UML EXERCISES

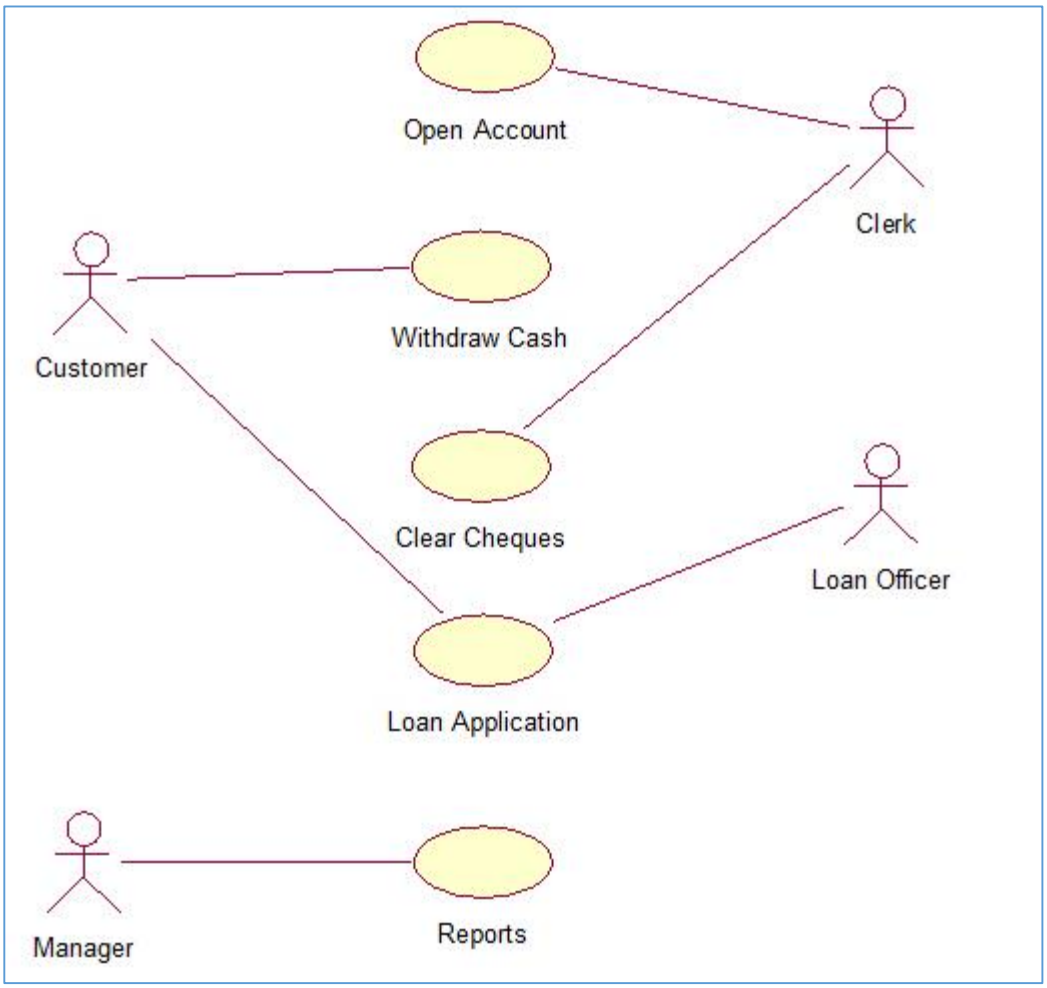
Give the description of some applications. The details is in the PDFs files that attached.

Requirements:

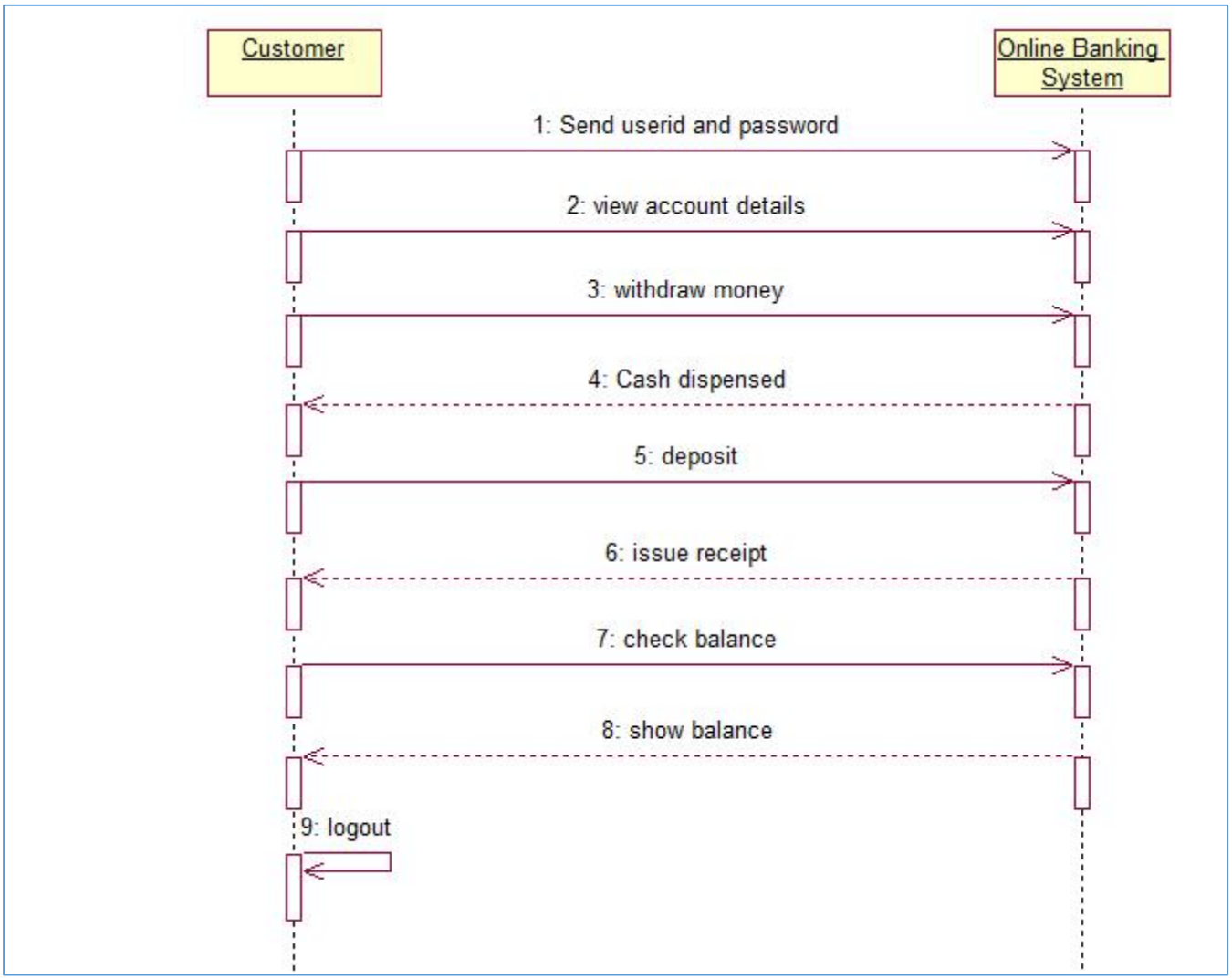
1. Read the system description.
2. Re-design them.

