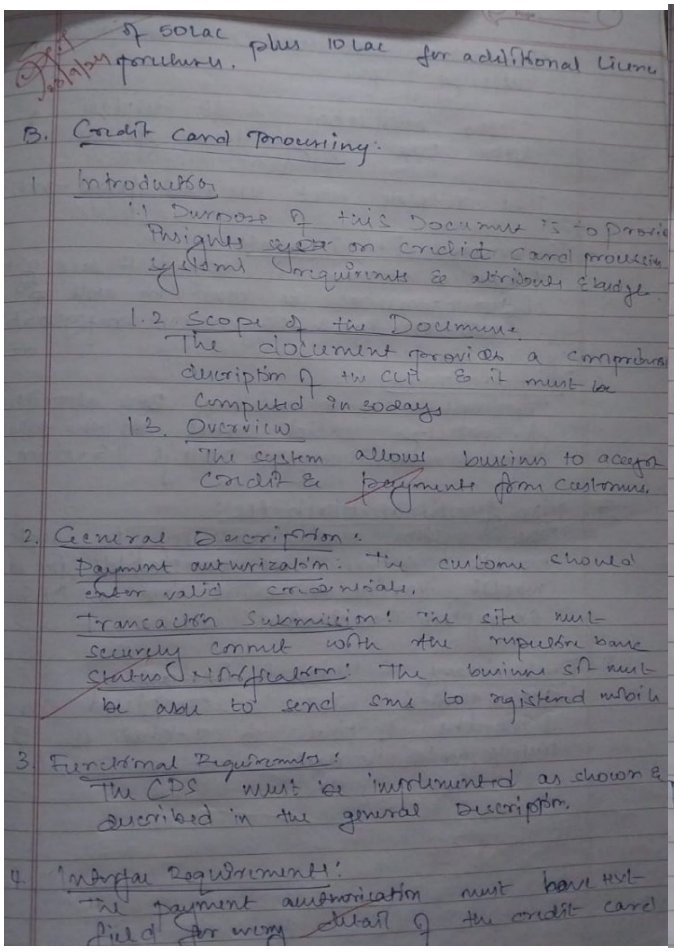
1. Credit Card Management System

a. SRS Document:



B. Credit Card Processing:

1. Introduction

1.1 Purpose of this Document is to provide Insights over on credit card processing system. Requirements & attributes & budget

1.2 Scope of the Document

The document provides a comprehensive discription of the CCP & it must be completed in 30 days

1.3. Overview

The system allows business to accept Credit & payments from customers.

2. General Description:

Payment authorization: the customer should enter valid credentials.

Transaction Submission: the site must securely commit with the respective bank.

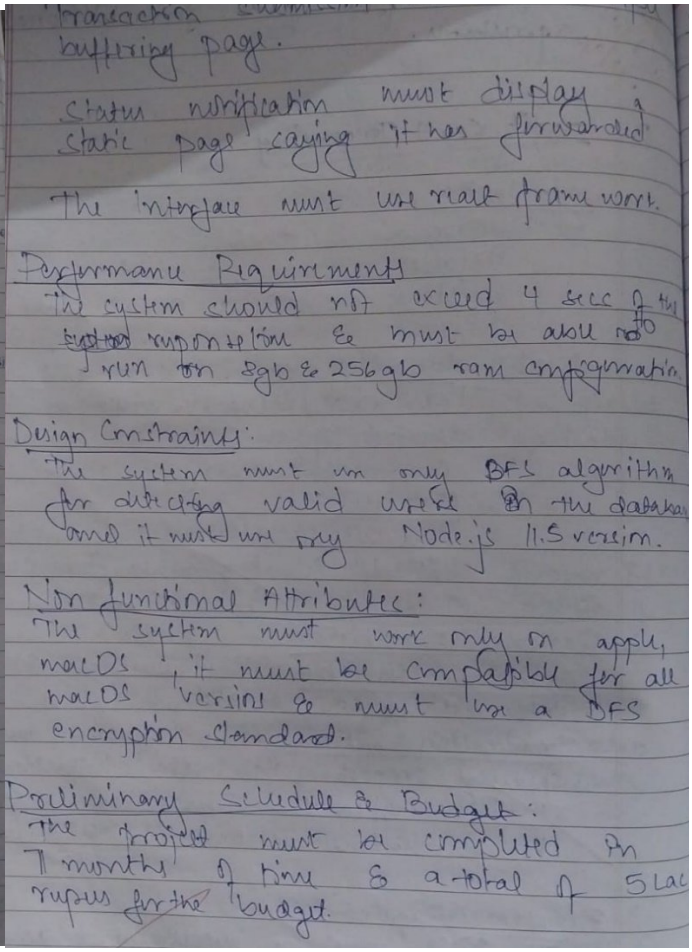
Status Notification: The business software must be able to send sms to registered mobile

