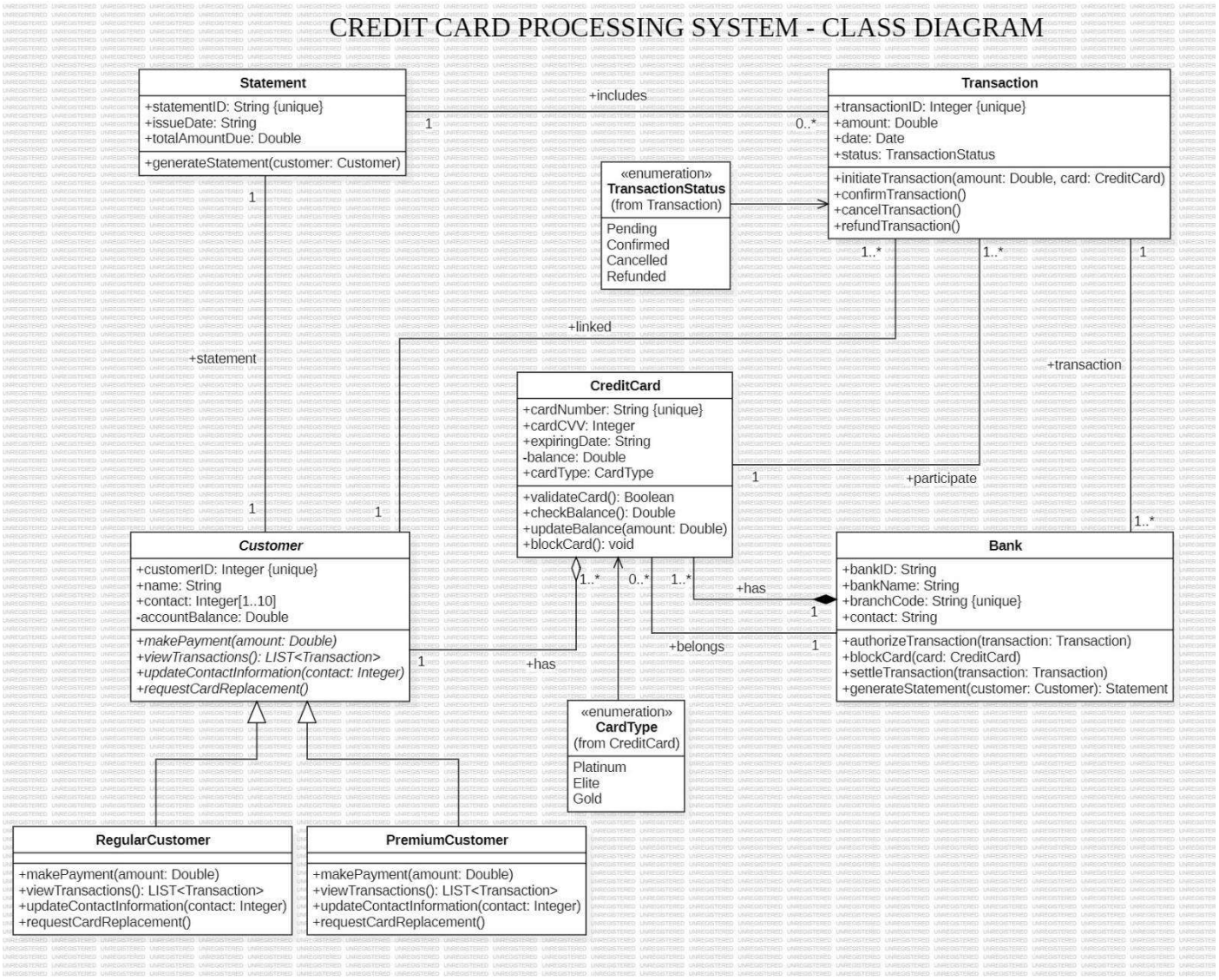
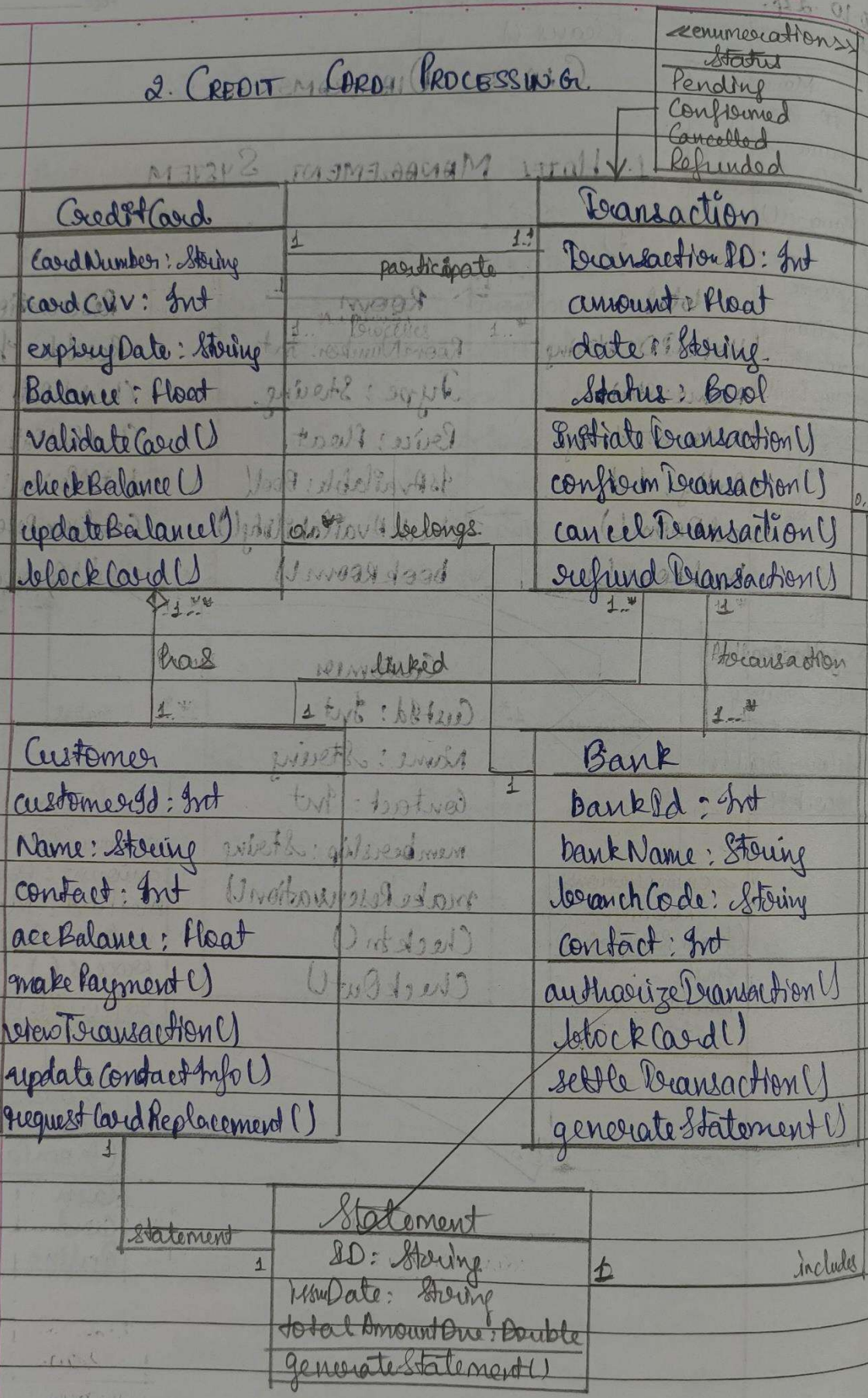
7. Non-Functional Attributes
   - Security
   - Reliability
   - Scalability

8. Schedule and Budget:
   - 6 months for development and deployment.
   - Budget: around some estimation for, development testing and compliance
     - Requirement specification: $15,000
     - Design phase: $25 000
     - Development: $80000
     - Testing phase: $20,000
     - Deployment and training: $7500
     - Post deployment: $2500

So a total estimate of around $150000.

UML DIAGRAMS

CLASS DIAGRAM



2. Credit Card Processing