UML Diagrams for Online Banking System

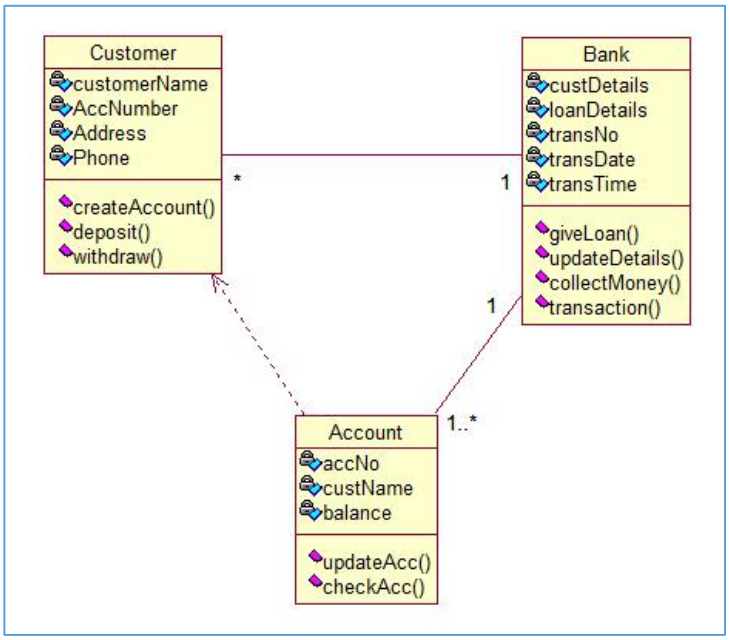
Use Case Diagram



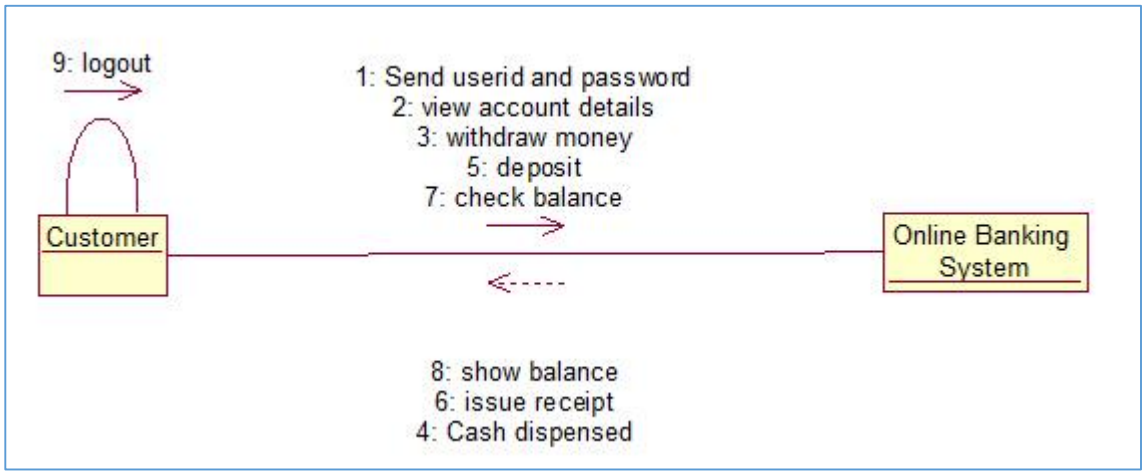
Sequence Diagram



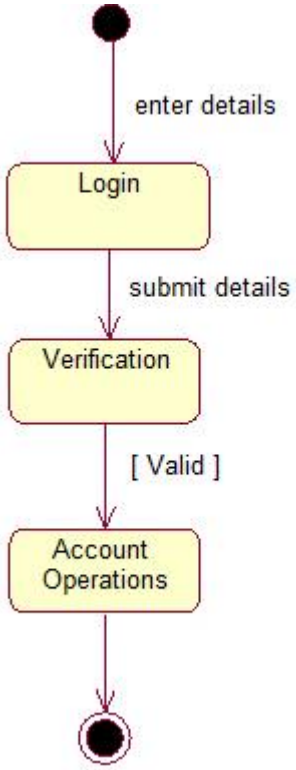
Class Diagram



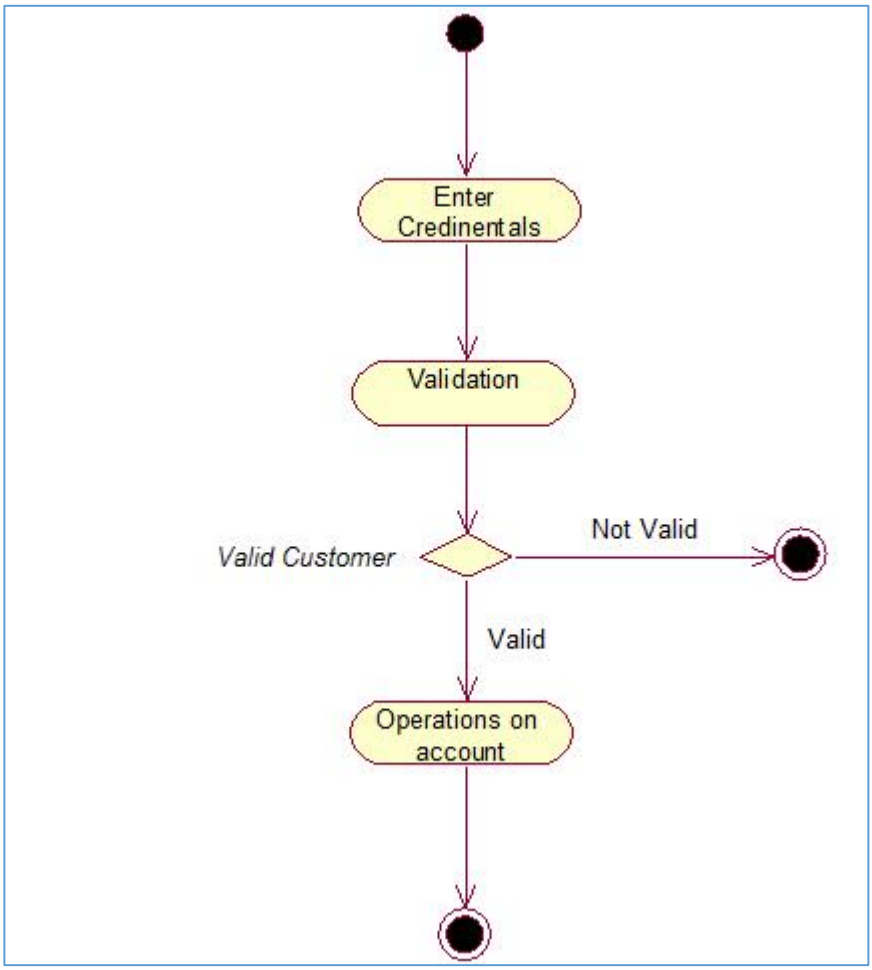
Collaboration Diagram



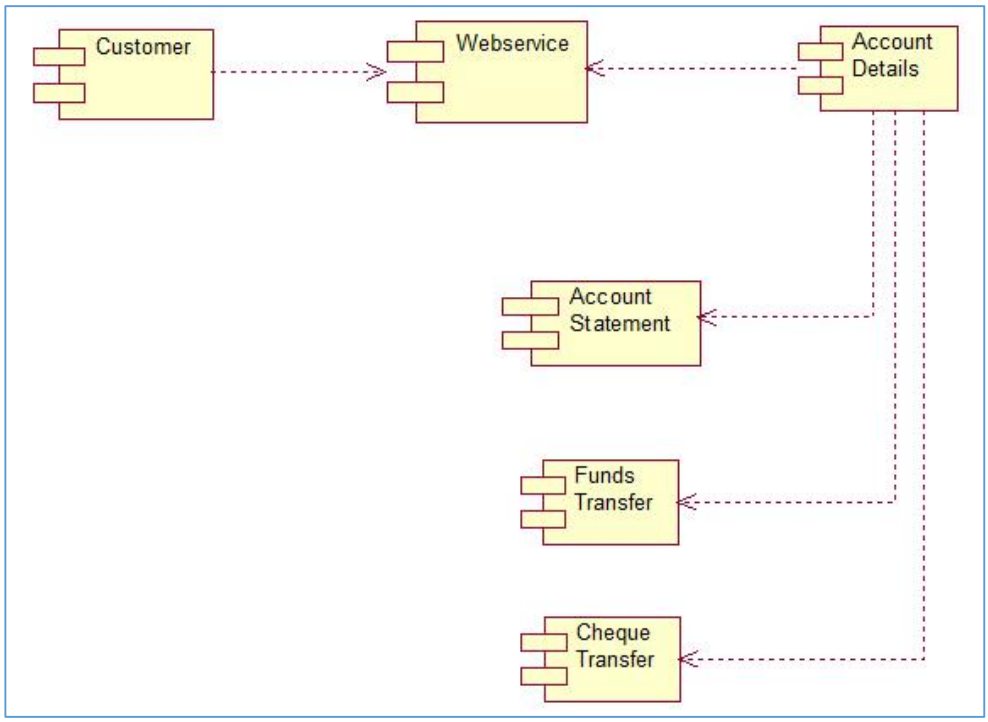
Statechart Diagram



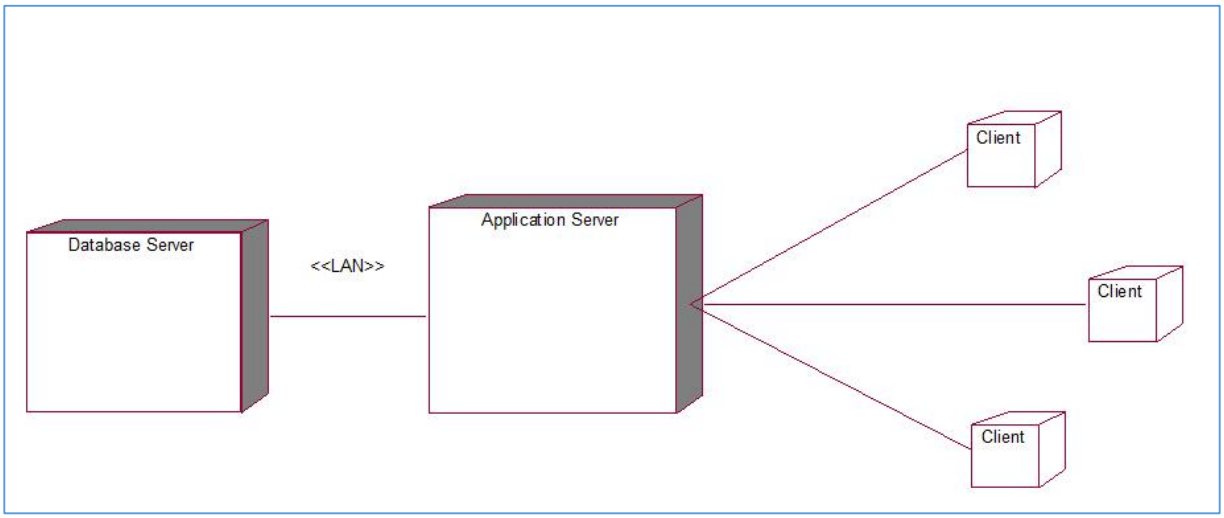
Activity Diagram



Component Diagram

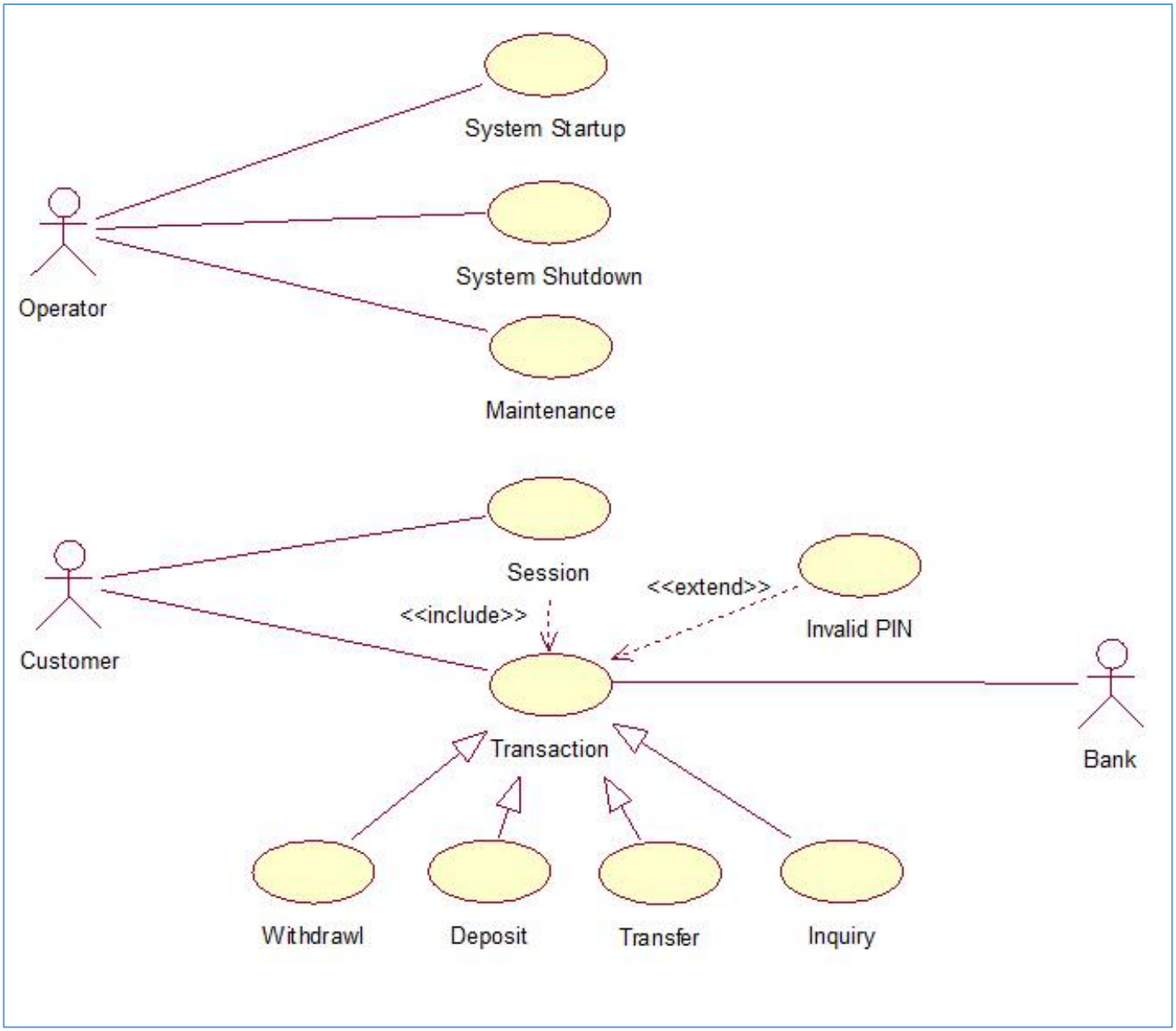


Deployment Diagram

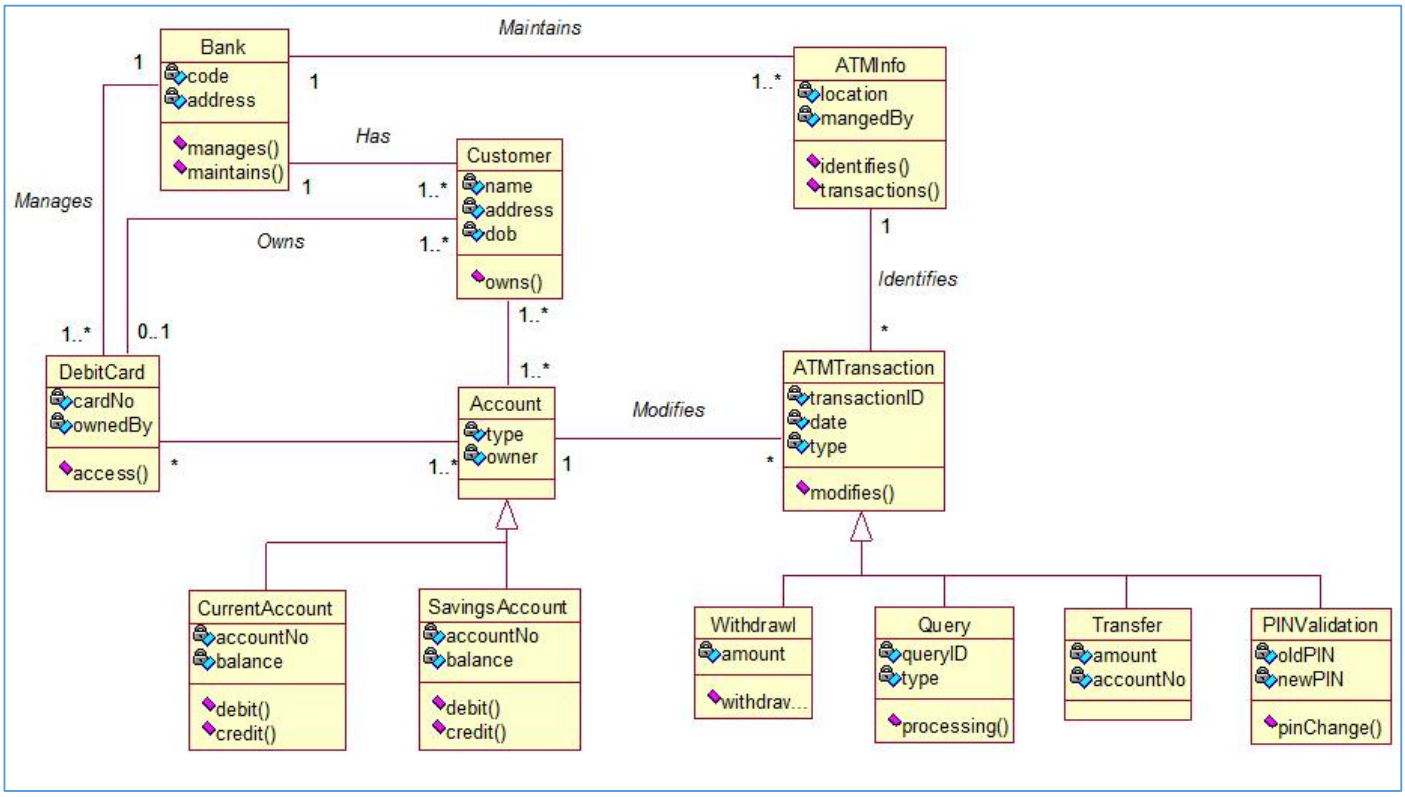


UML diagrams for ATM application

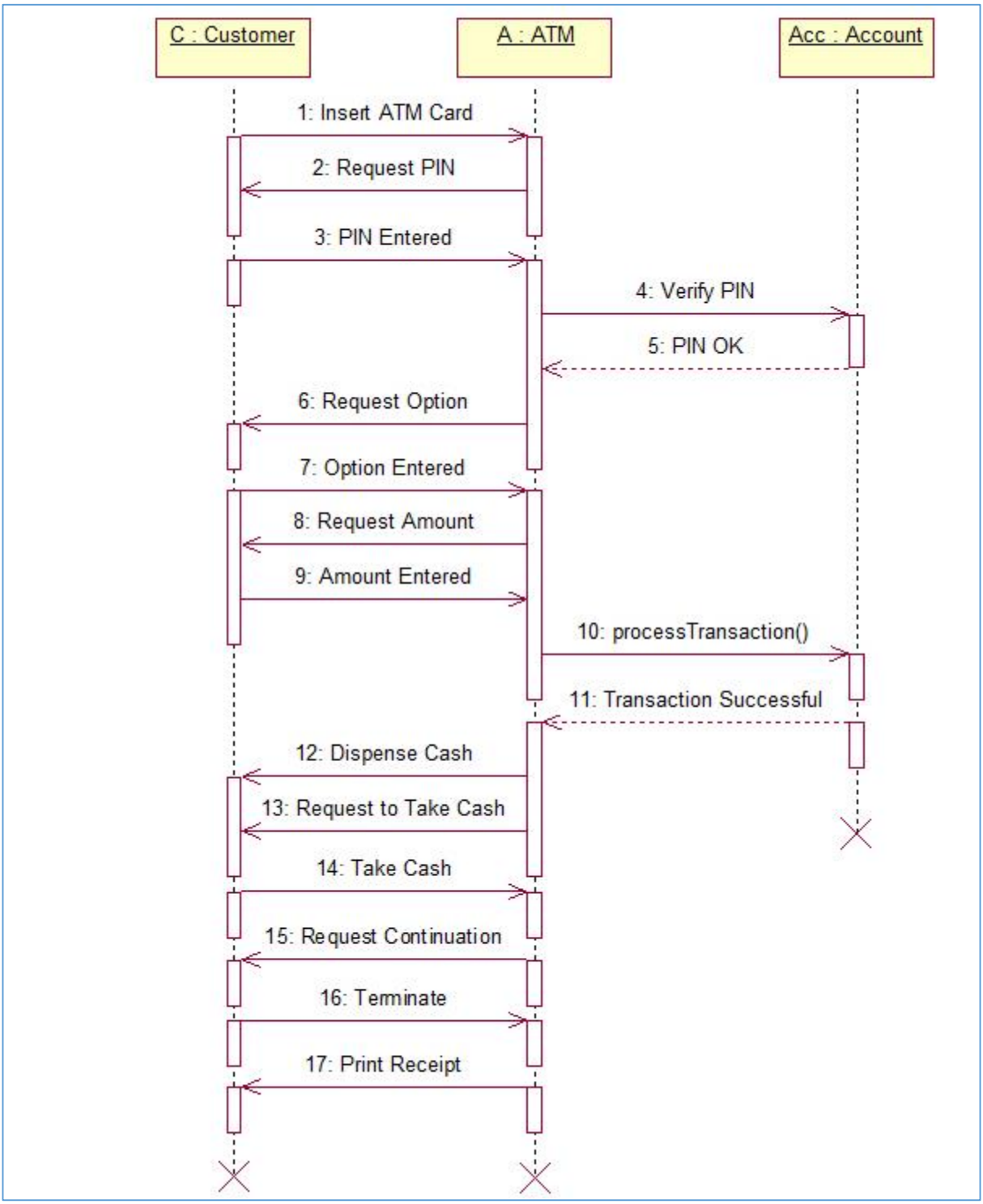
Use case diagram



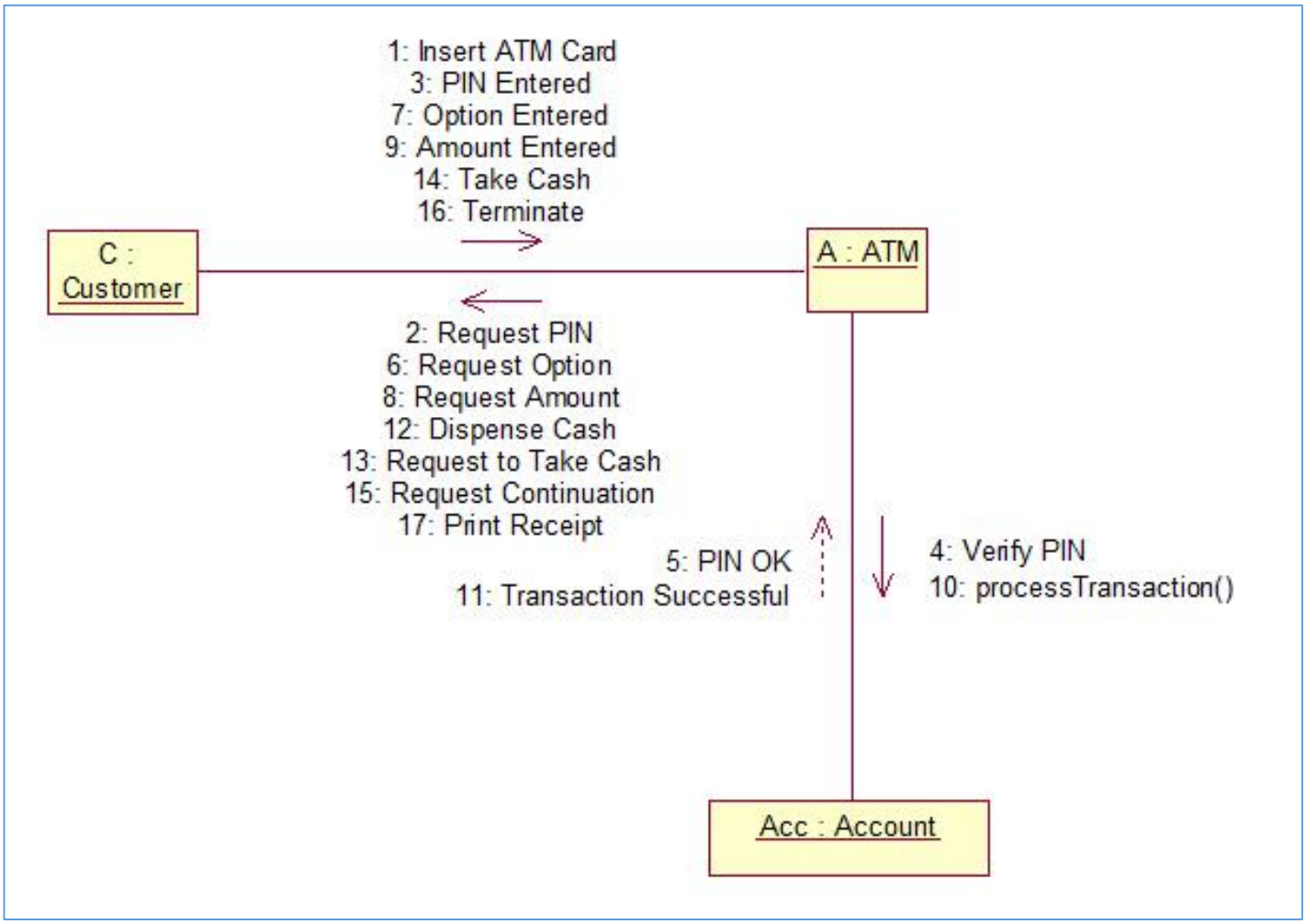
Class diagram


Bank
code
address
manages()
maintains()
Maintains
ATMInfo
location
mangedBy
identifies()
transactions()
Has
Customer
name
address
dob
owns()
Manages
Owns
Identifies
DebitCard
cardNo
ownedBy
access()
Account
type
owner
Modifies
ATMTransaction
transactionID
date
type
modifies()
CurrentAccount
accountNo
balance
debit()
credit()
SavingsAccount
accountNo
balance
debit()
credit()
Withdrawl
amount
withdrav...
Query
queryID
type
processing()
Transfer
amount
accountNo
PINValidation
oldPIN
newPIN
pinChange()