3. Functional Requirements:

The CPS must be implemented as shown & described in the general Description.

4. Interface Requirement:

The payment authorization must have text field for every detail of the credit card



transaction

buffering page.

status verification must display a static page saying it has forwarded

The interface must use react framework.

Performance Requirement

The system should not exceed 4 secs of the system response time & must be able to run on 8gb & 256gb ram configuration

Design Constraints:

The system must use only BFS algorithm for directing valid users in the database and it must use my Node.js 11.5 version.

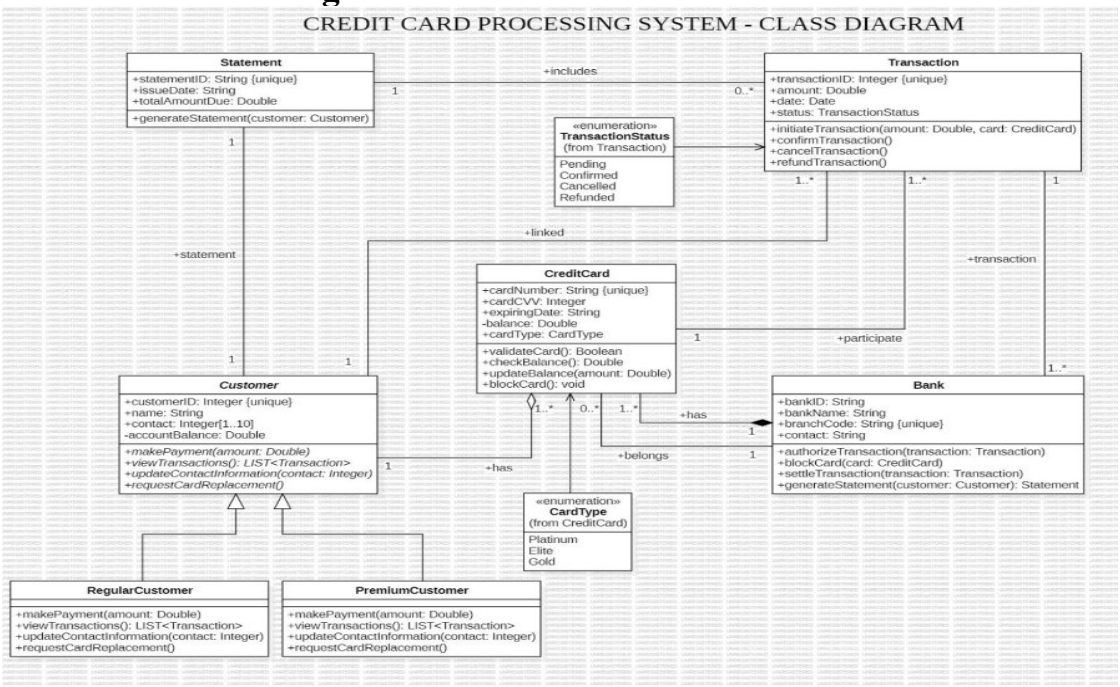
Non functional Attributes:

The system must work only on apple, macOS, it must be compatible for all macOS version & must use a BFS encryption standard.

