

## SRS for Credit Card Processing System

### i) Introduction

#### Purpose:

This document outlines the software requirements for the Credit Card Processing System. The system will facilitate online and credit card processing.

#### Scope:

The CCPS will provide an interface for merchants to accept credit card payments, process transactions, and handle refunds.

#### Overview:

The CCPS will process credit card transactions, ensuring seamless integration with merchants' e-commerce systems and POS terminals.

### 2) General Description

- \* Secure transaction processing
- \* Fraud detection & prevention
- \* Integration with e-commerce platforms

### 3) Functional Requirements

- \* Transaction authorization and validation
- \* Payment gateway integration
- \* Real time transaction tracking

### 4) Interface Requirements

- \* Secure database for storing transaction data.

- \* API integration with e-commerce platforms
  - \* POS terminal support for in-store transactions

5) Performance Requirements:

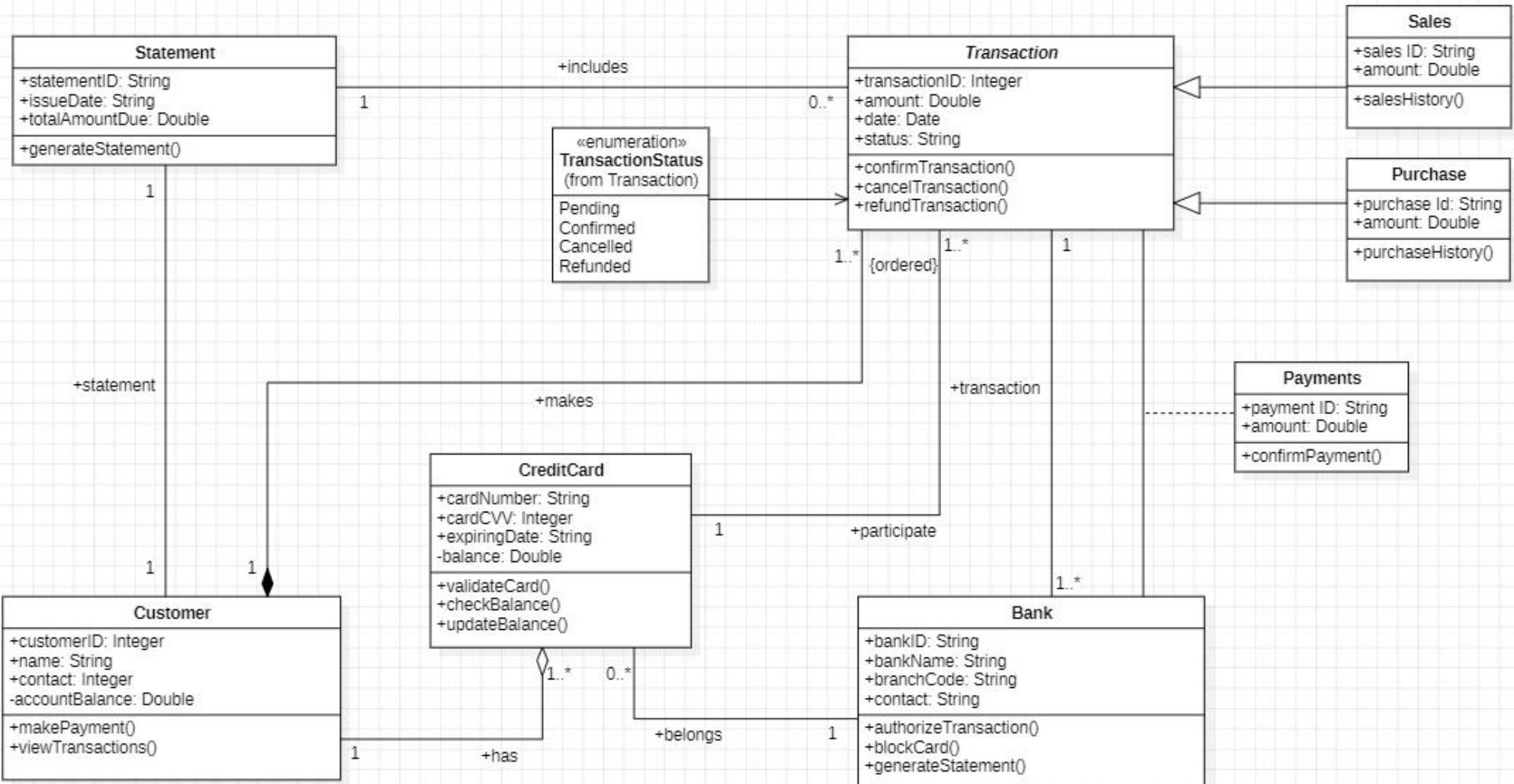
  - \* Must handle up to 10,000 concurrent transactions.
  - \* Less Response time
  - \* Error rate in transactions should be less.

- 6) Design Constraints:

  - \* Must comply with PCI DSS standards.
  - \* Support for multi-currency transactions.

- \* Non-functional attributes:
    - \* Must use encryption for all transactions and customer storage data.
    - \* Should work across different POS terminals and e-commerce platforms.

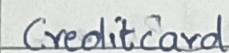
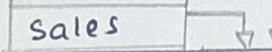
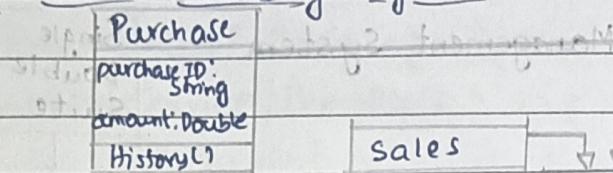
## CREDIT CARD PROCESSING SYSTEM



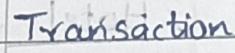
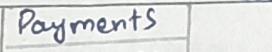
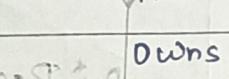
## Credit Card Processing System

### Enumeration

Pending  
Confirmed  
Cancelled  
Refunded



Card-no: String  
expiryDate: string  
CVV: int  
balance: float  
checkBalance()  
updateBalance()

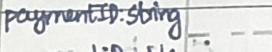
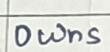


transactionID: string  
amount: float  
date: string  
status: string

confirmTransaction()  
cancelTransaction()

authorizeby

1..\* 1..\*



1..\* 1..\*

print: PrintStatement

print: PrintCustomer

print: PrintCustomerID

print: PrintName

print: PrintContact

print: PrintAccountBalance

makePayment()

viewTransactions

refund()

blockCard()

cancelCard()

generateStatement()

blockCard()

cancelCard()

generateStatement()

blockCard()

cancelCard()

generateStatement()

blockCard()

cancelCard()

generateStatement()

blockCard()

cancelCard()

generateStatement()