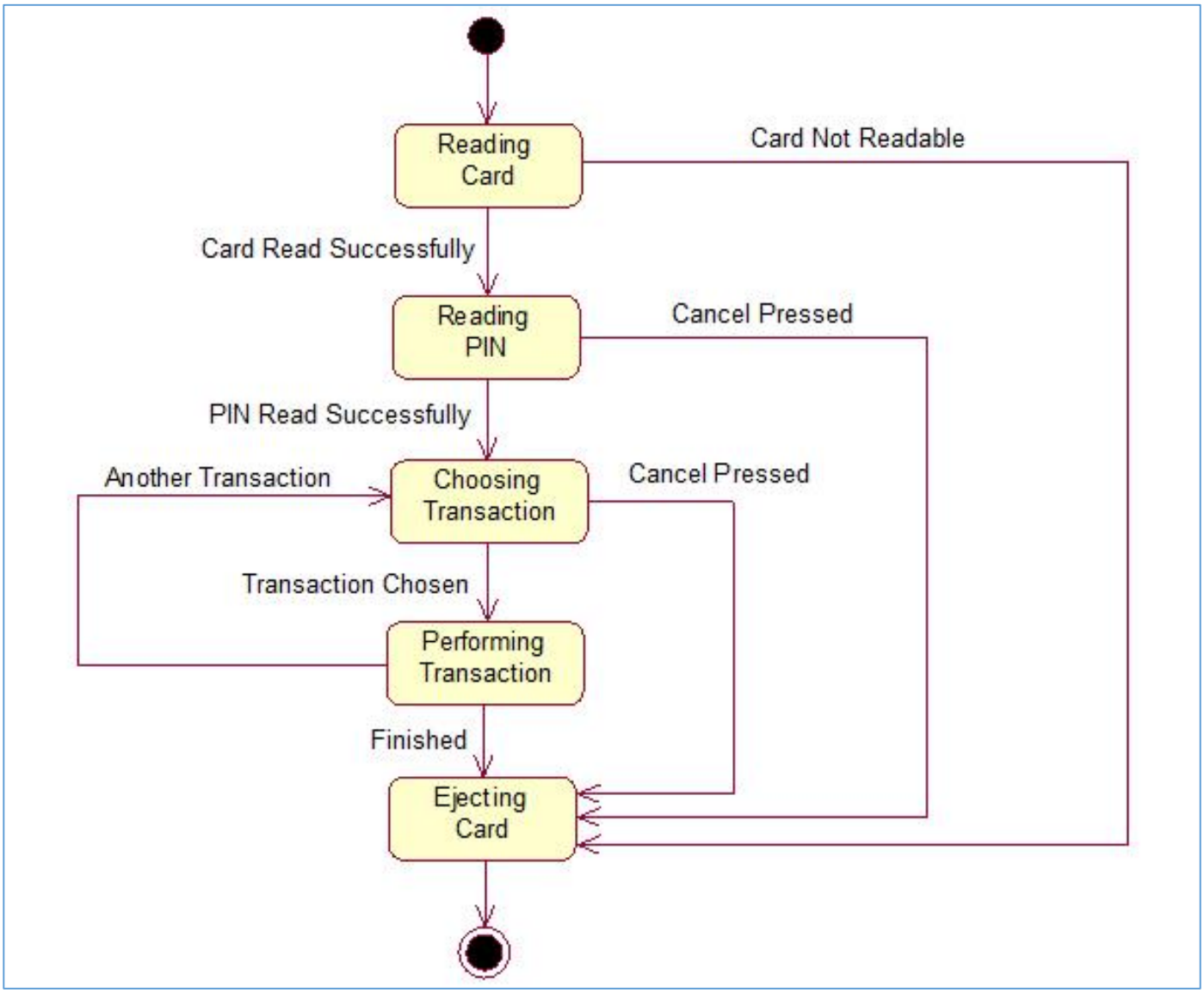
Sequence diagram



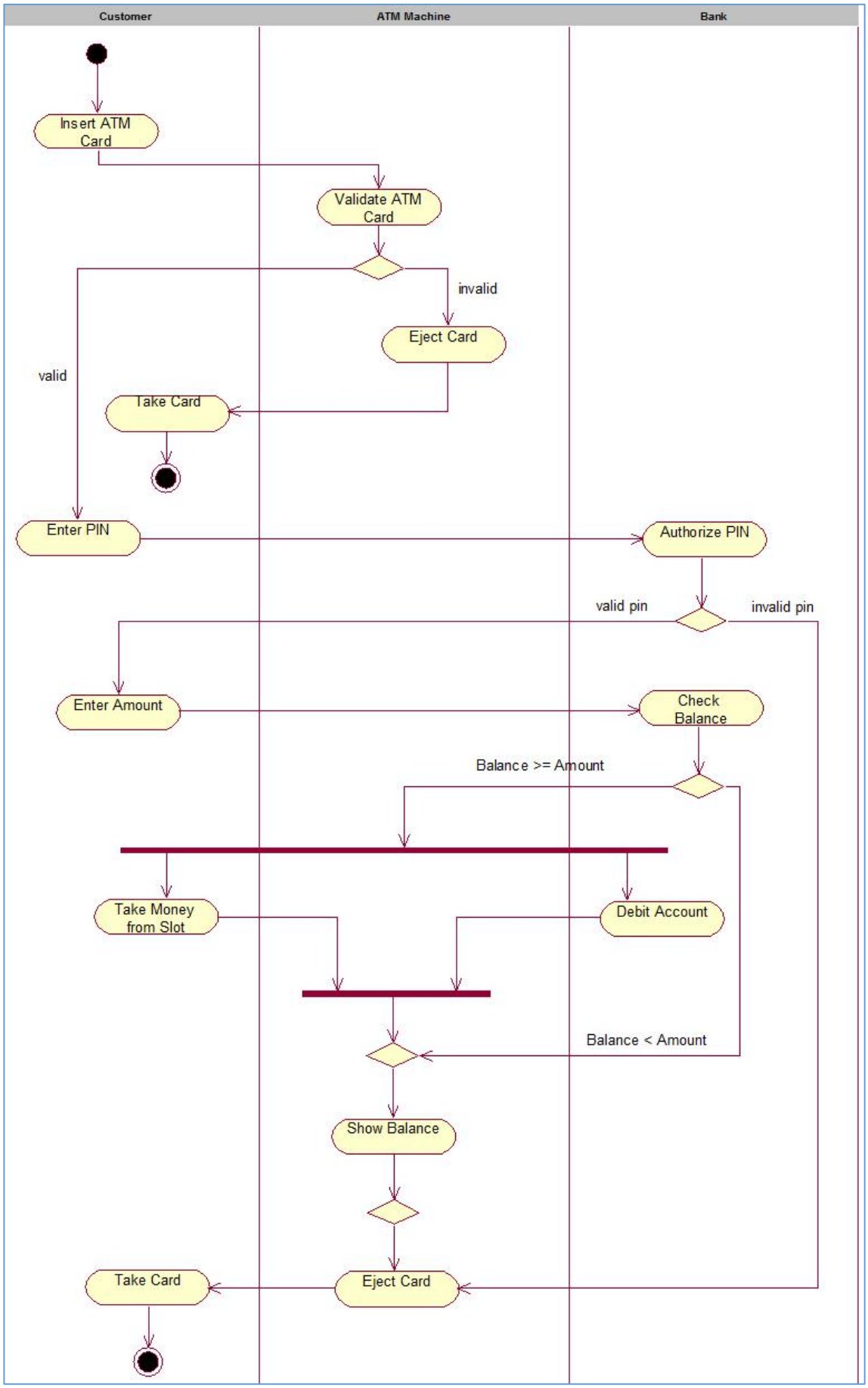
Collaboration diagram



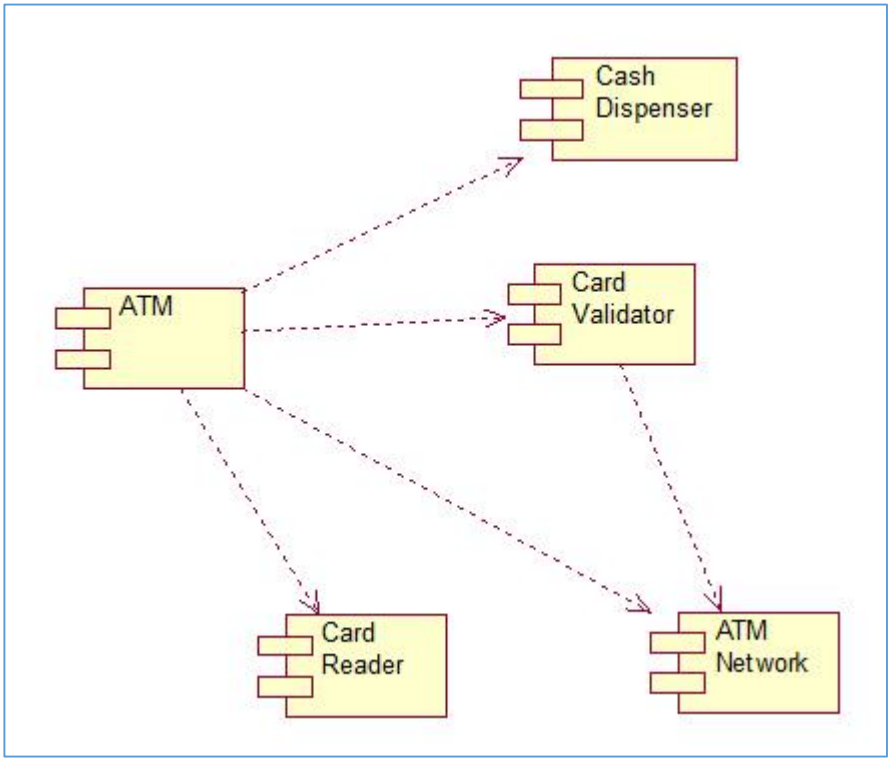
Statechart diagram



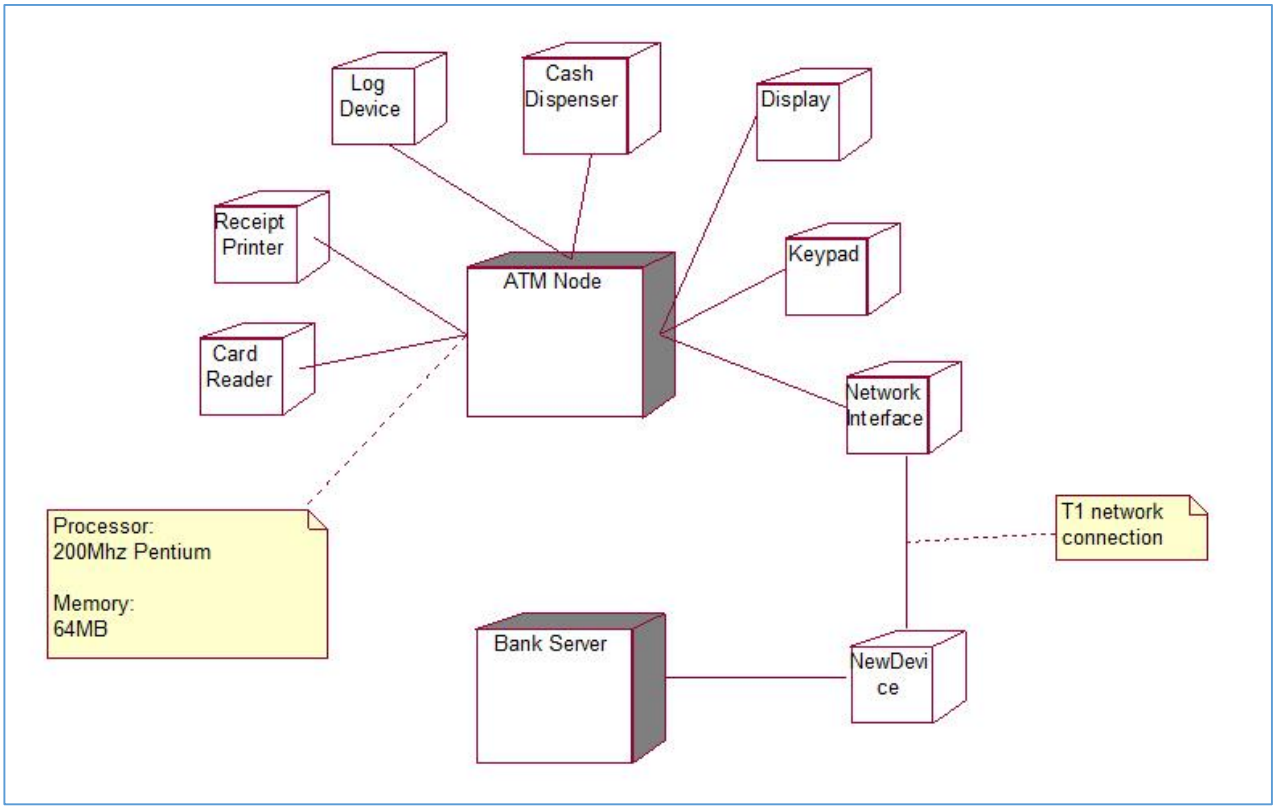
Activity diagram



Component diagram

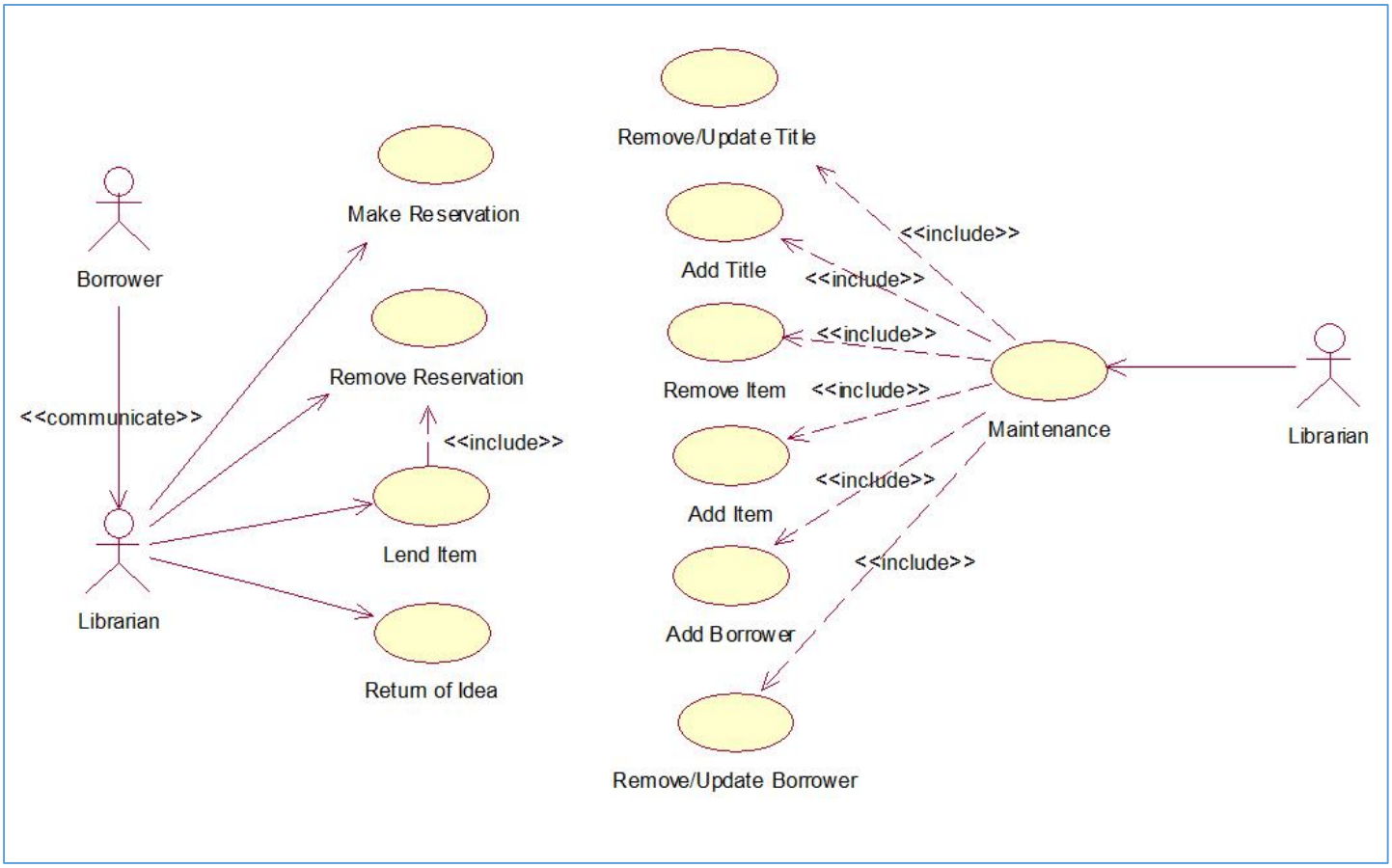


Deployment diagram

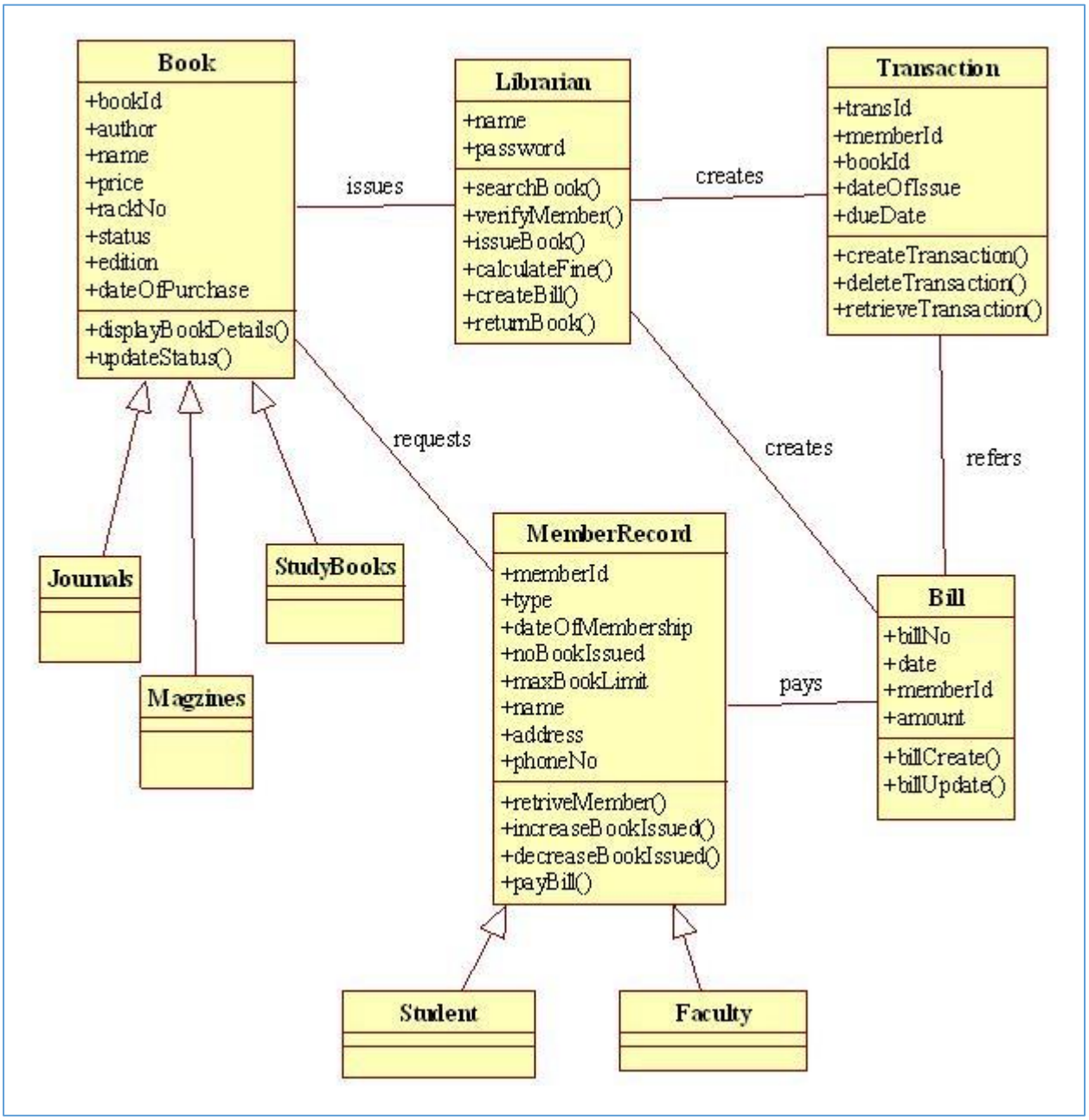


UML diagrams for library management system

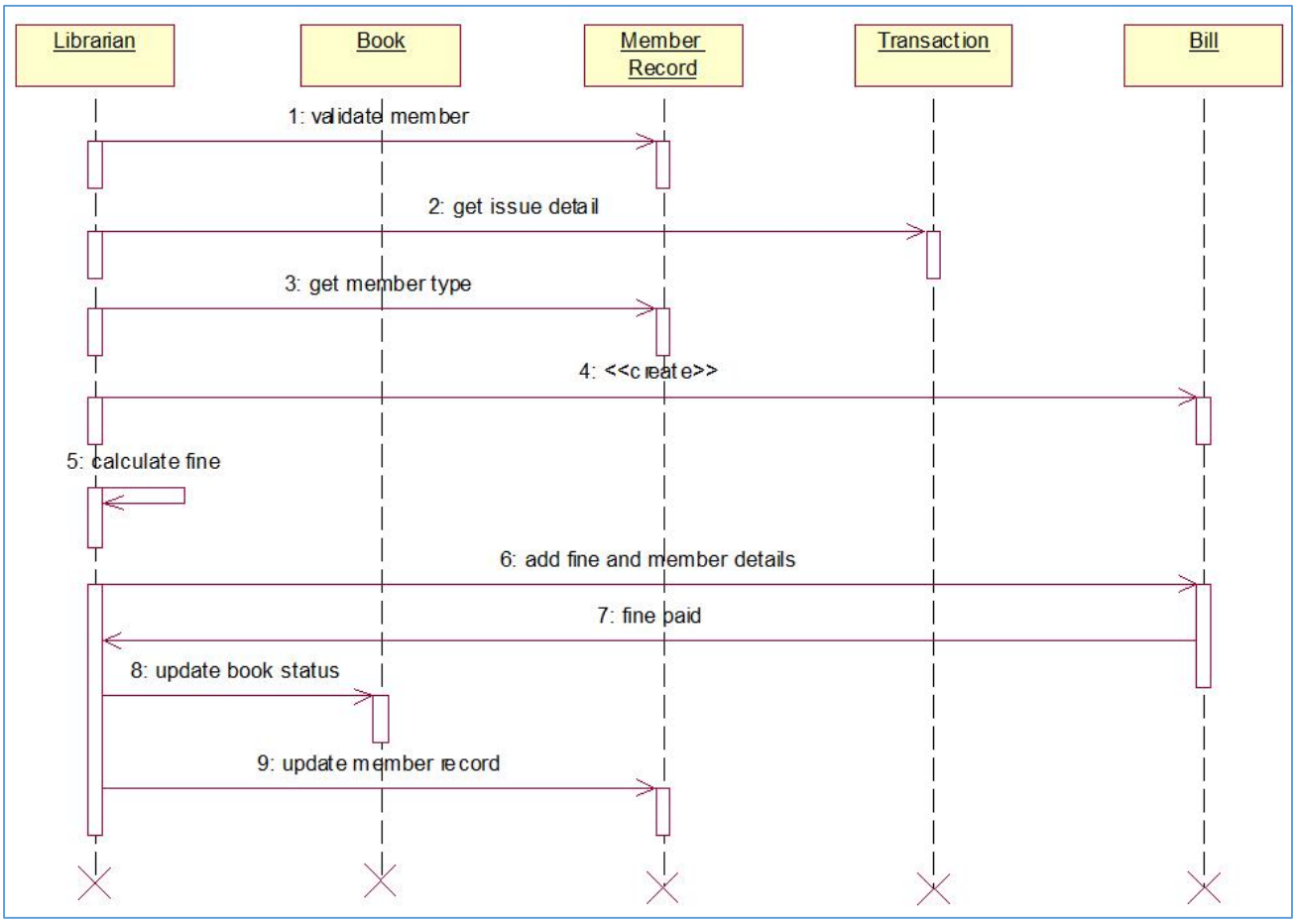
Use case diagram



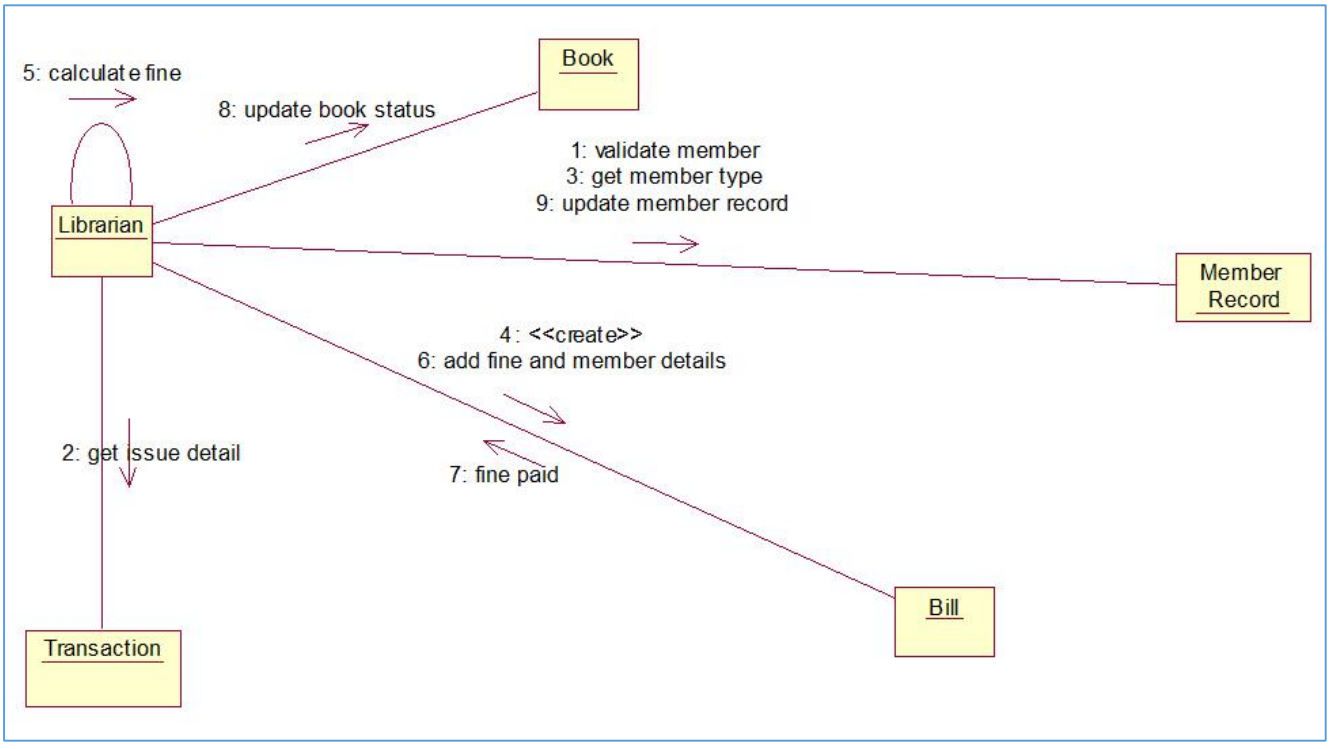
Class diagram


Book
+bookId
+author
+name
+price
+rackNo
+status
+edition
+dateOfPurchase
+displayBookDetails()
+updateStatus()
Librarian
+name
+password
+searchBooks()
+verifyMember()
+issueBooks()
+calculateFine()
+createBill()
+returnBook()
Transaction
+transId
+memberId
+bookId
+dateOfIssue
+dueDate
+createTransaction()
+deleteTransaction()
+retrieveTransaction()
issues
creates
requests
creates
refers
Journals
Magzines
StudyBooks
MemberRecord
+memberId
+type
+dateOfMembership
+noBookIssued
+maxBookLimit
+name
+address
+phoneNo
+retriveMember()
+increaseBookIssued()
+decreaseBookIssued()
+payBill()
Bill
+billNo
+date
+memberId
+amount
+billCreate()
+billUpdate()
pays
Student
Faculty