Preliminary Schedule & Budget:

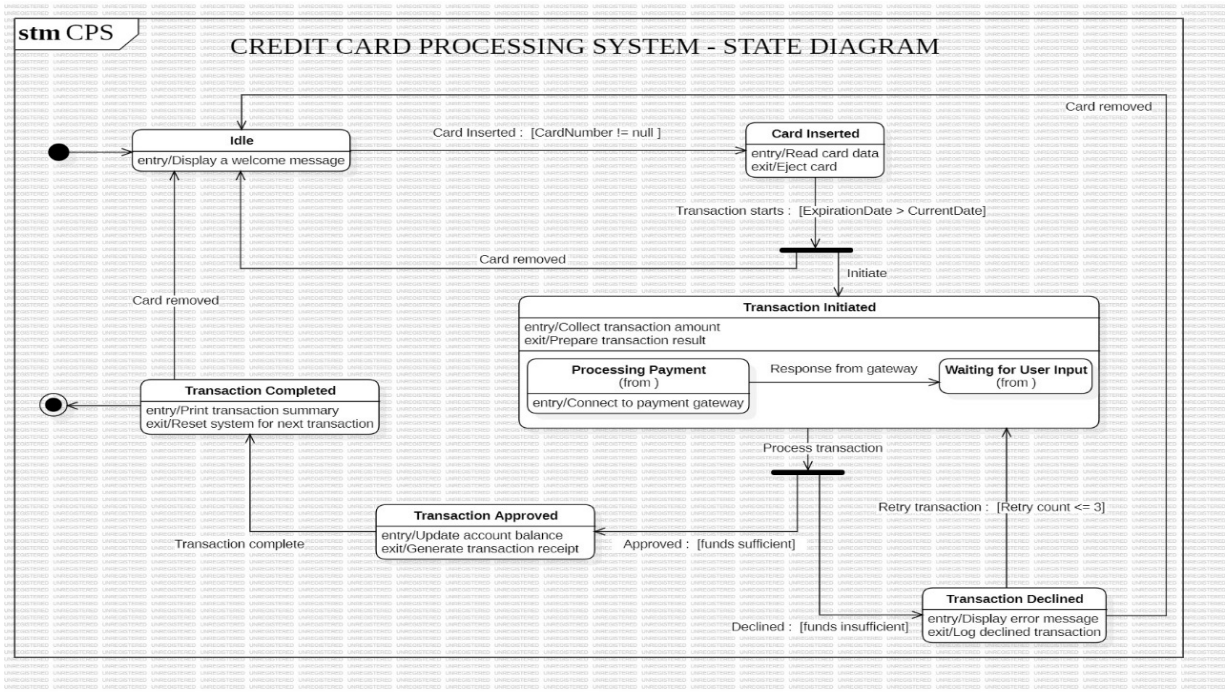
The project must be completed in 1 months of time & a total of 5 Lac rupees for the budget.