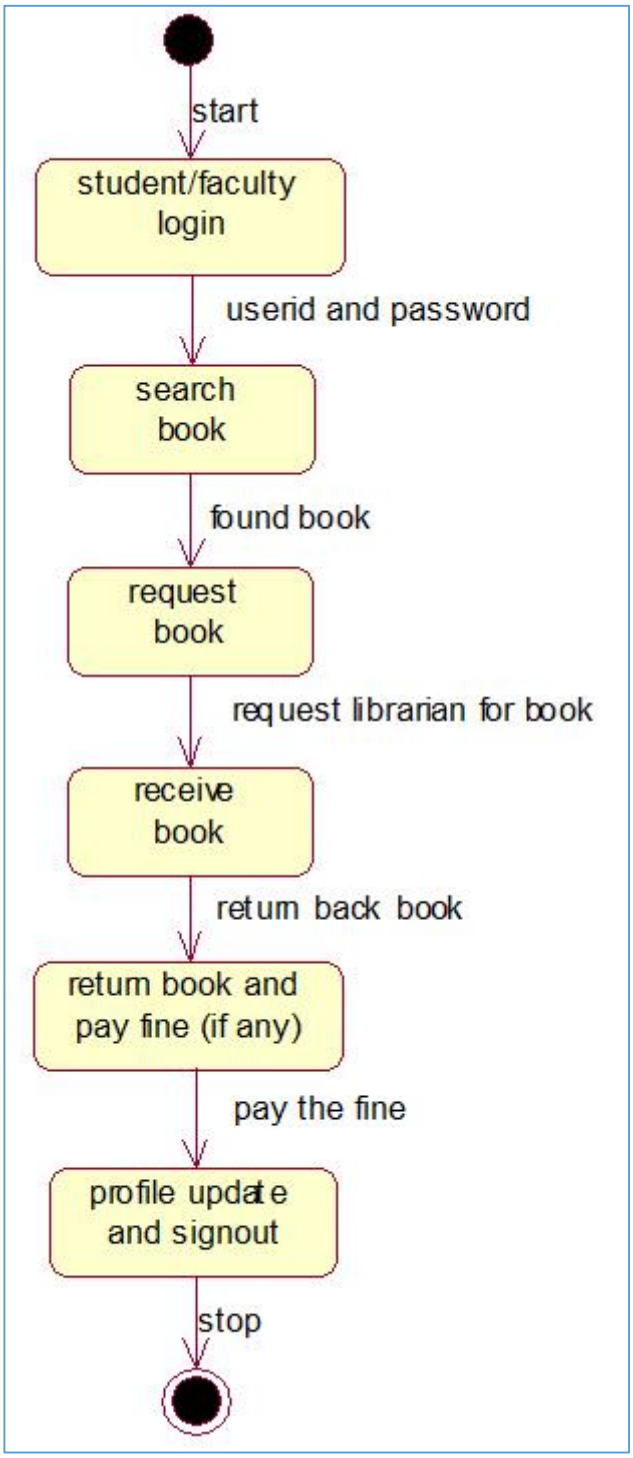
Sequence diagram



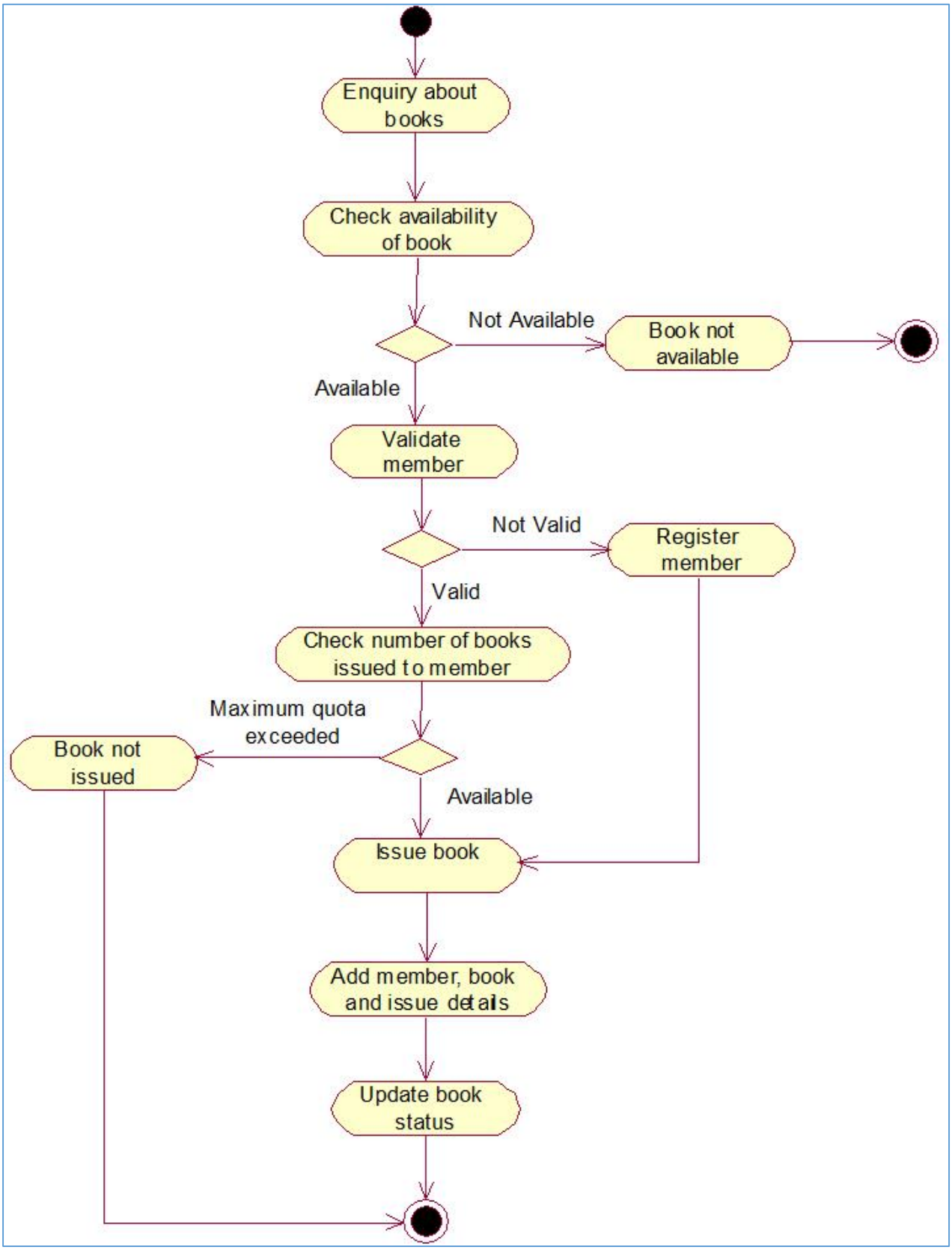
Collaboration diagram



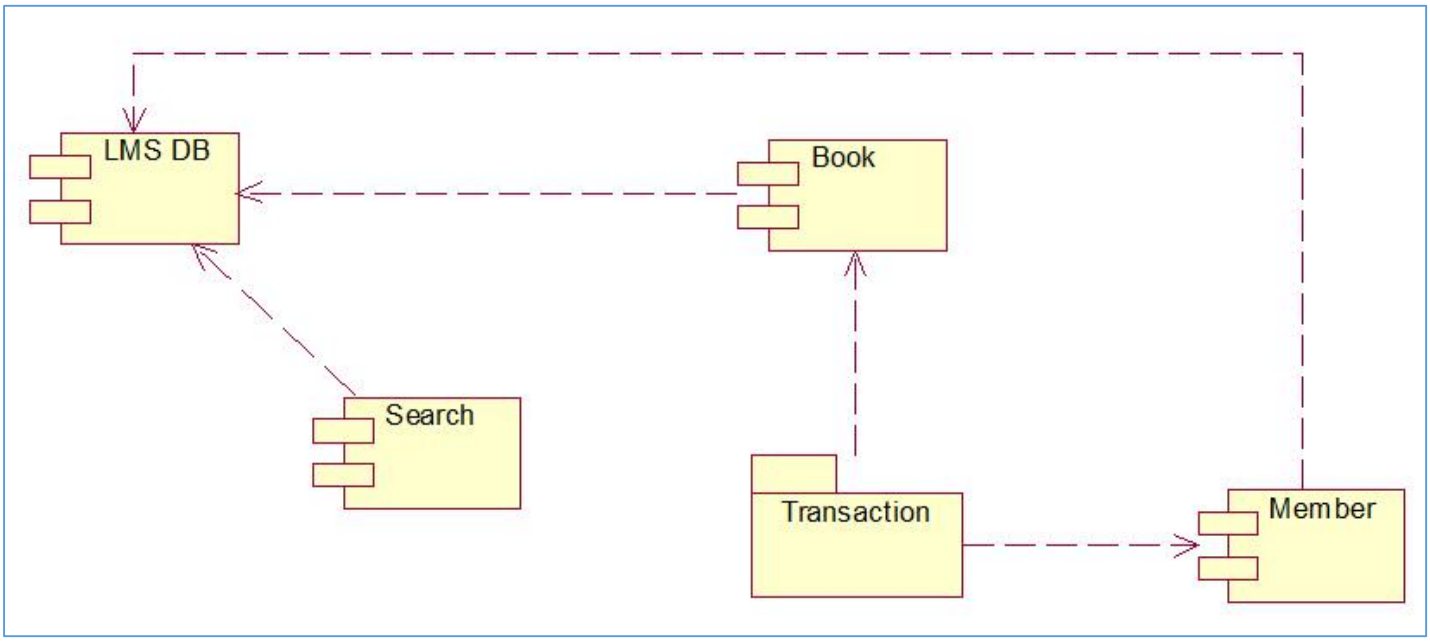
Statechart diagram



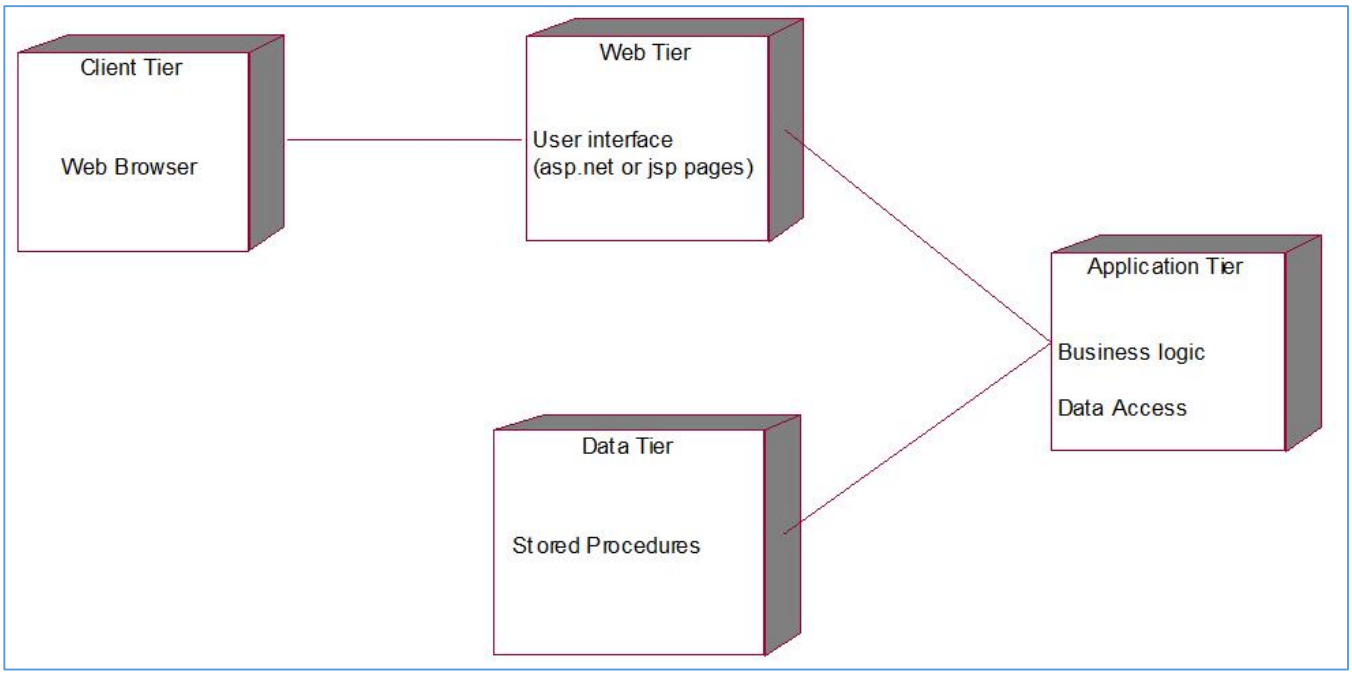
Activity diagram



Component diagram

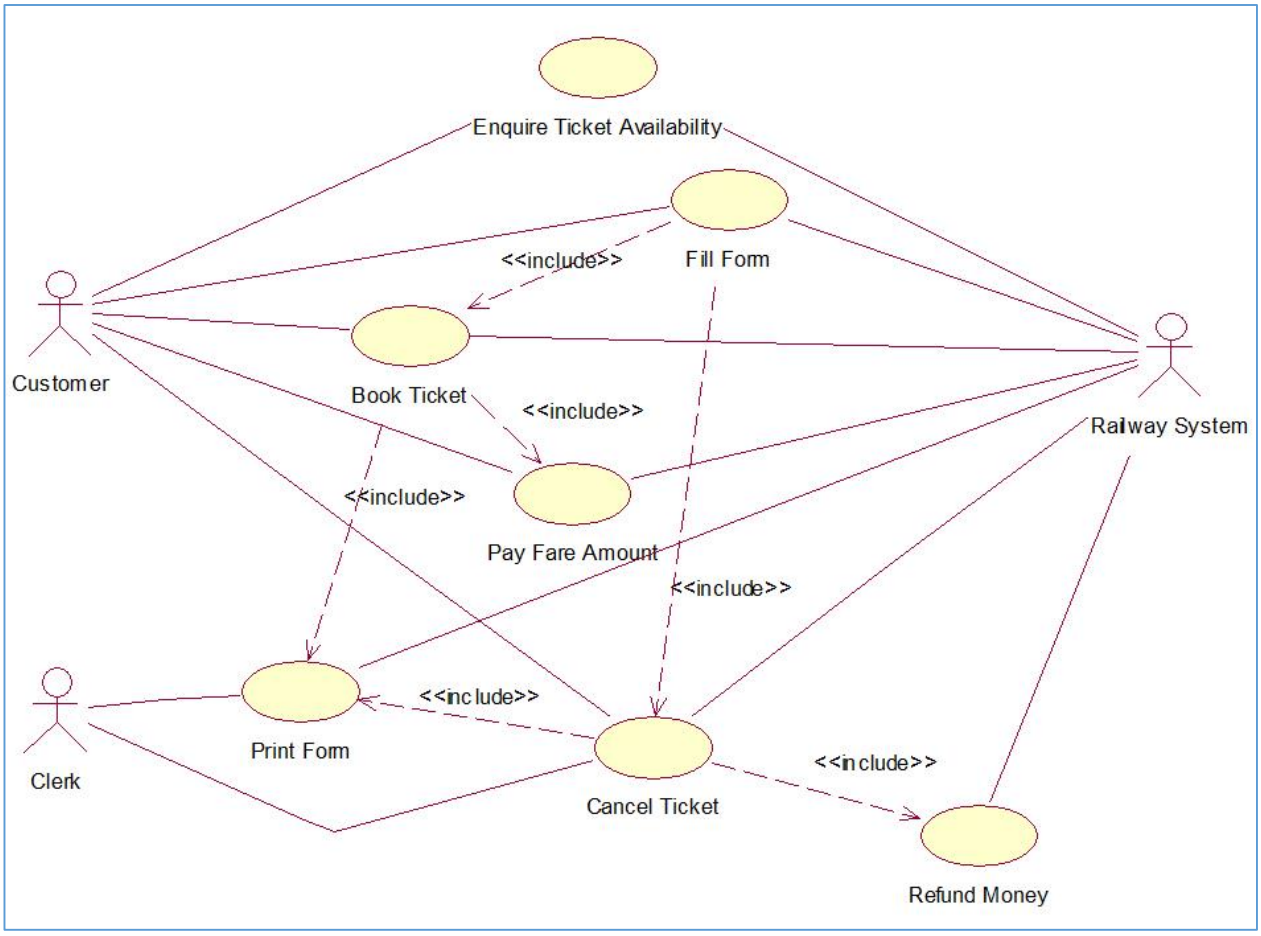


Deployment diagram

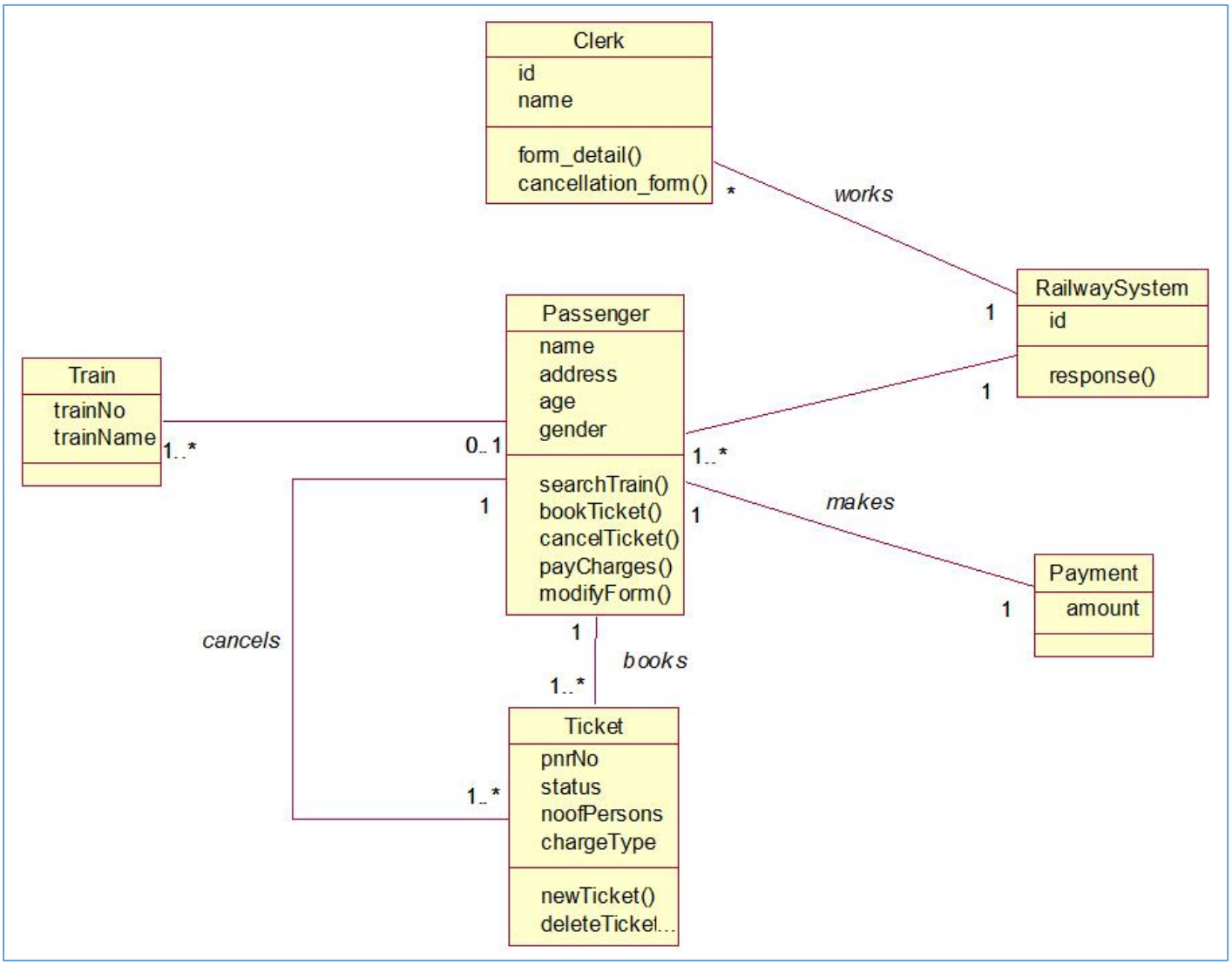


UML diagrams for railway reservation system

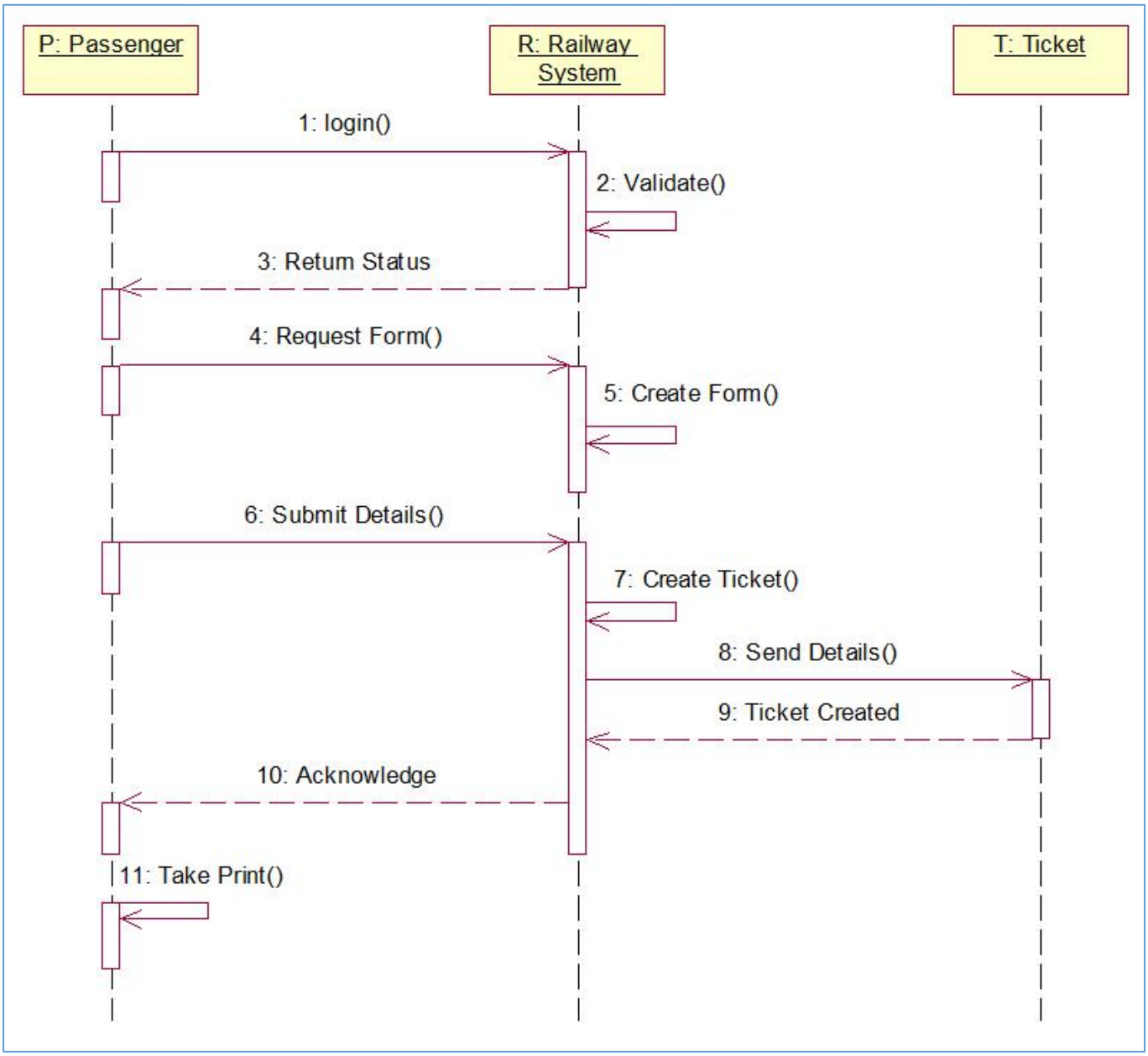