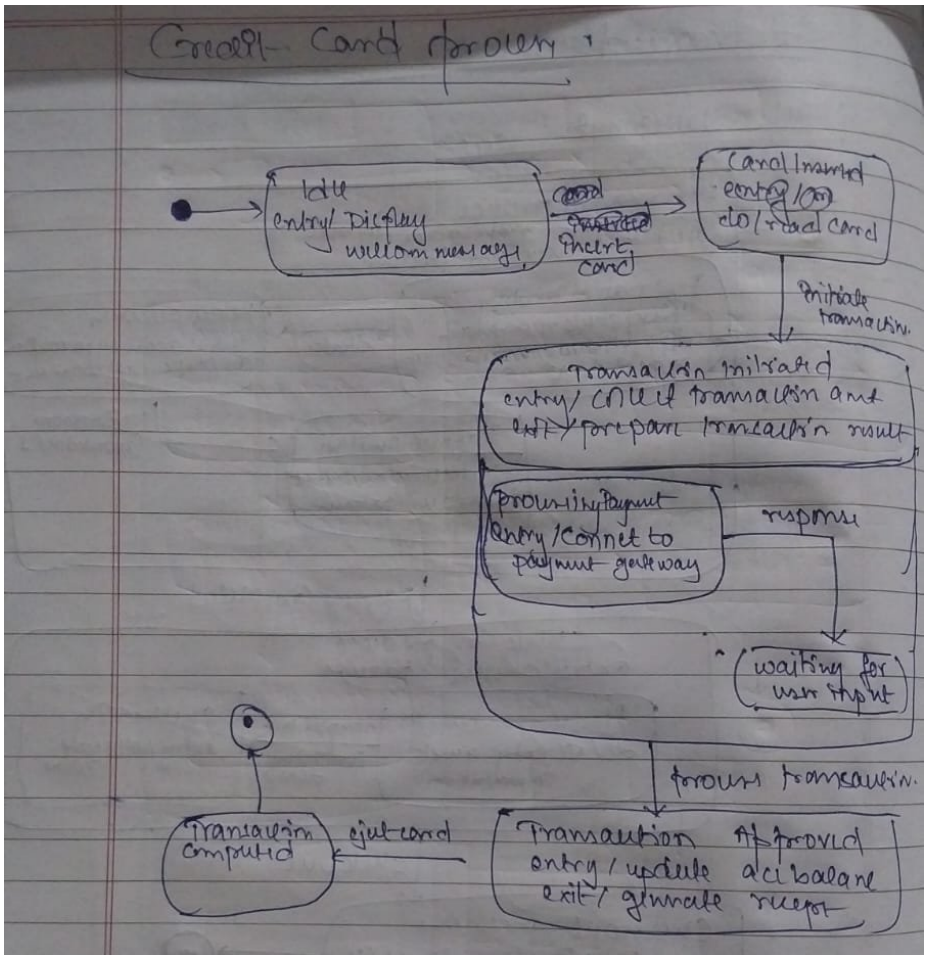
b. Advanced Class Diagram:



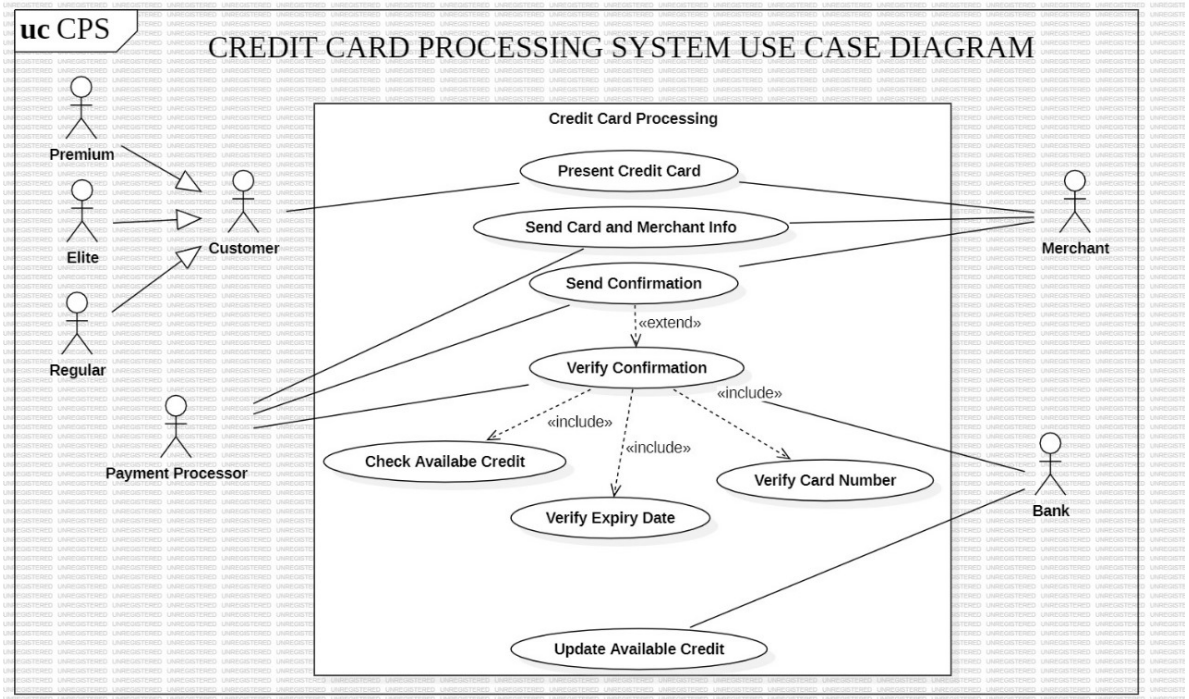
Credit Card processing System
CardHolder
CardholderID
name
address
phone
applyforcard()
updatedetails()
owns
Standard
Student
Business
CreditCard
CardNo
expirationdate
CVV
CreditLimit
makepayment()
checkBalance()
performs
generates
Transaction
transactionID
amount
date
Status
processTransaction()
getDetails()
belongsto
performedby
Merchant
merchantID
name
Category
registerMerchant()
processPayment()
fraud
Pass through
has
gives
belongs
Authorization
Autho.code
date
status
generation.code()
validate.autho.code()
PaymentGateway
gatewayID
Name
fee
autho.trans()
process refund()
Account Statement
StatementID
Period
Total amount
generate Statement()
viewStatement
<<enumeration>>
PaymentGateways
RazorPay
PhonePay
Amazon Pay
Account details
Timeperiod
thu 25/10/24