Use case diagram



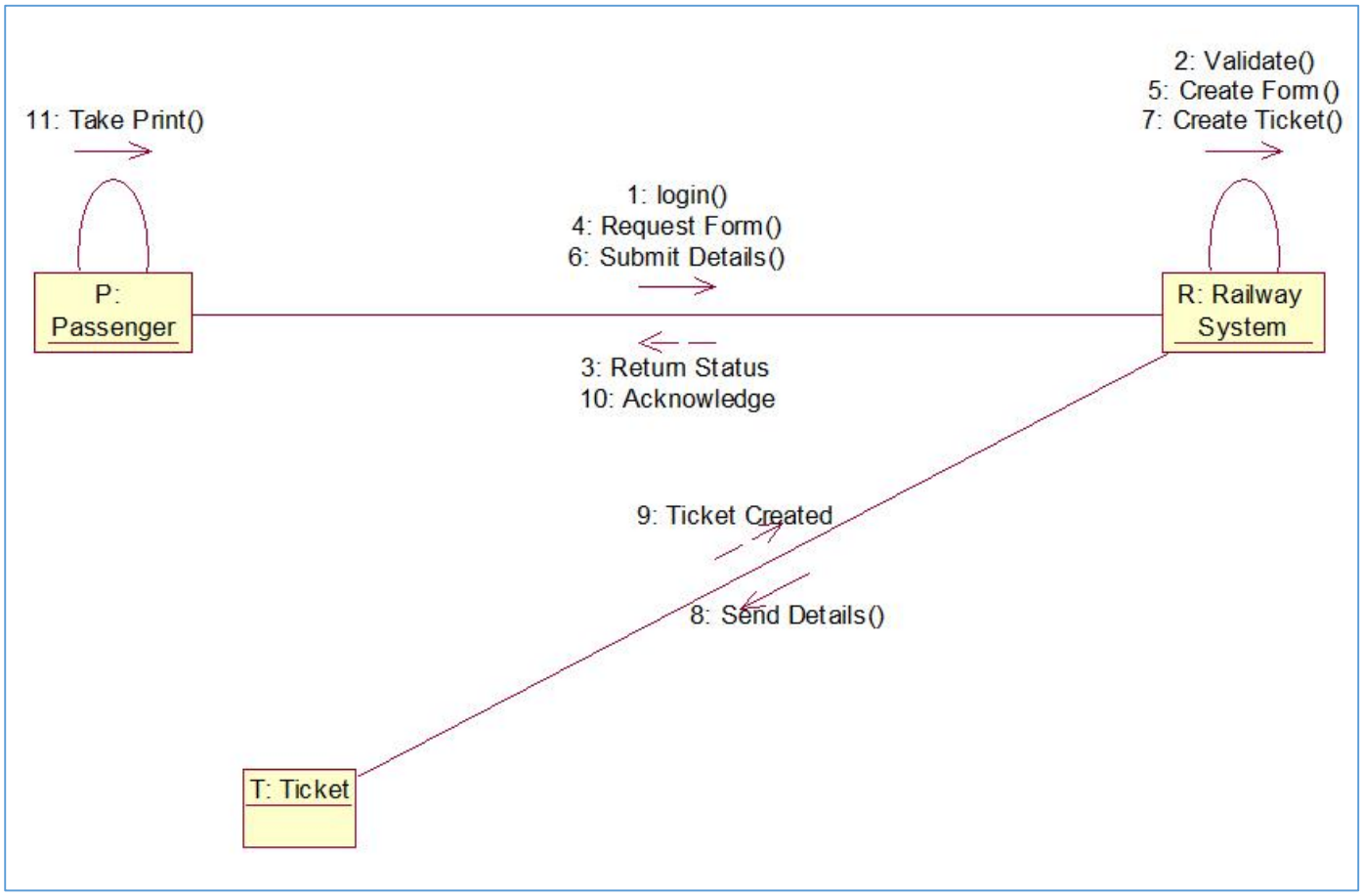
Class diagram



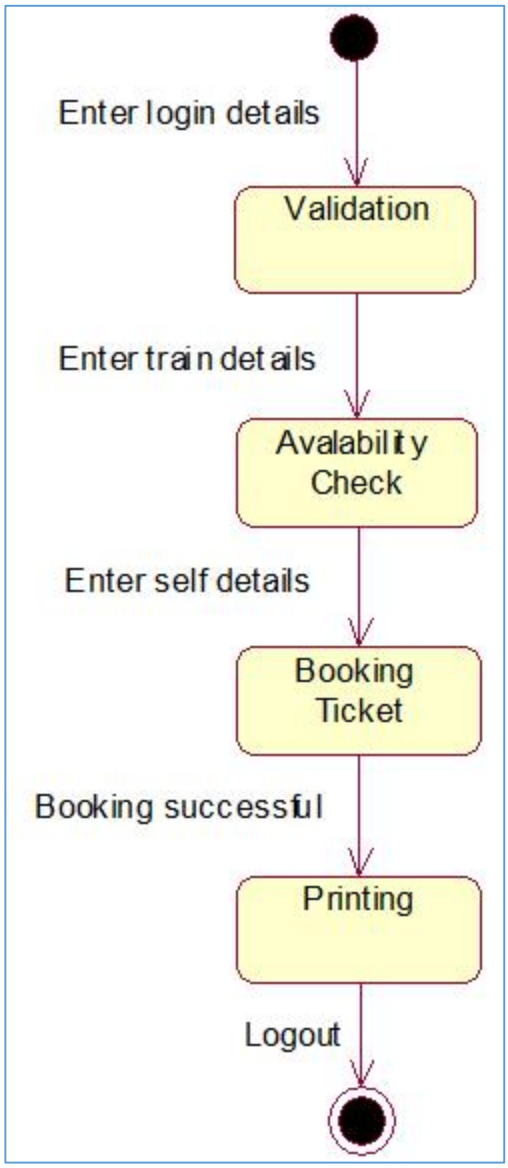
Sequence diagram



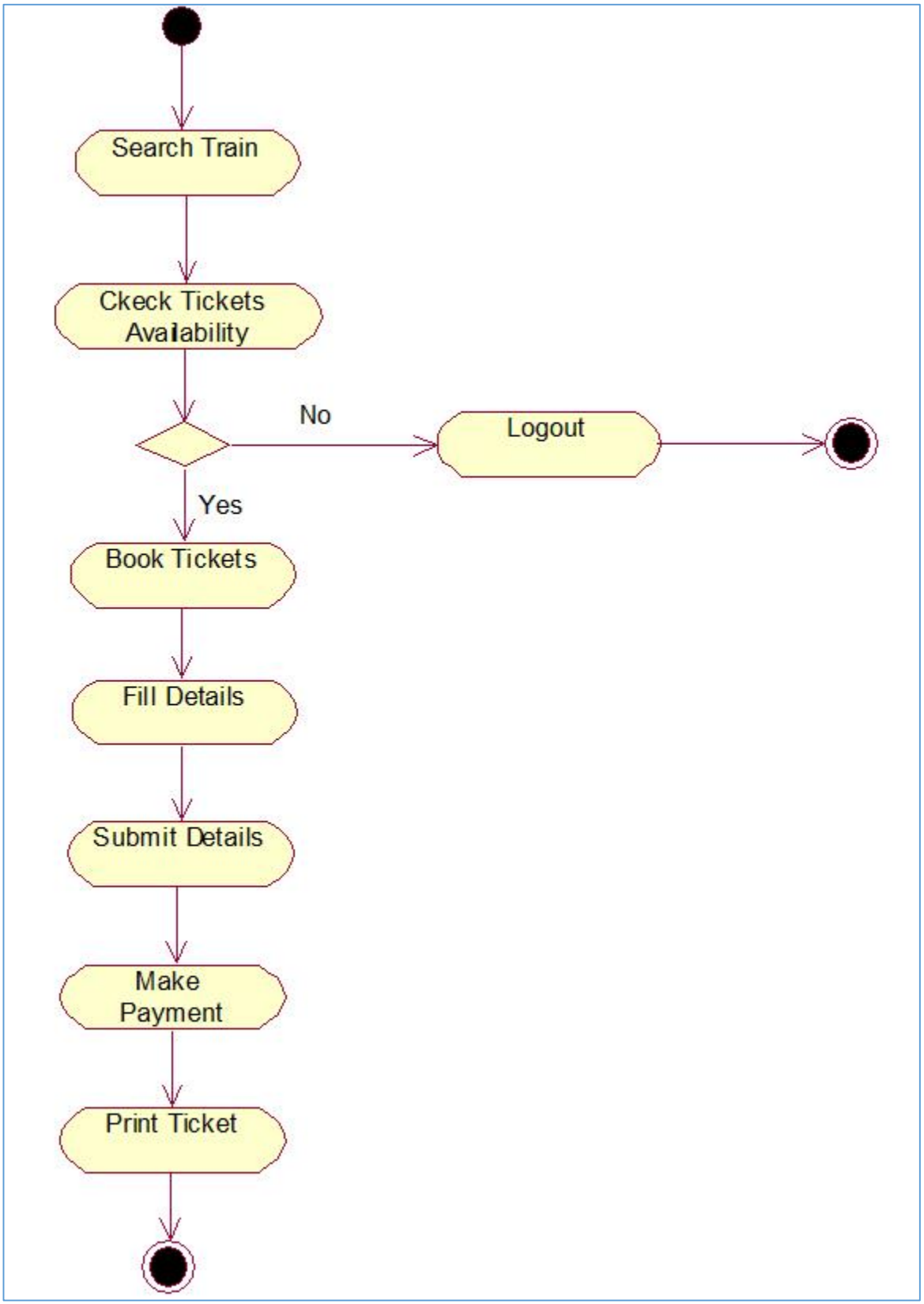
Collaboration diagram



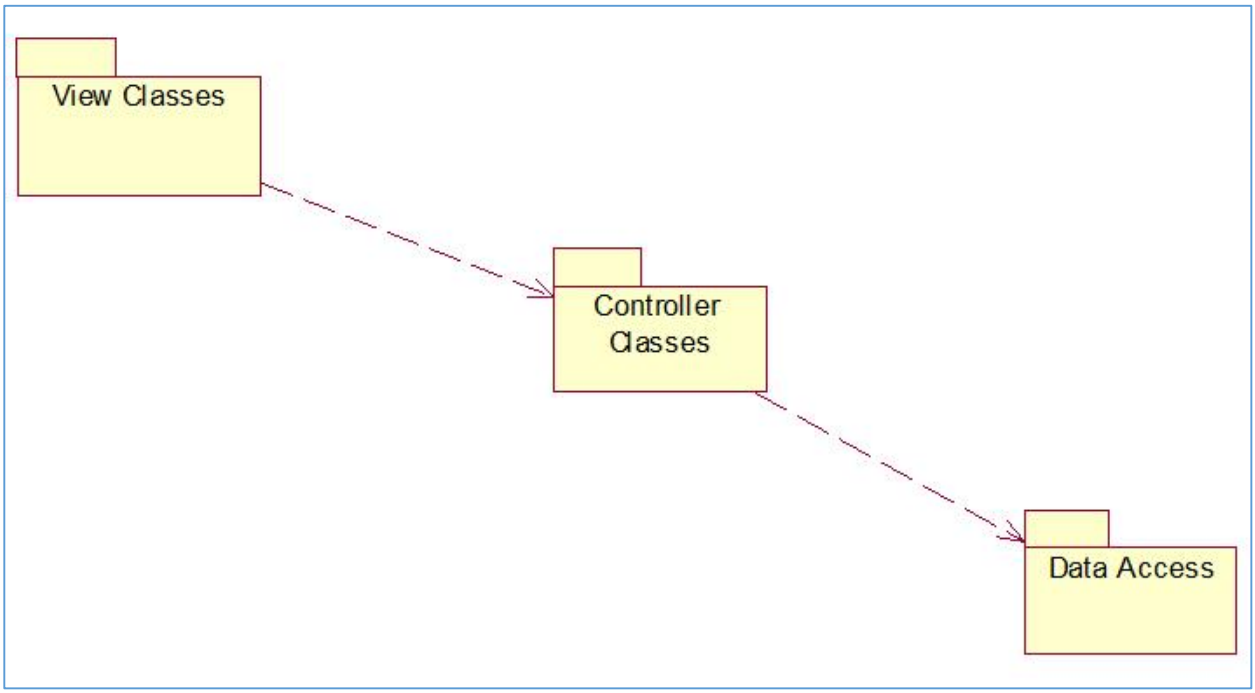
Statechart diagram



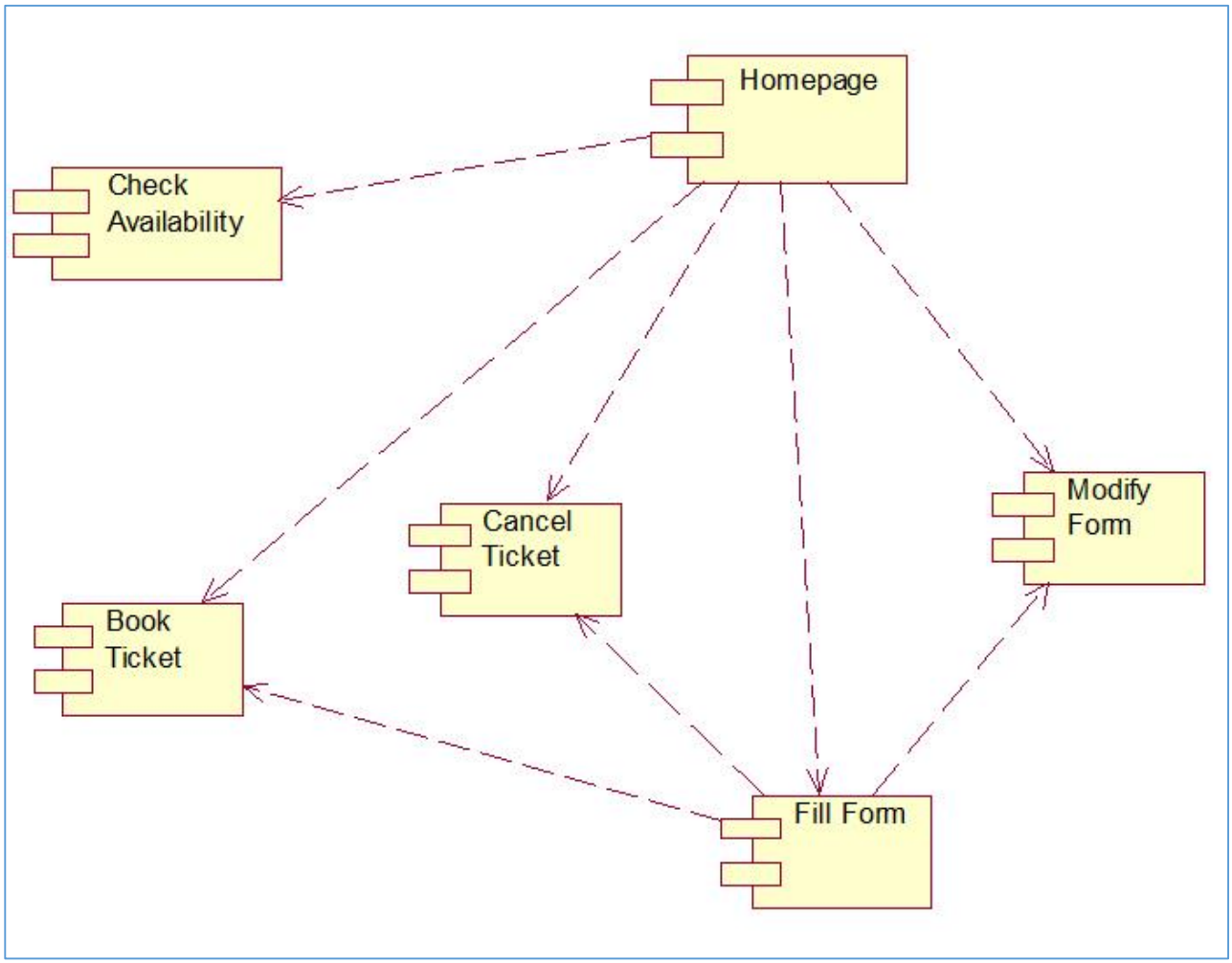
Activity diagram



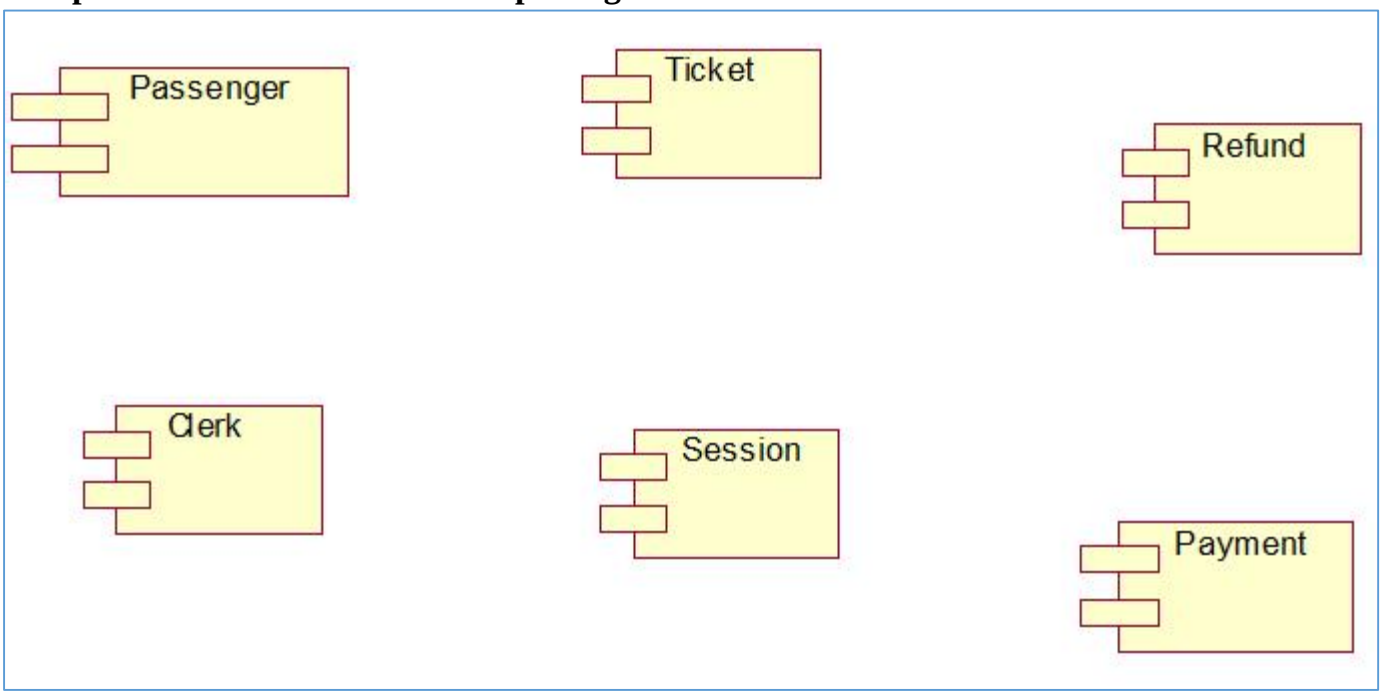
Component diagrams



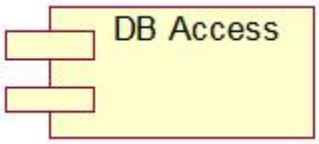
Components in View Classes package



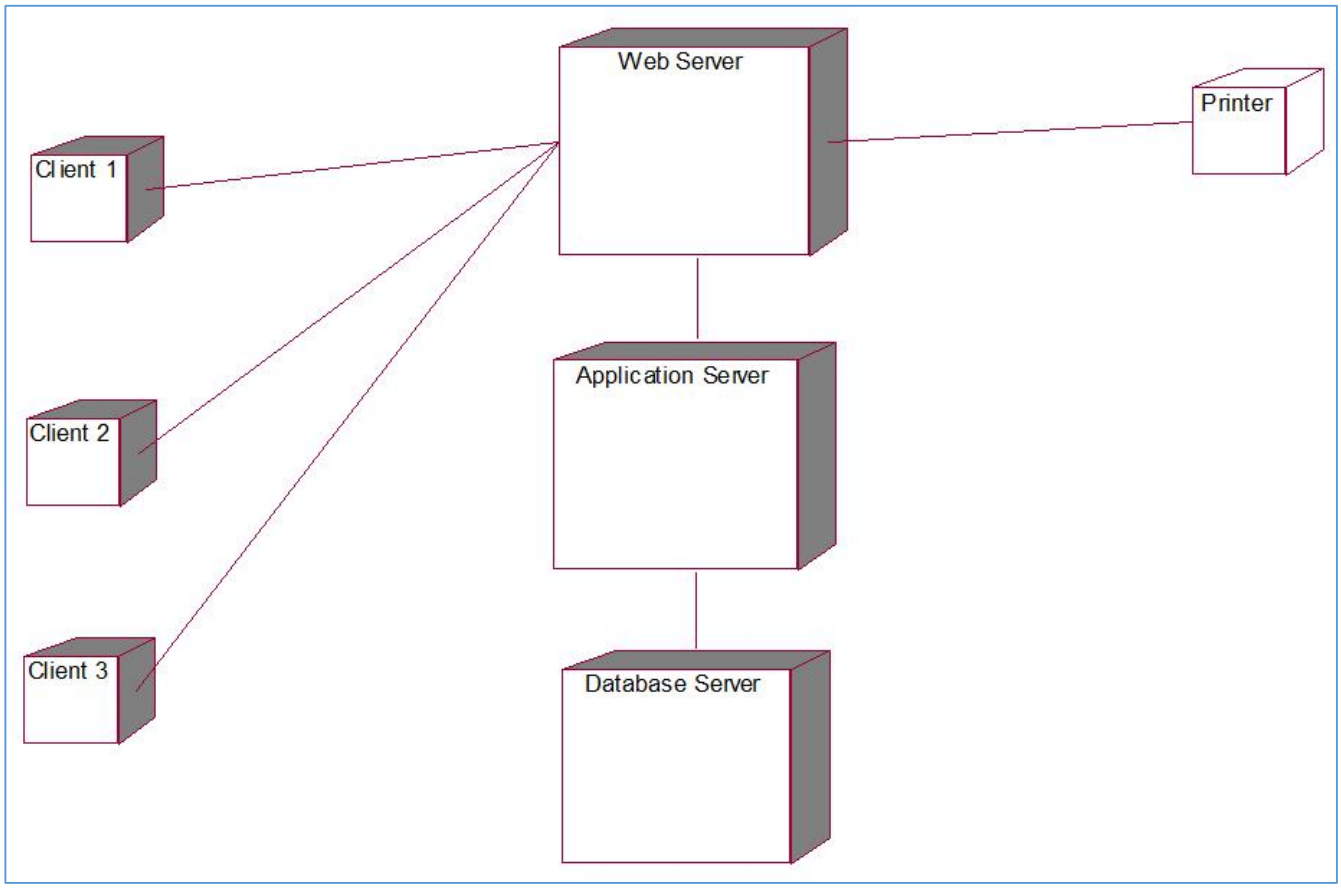
Components in Controller Classes package



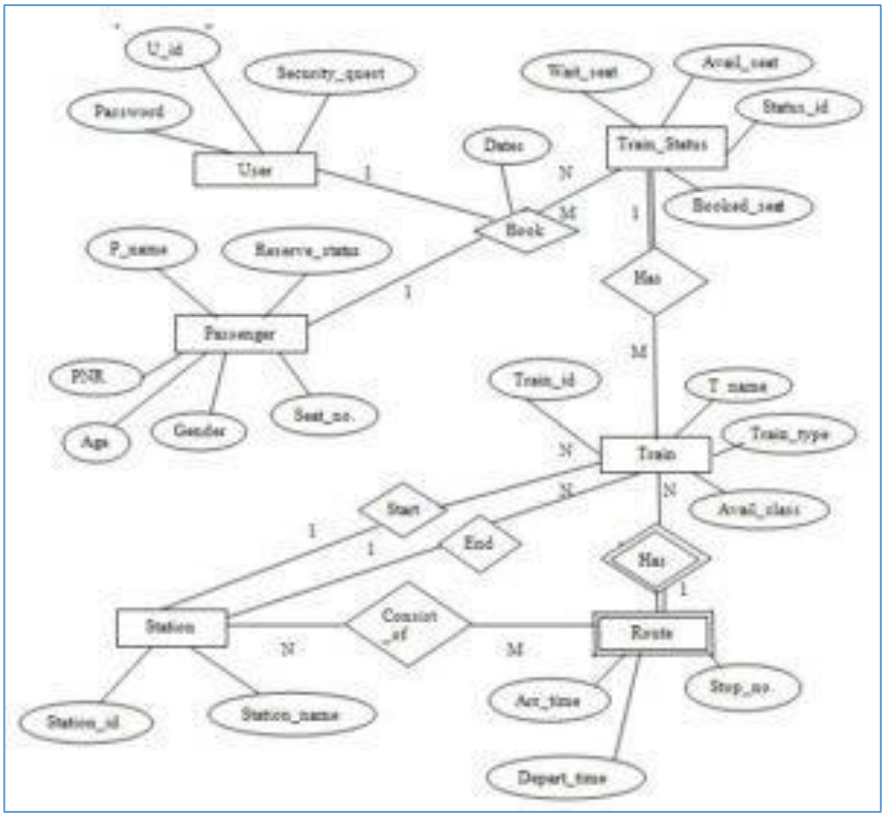
Component in Data Classes package



Deployment diagram



ER Diagram



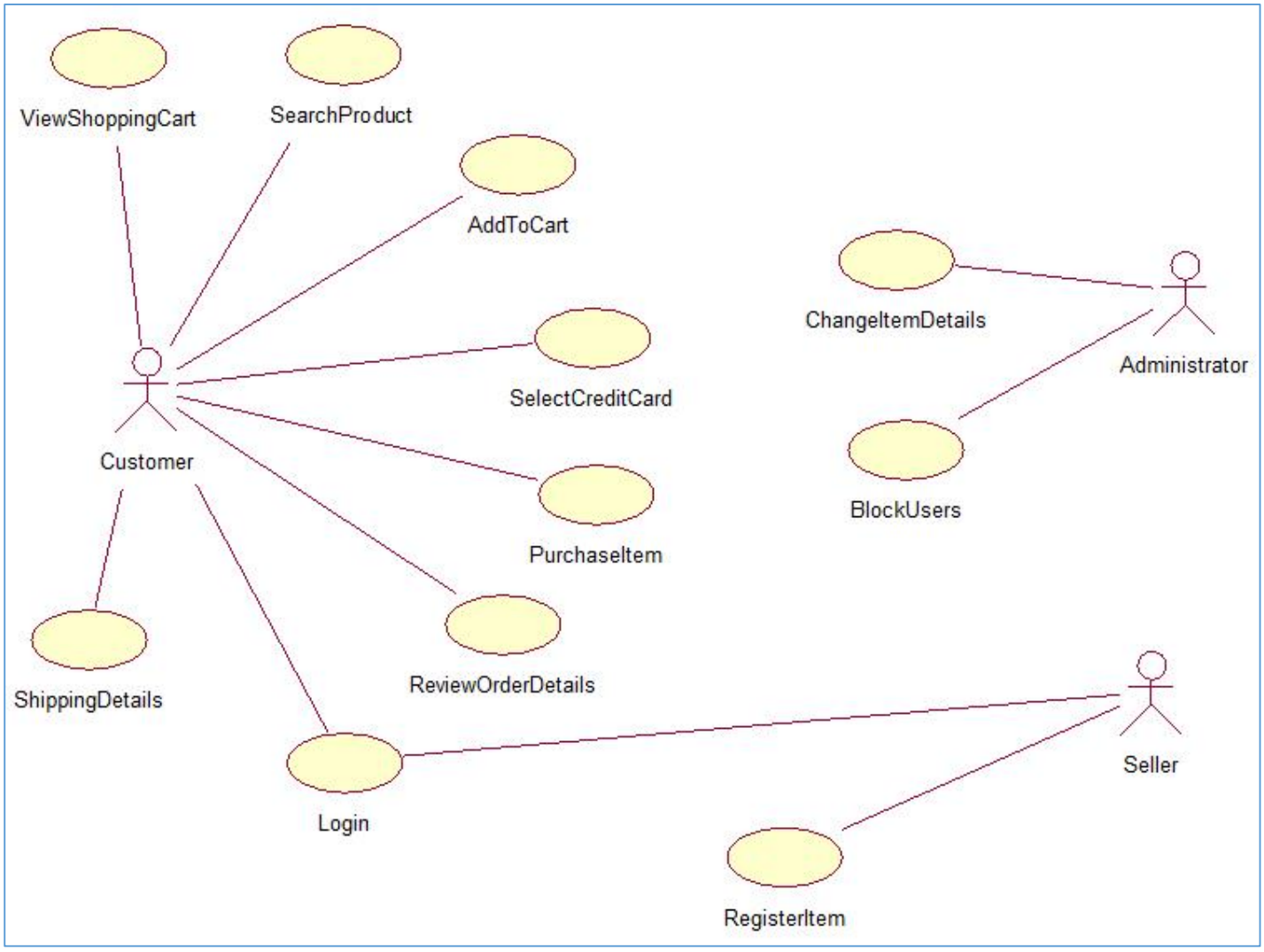
Source: https://www.ques10.com/p/9477/draw-e-r-diagram-for-online-ticket-railway-reser-1/

Data Flow Diagrams (DFDs)

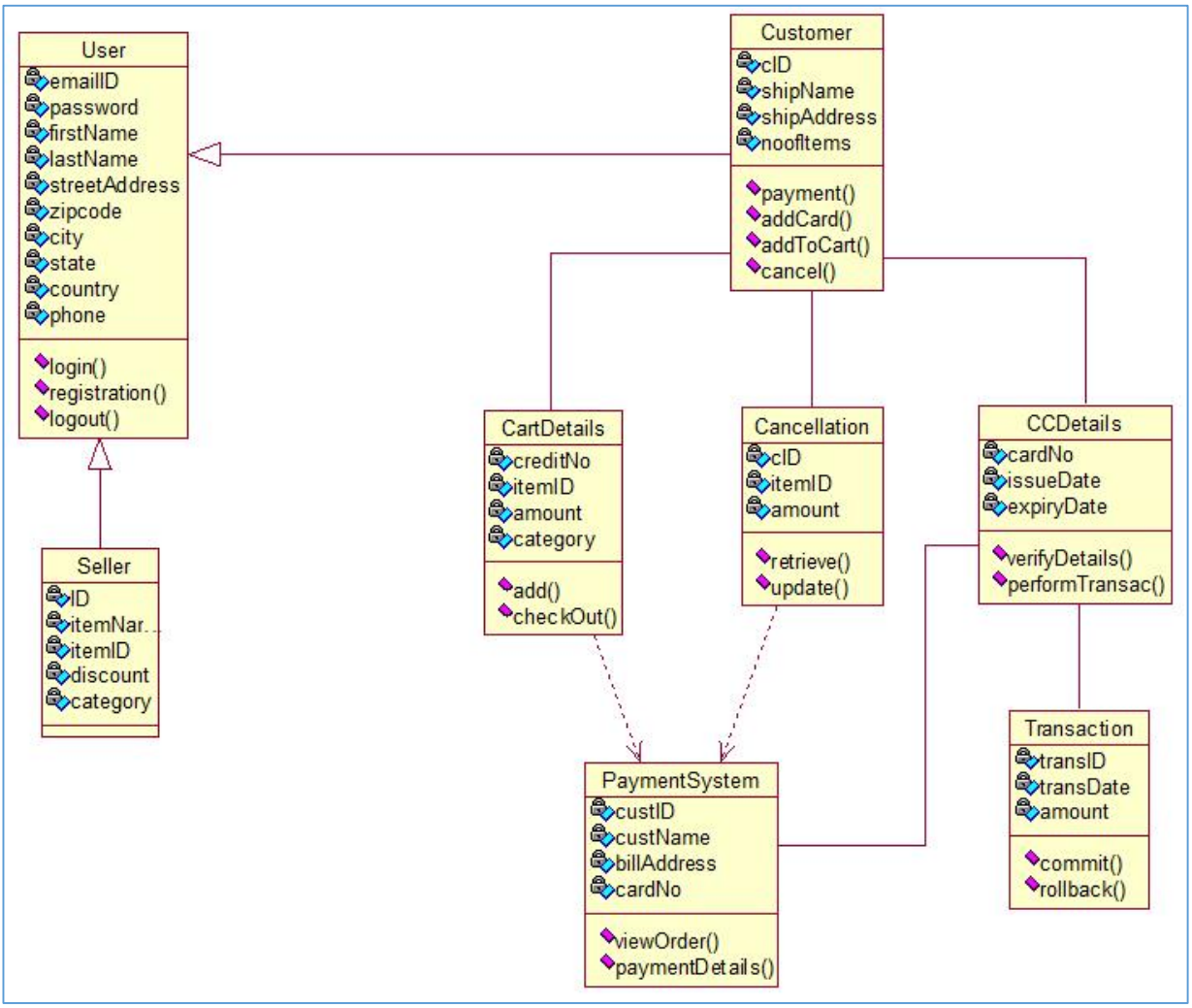
Visit this Slideshare URL for DFDs of railway reservation system