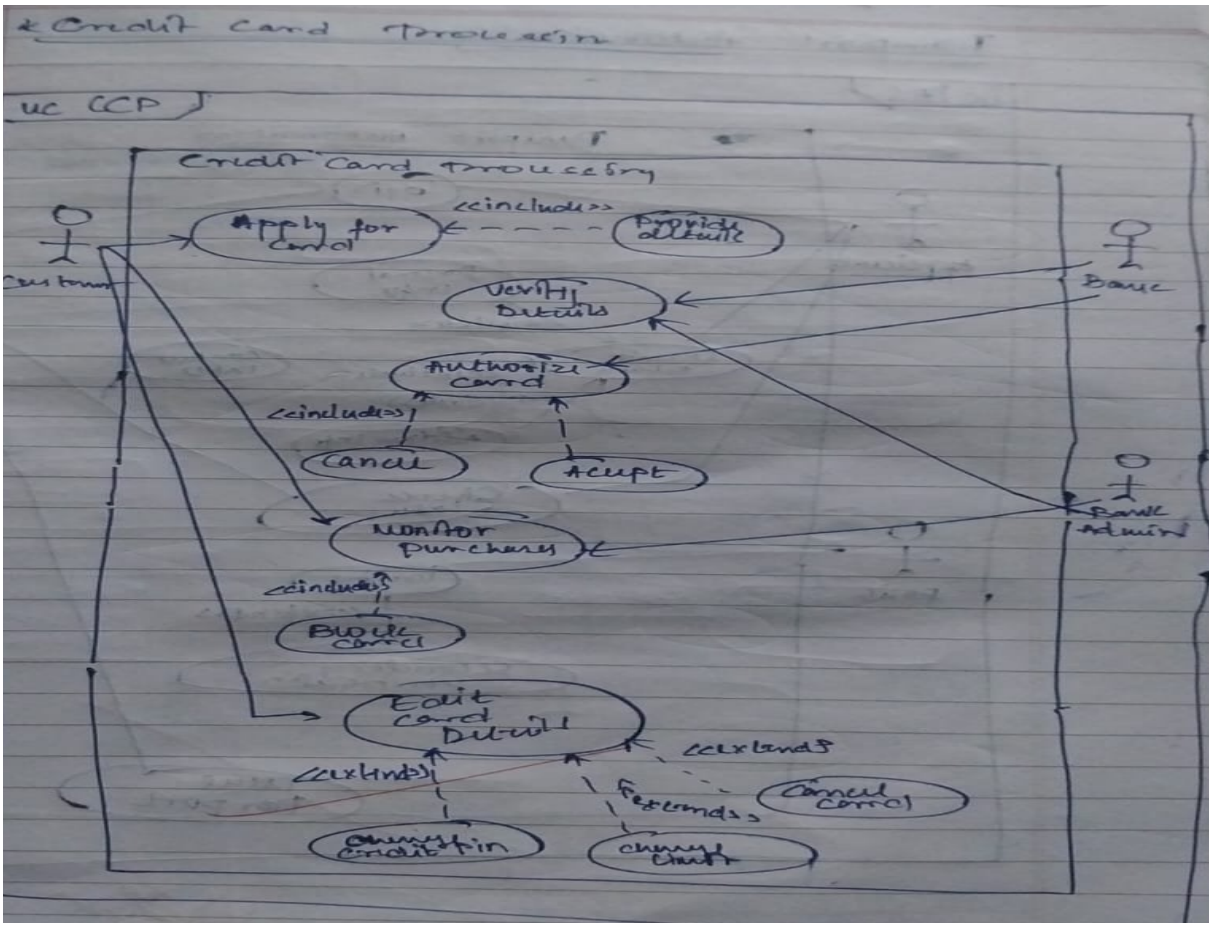
c. Advanced State Diagram:



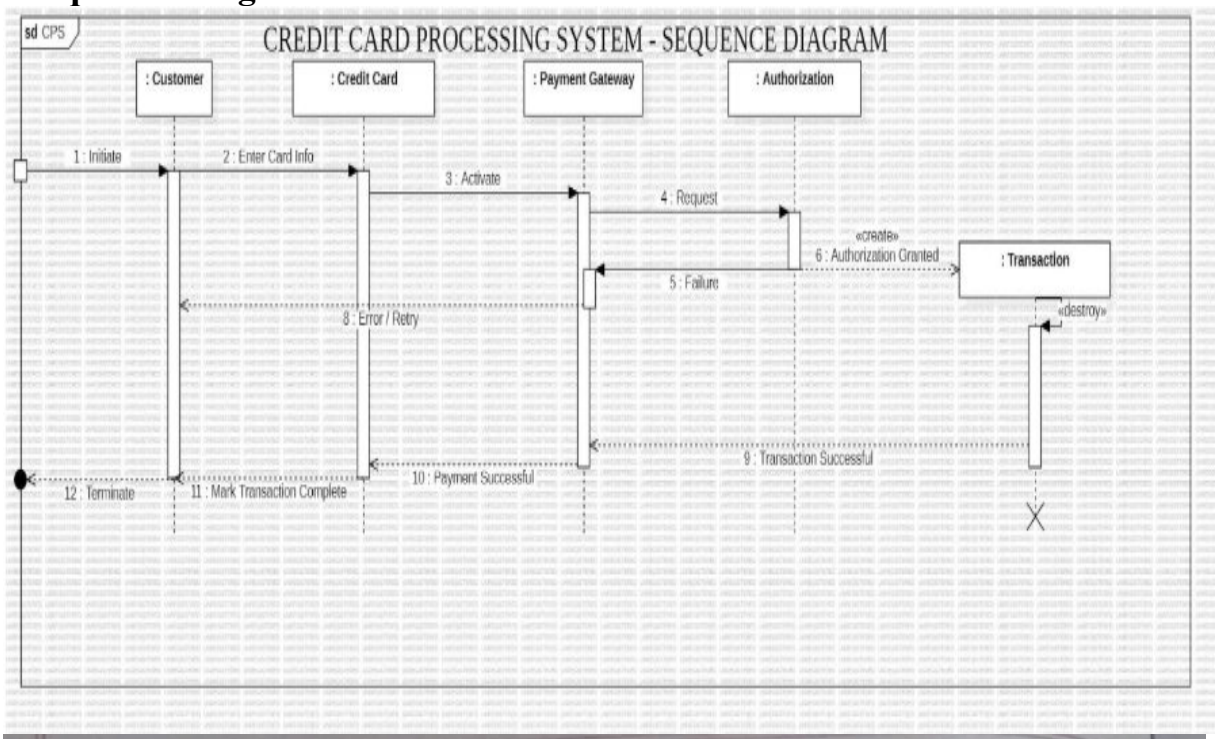


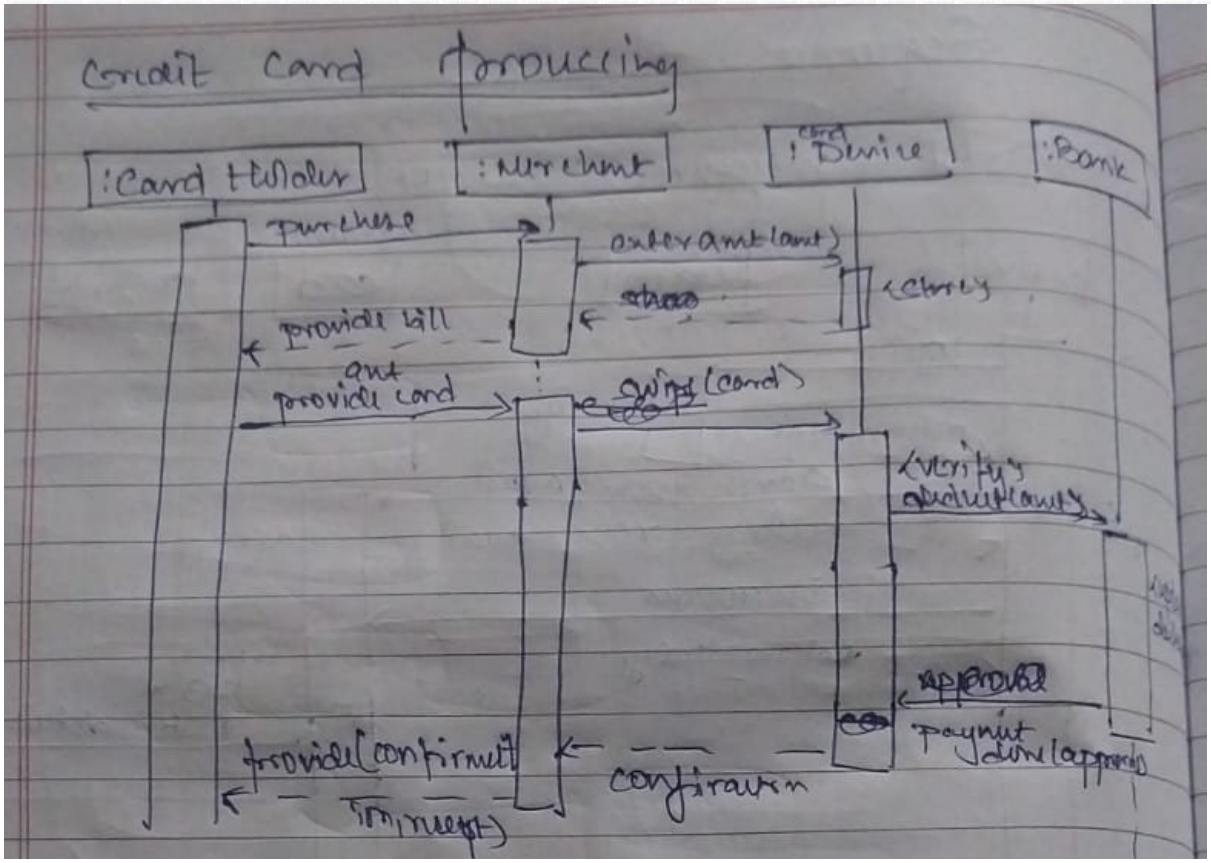