UML Diagrams for Online Book Shop

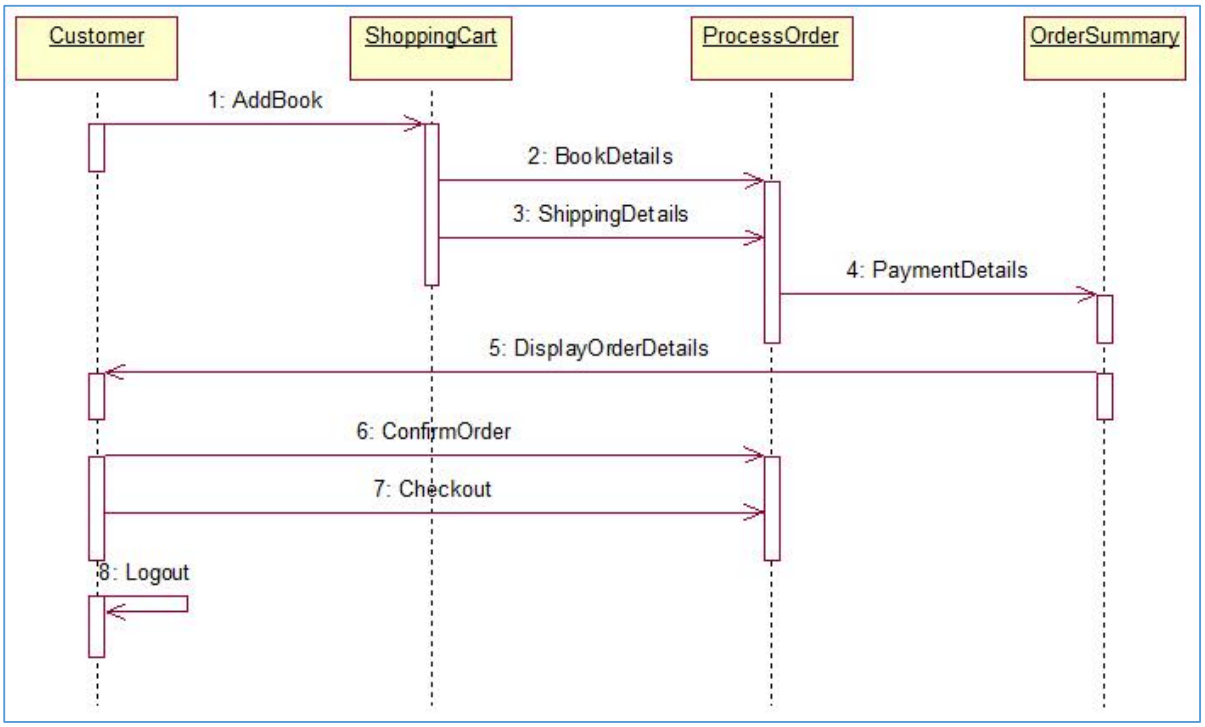
Use Case Diagram



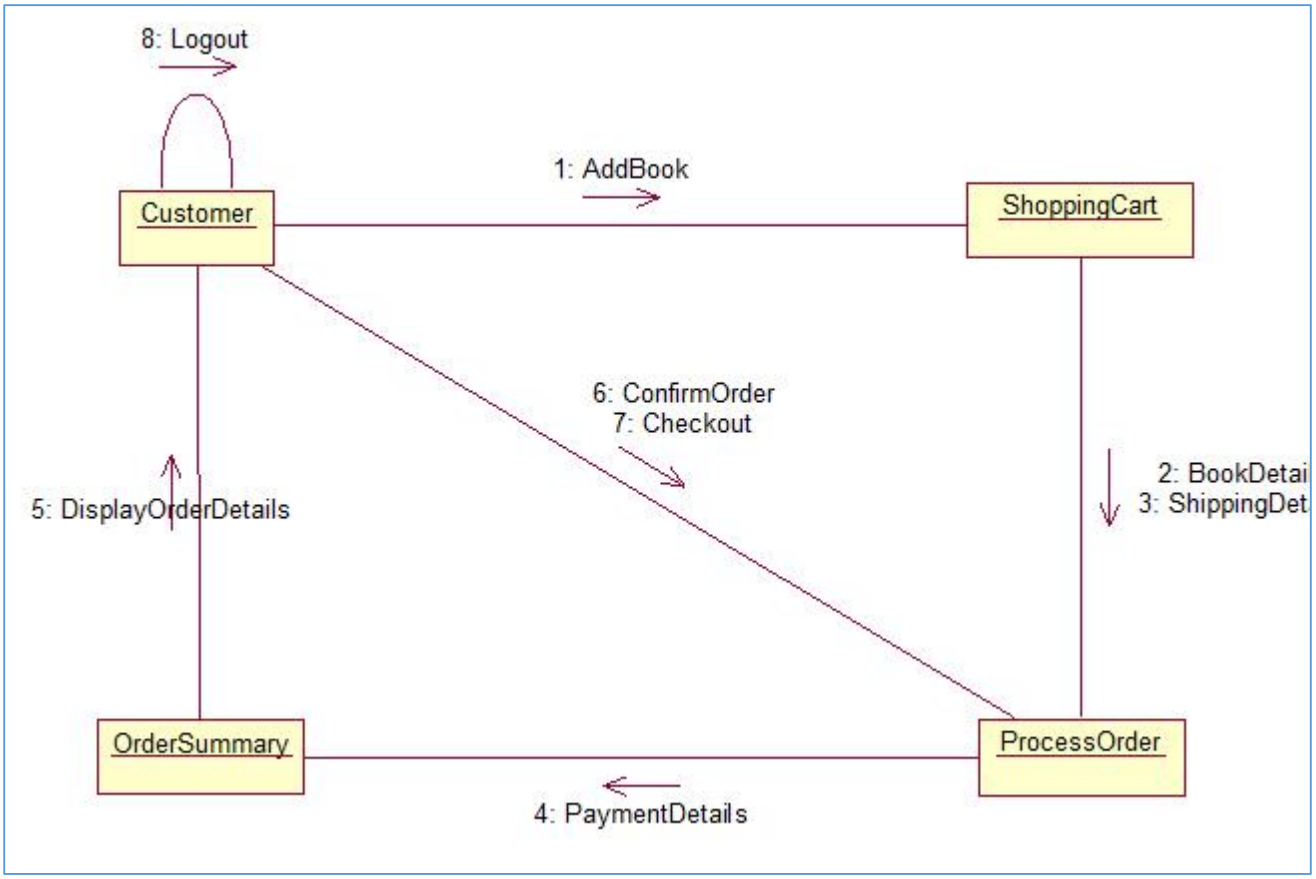
Class Diagram



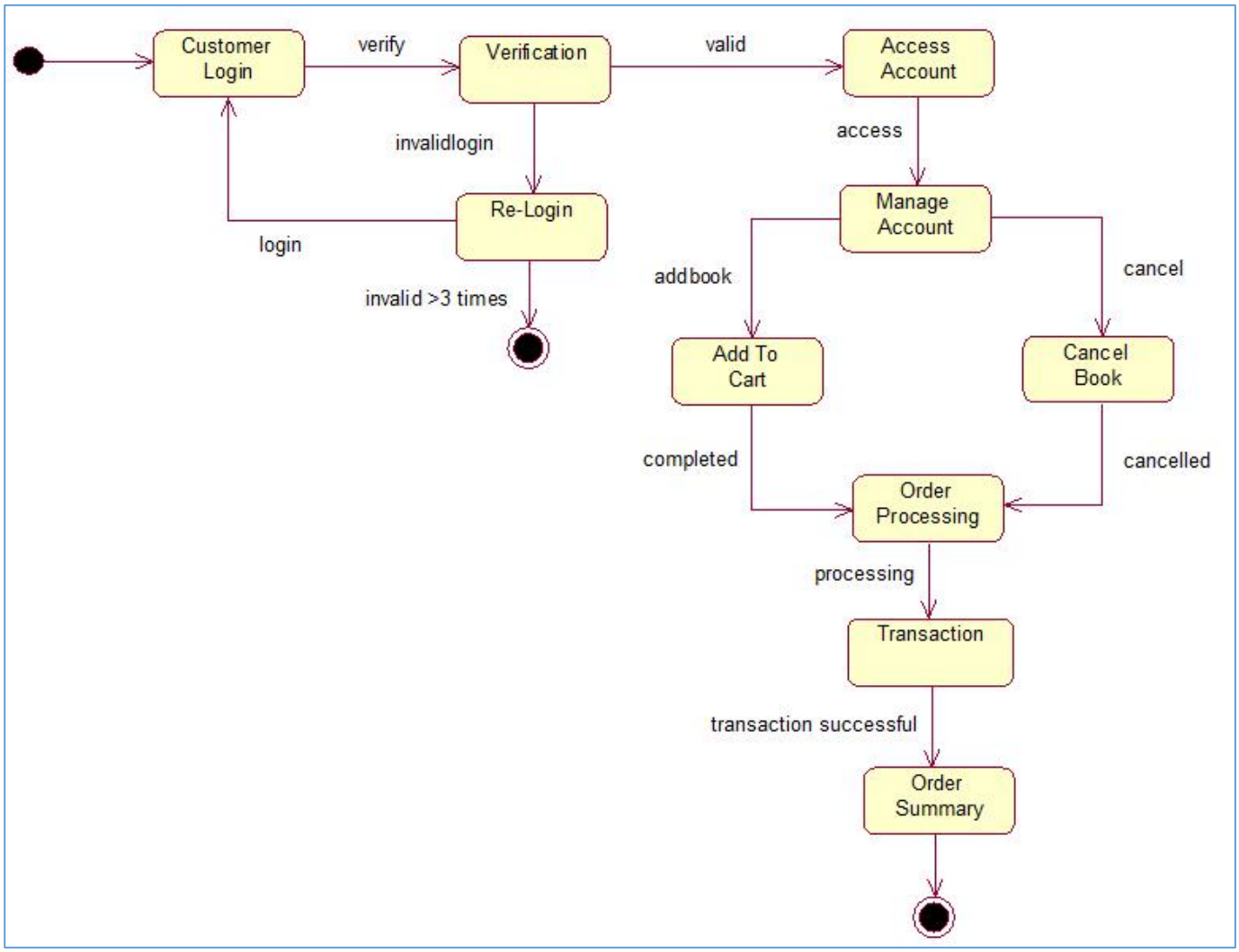
Sequence Diagram



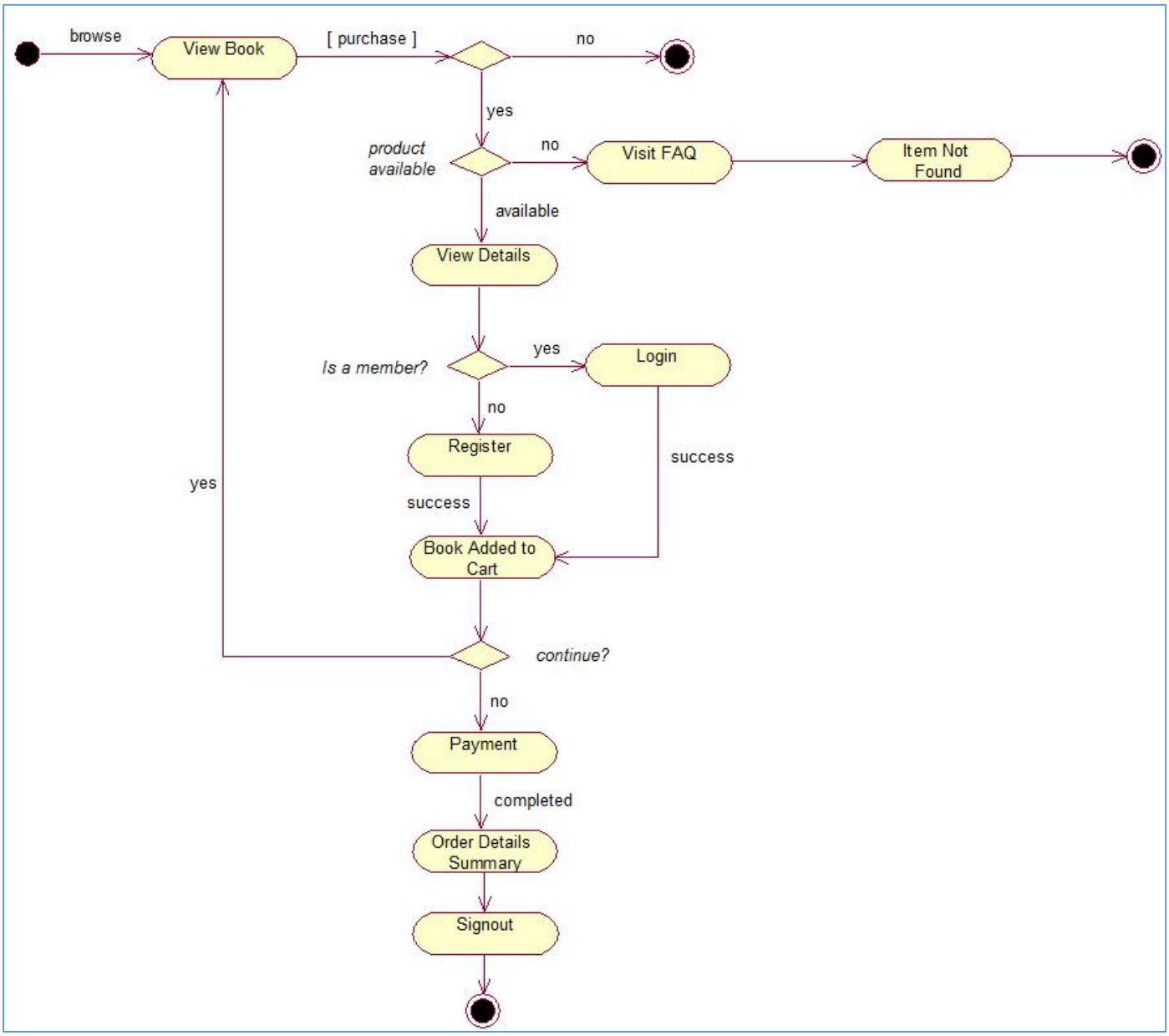
Collaboration Diagram



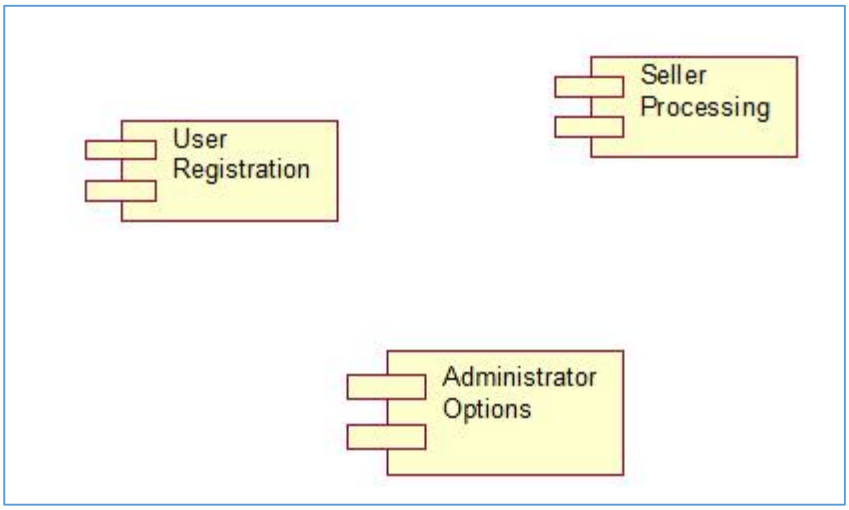
Statechart Diagram

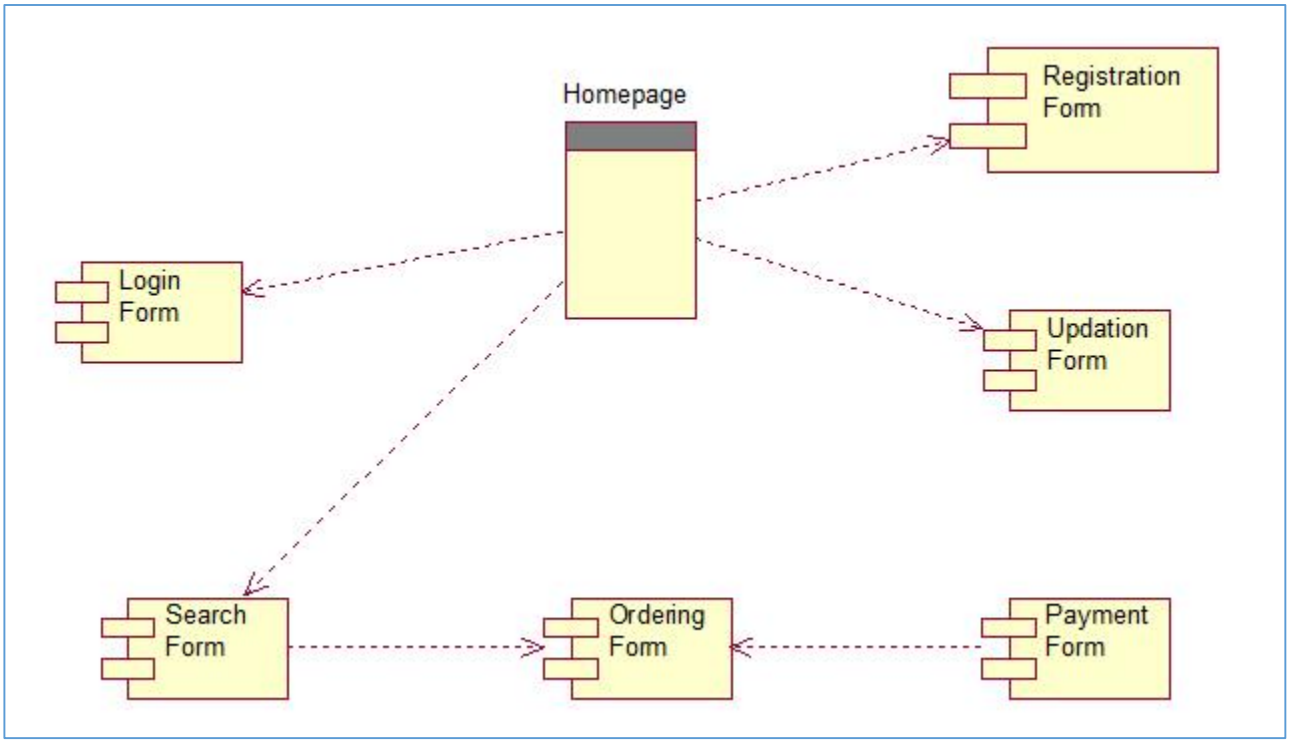


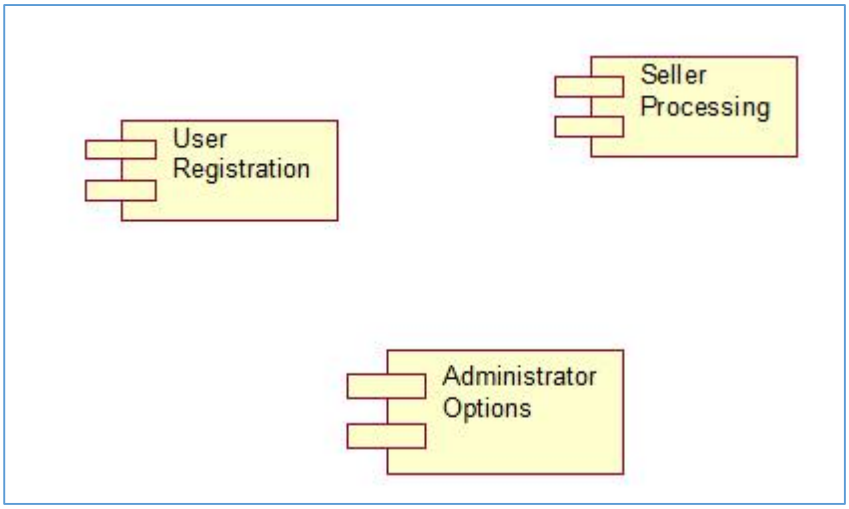
Activity Diagram

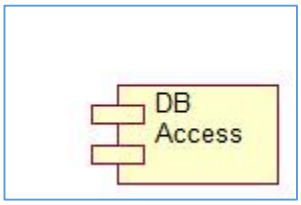
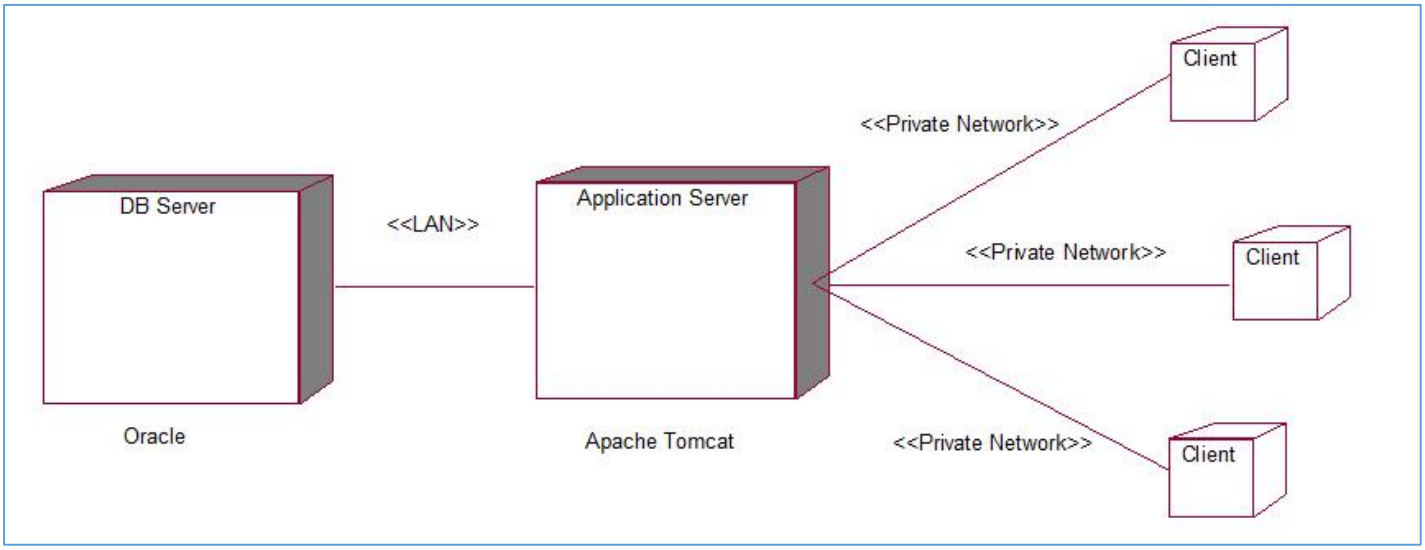


Component Diagrams









Deployment Diagram