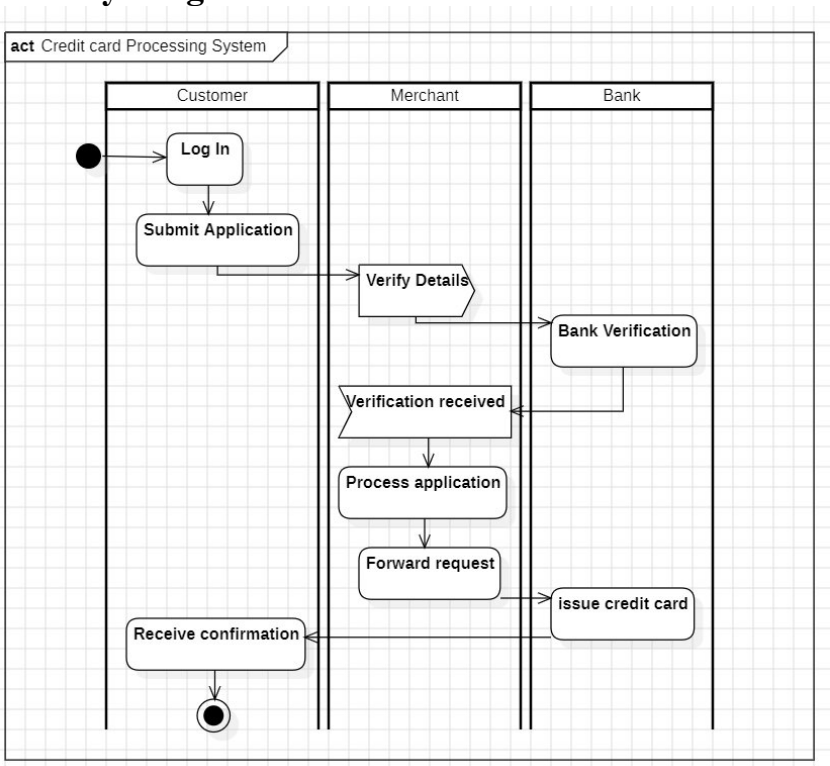
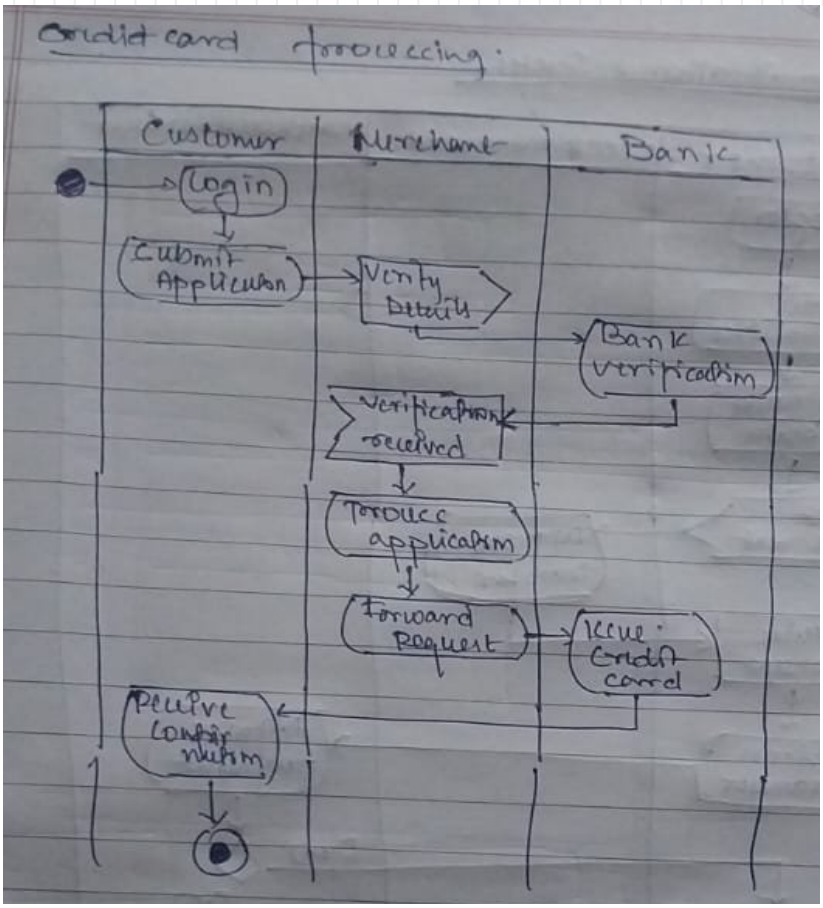
d. Use Case Diagram:





e. Sequence Diagram:





f. Activity Diagram: