OBJECT ORIENTED SOFTWARE ENGINEERING

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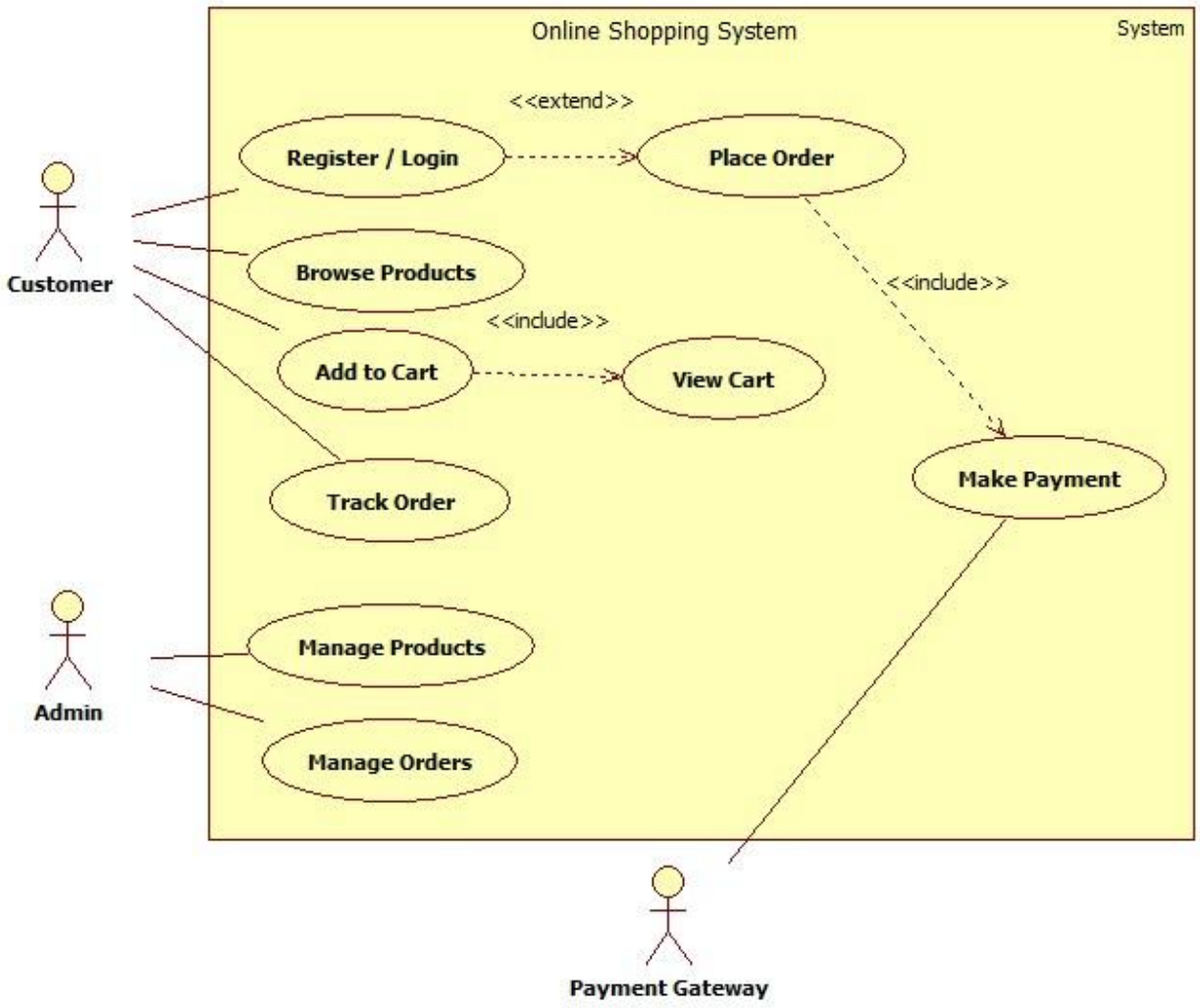
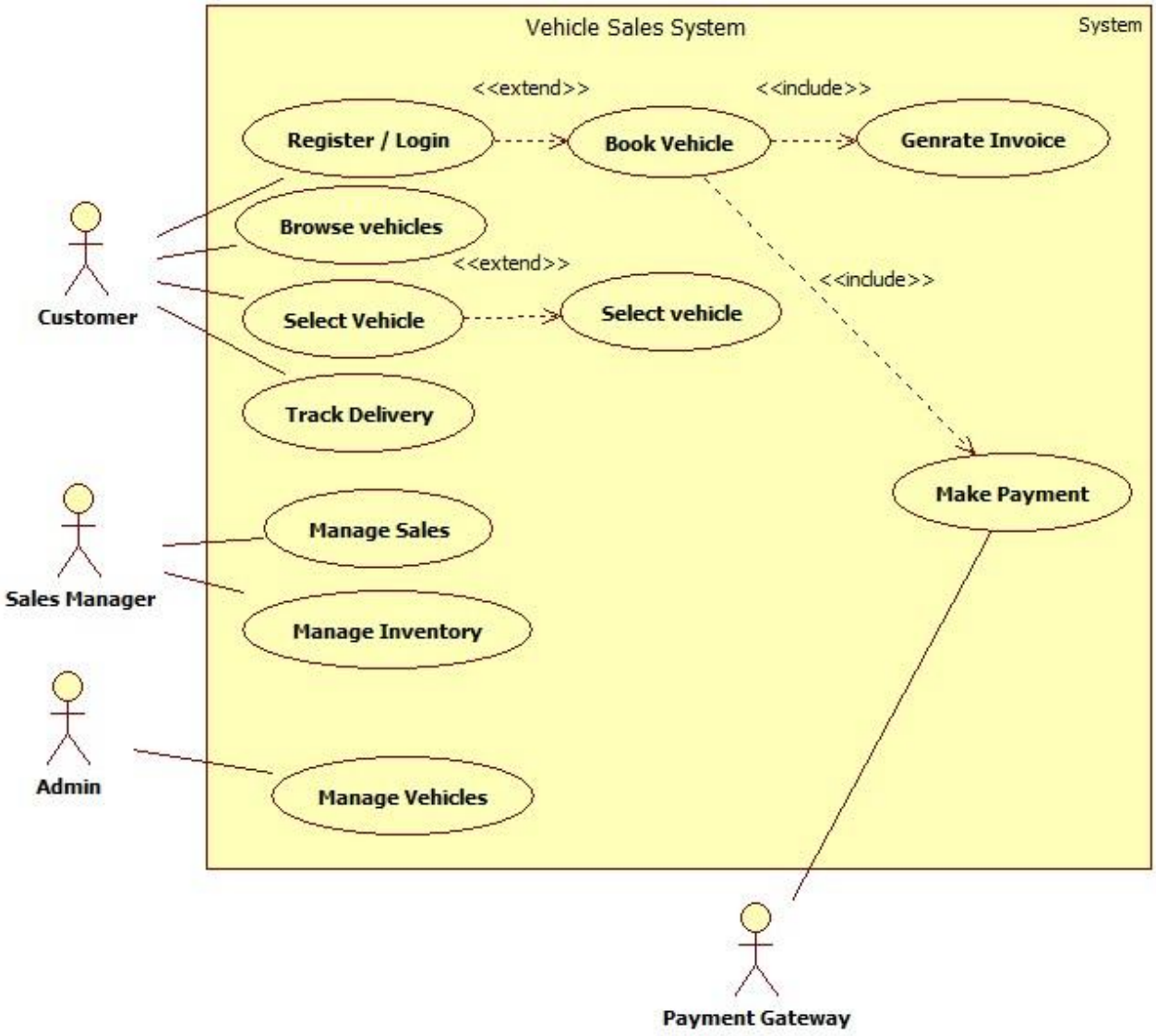
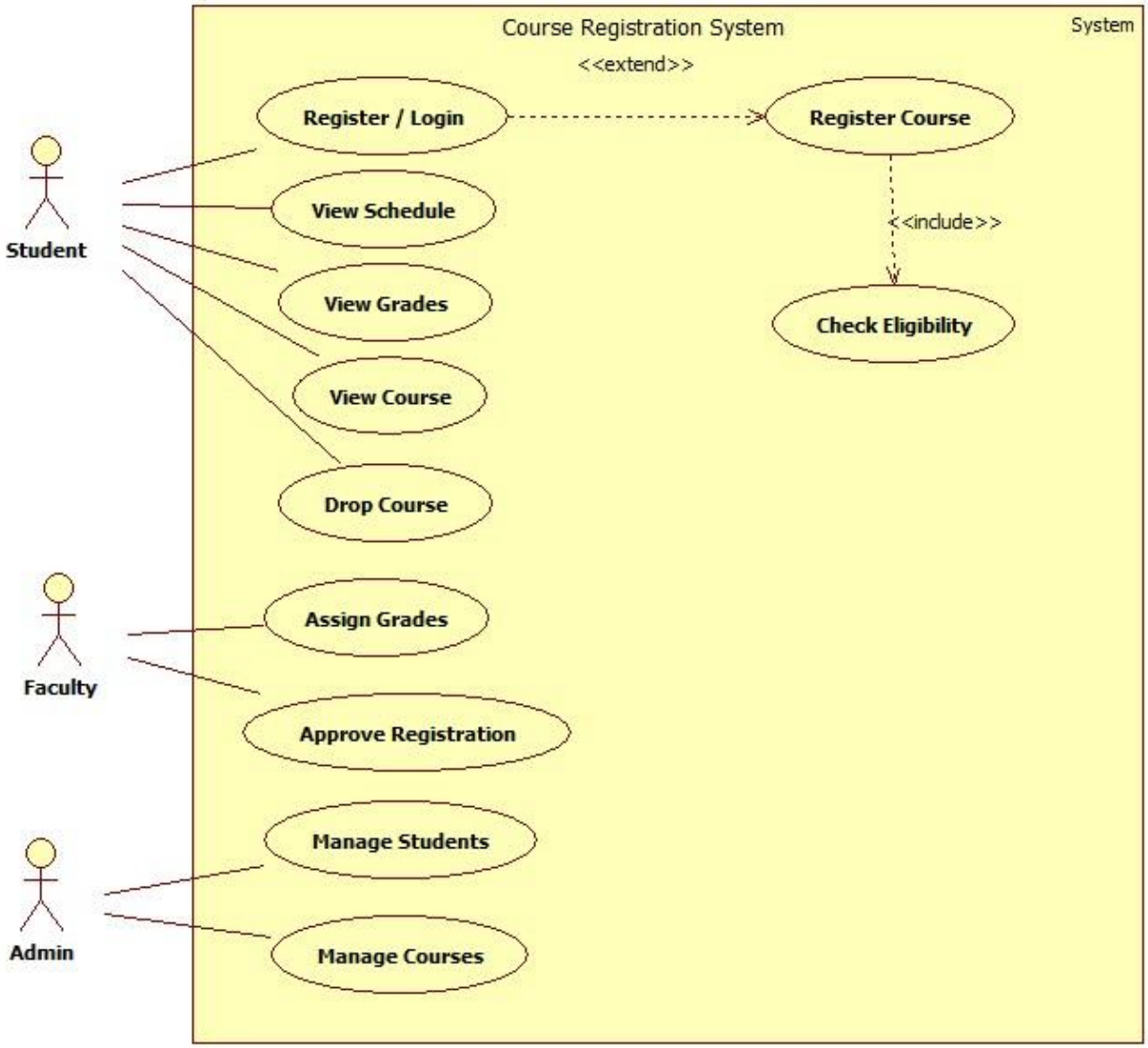
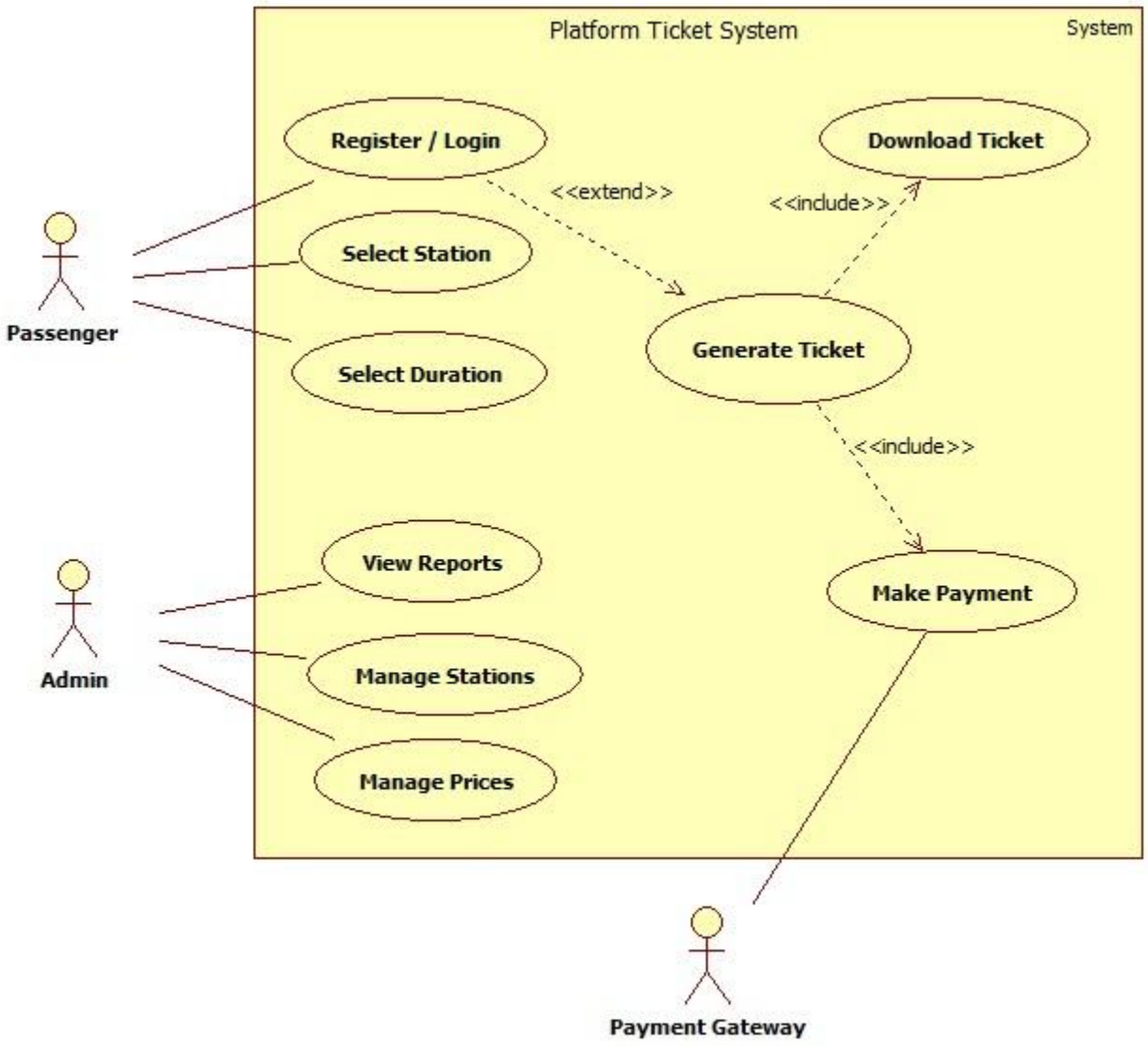
ROLL NO: PES1PG25CA366

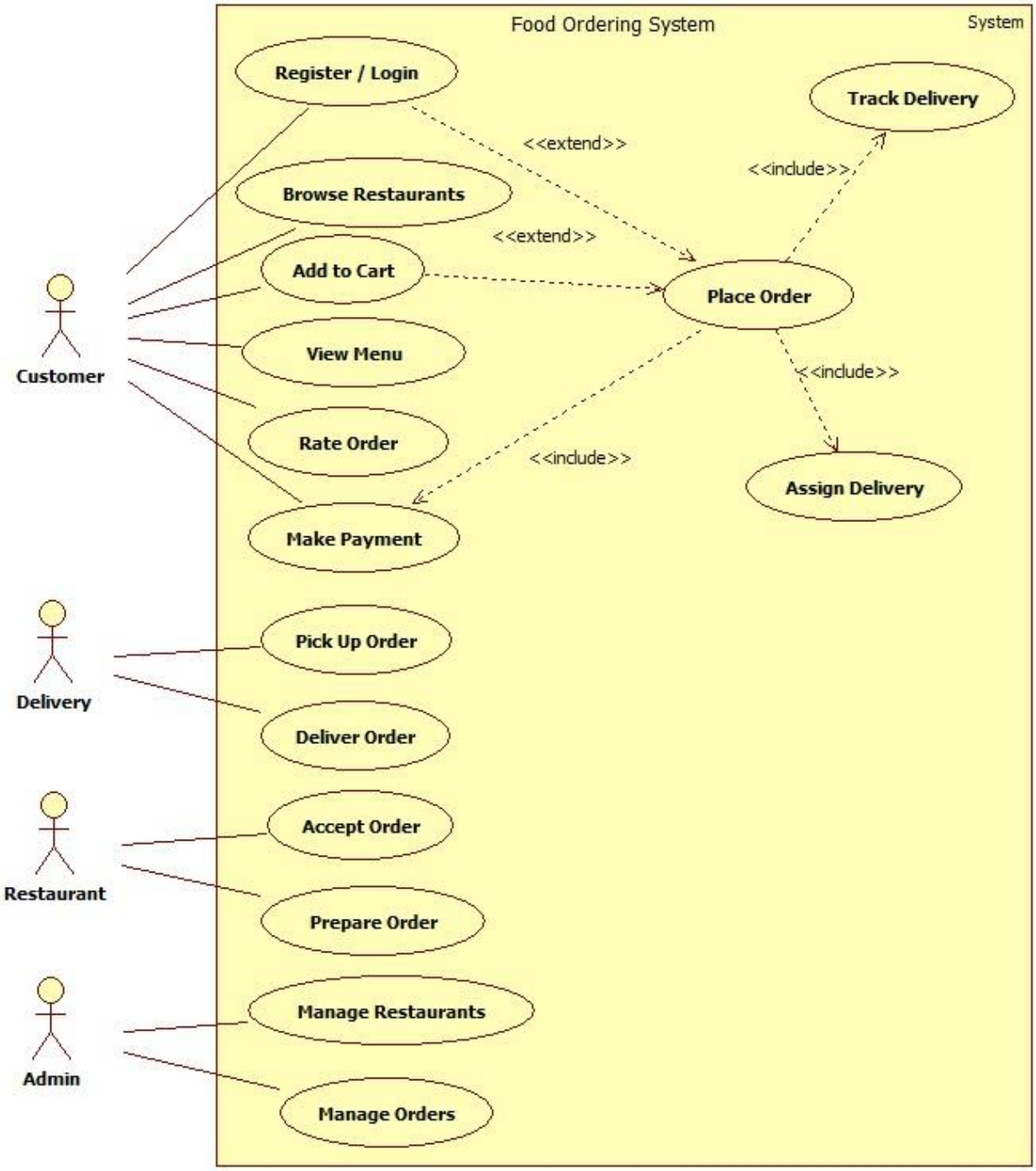
USE-CASE DIAGRAM

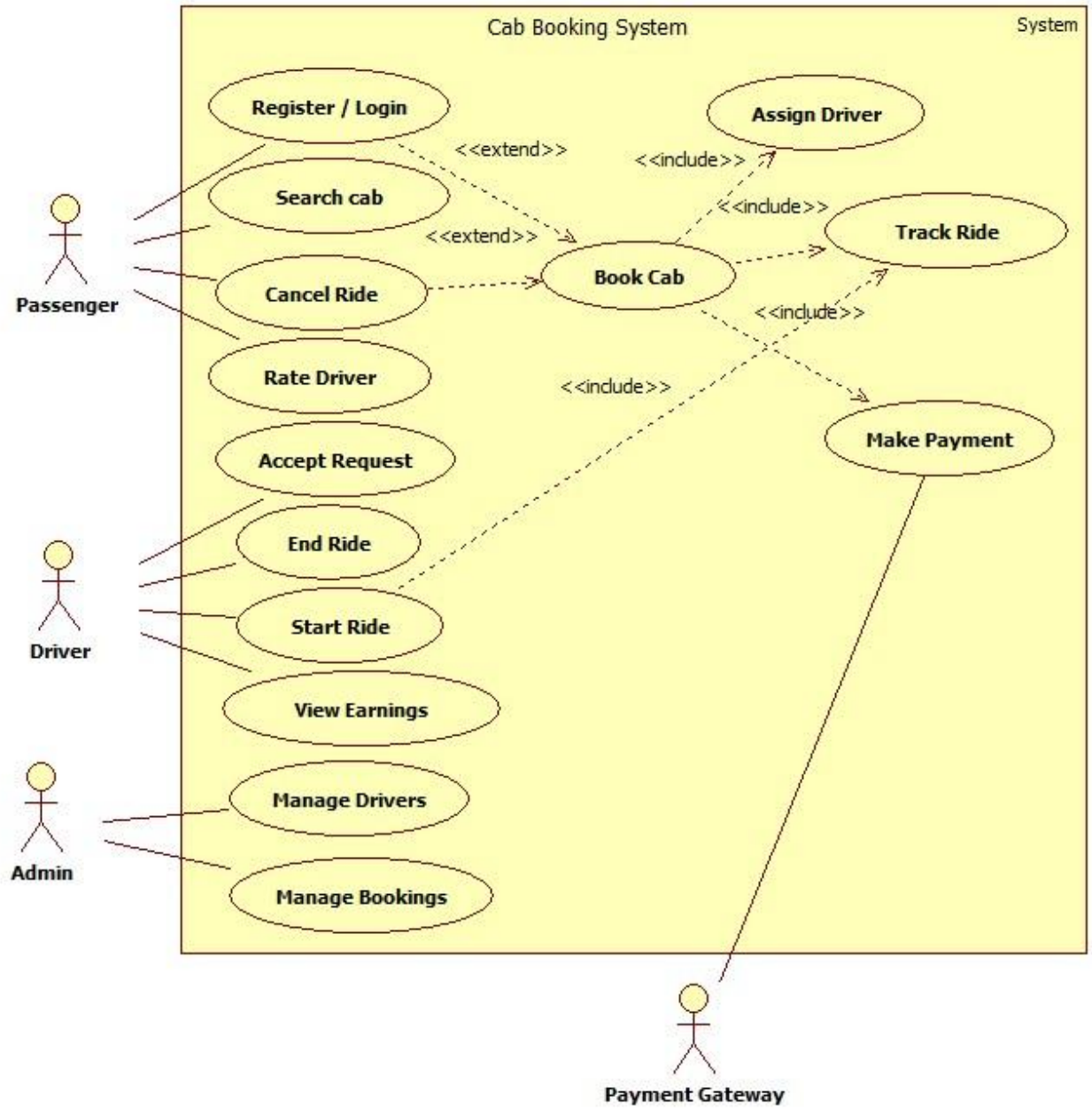


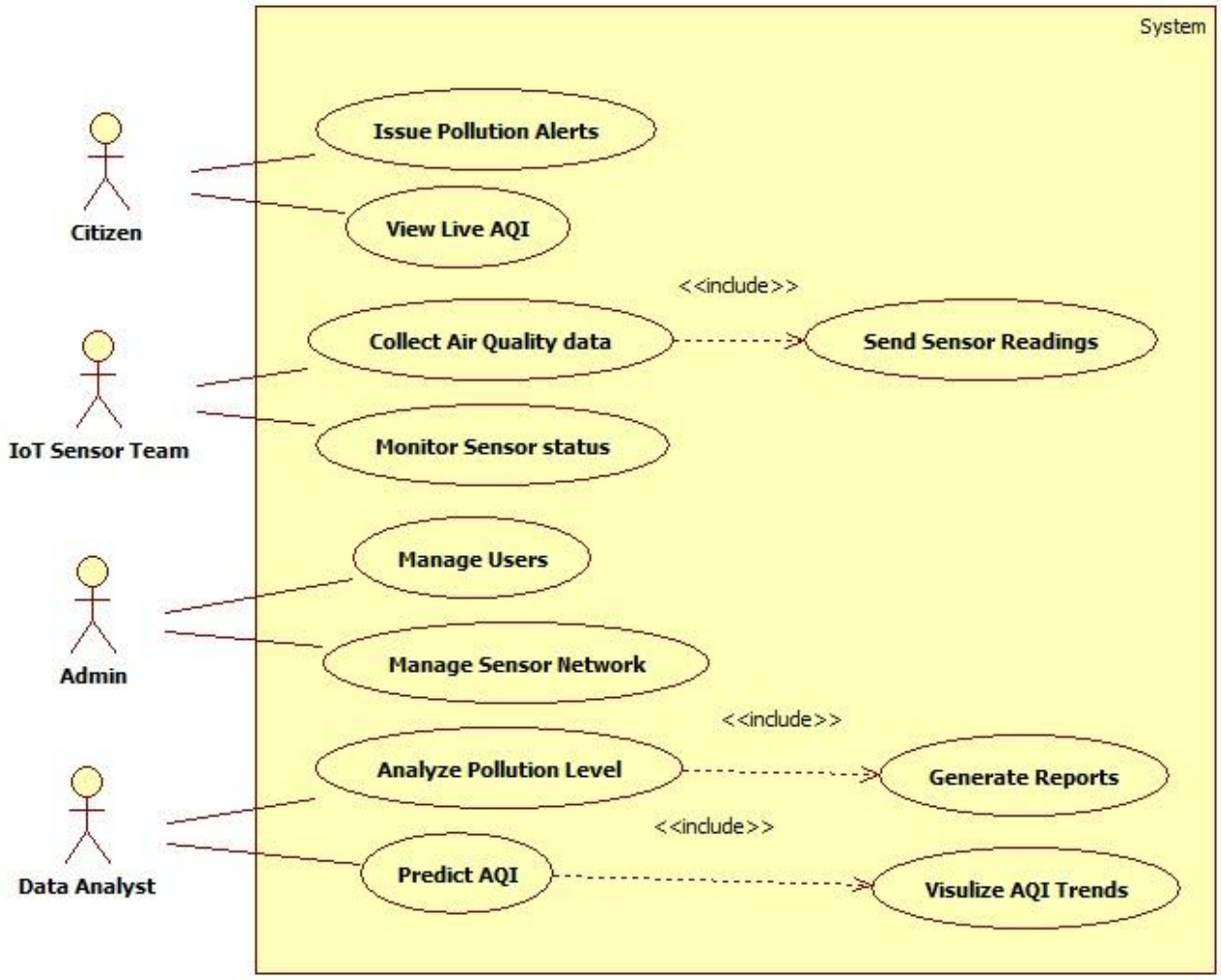

Vehicle Sales System
System
<<extend>>
<<include>>
Register / Login
Book Vehicle
Genrate Invoice
Browse vehicles
<<extend>>
<<include>>
Customer
Select Vehicle
Select vehicle
Track Delivery
Make Payment
Manage Sales
Sales Manager
Manage Inventory
Admin
Manage Vehicles
Payment Gateway


Course Registration System
System
<<extend>>
Register / Login
Register Course
<<include>>
Check Eligibility
Student
View Schedule
View Grades
View Course
Drop Course
Faculty
Assign Grades
Approve Registration
Admin
Manage Students
Manage Courses

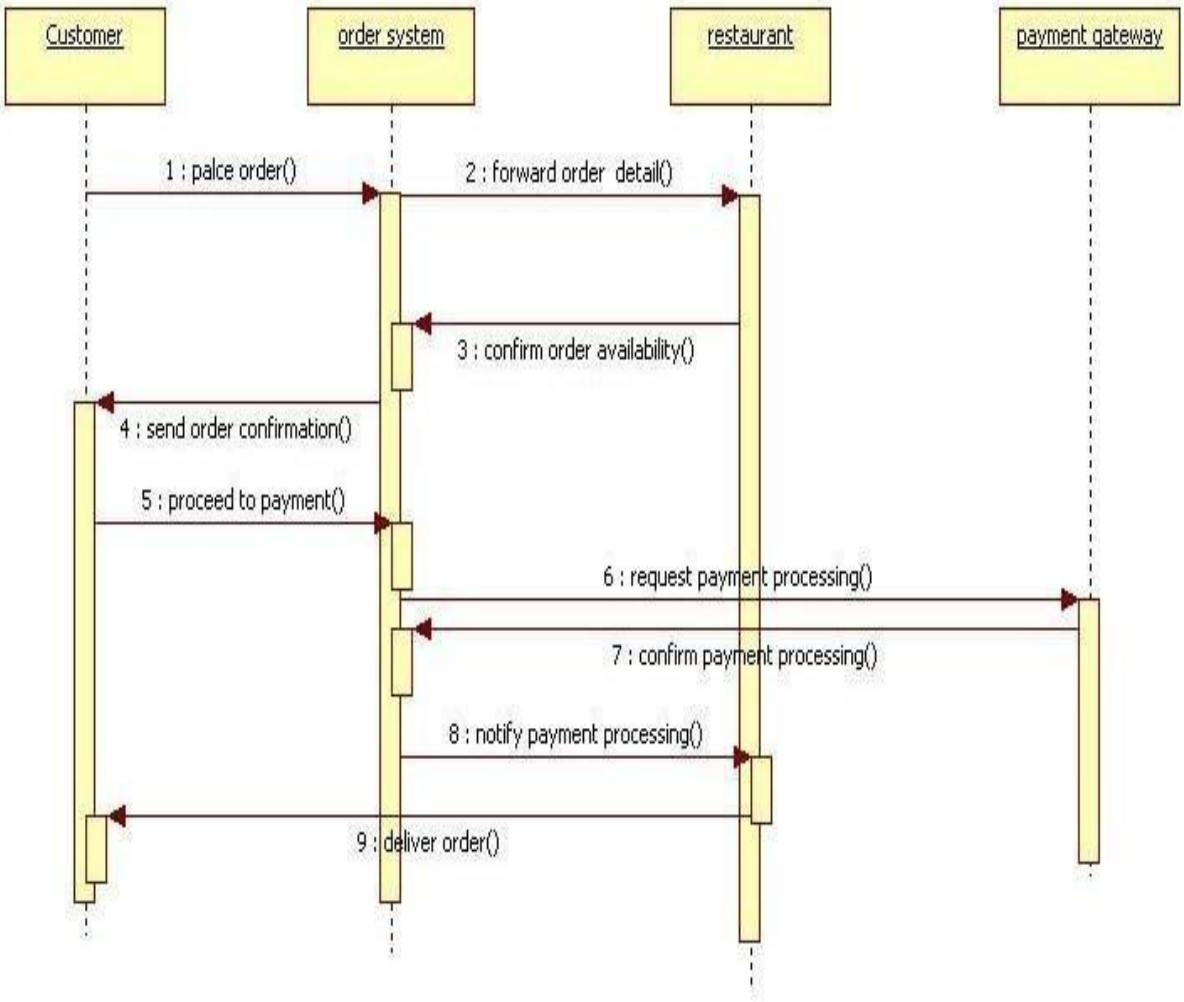

Platform Ticket System
System
Register / Login
Download Ticket
<<extend>>
<<include>>
Select Station
Passenger
Generate Ticket
Select Duration
<<include>>
View Reports
Make Payment
Admin
Manage Stations
Manage Prices
Payment Gateway

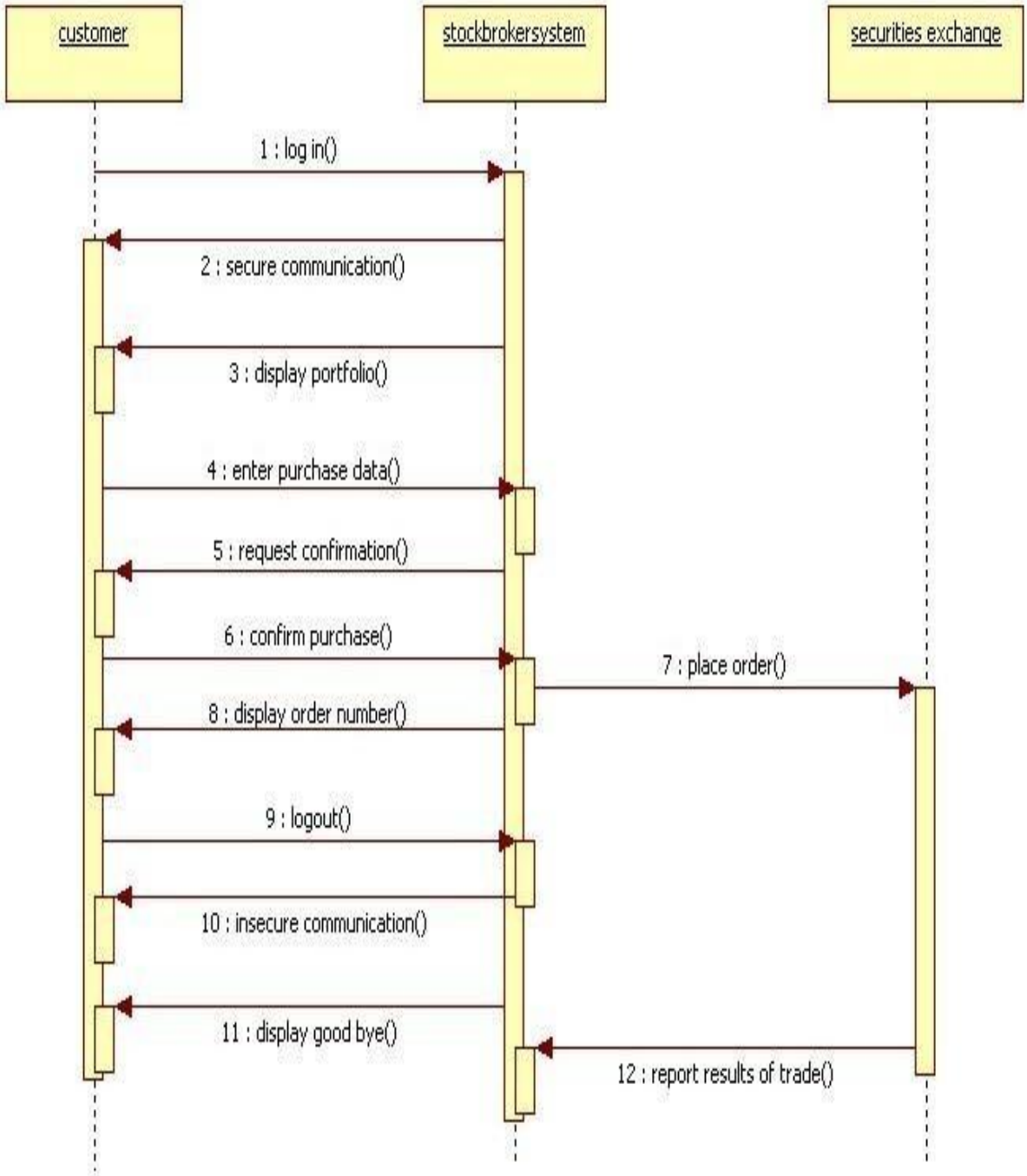

Food Ordering System
System
Register / Login
Track Delivery
<<extend>>
<<include>>
Browse Restaurants
<<extend>>
Add to Cart
Place Order
Customer
View Menu
<<include>>
Rate Order
<<include>>
Assign Delivery
Make Payment
Pick Up Order
Delivery
Deliver Order
Accept Order
Restaurant
Prepare Order
Manage Restaurants
Admin
Manage Orders

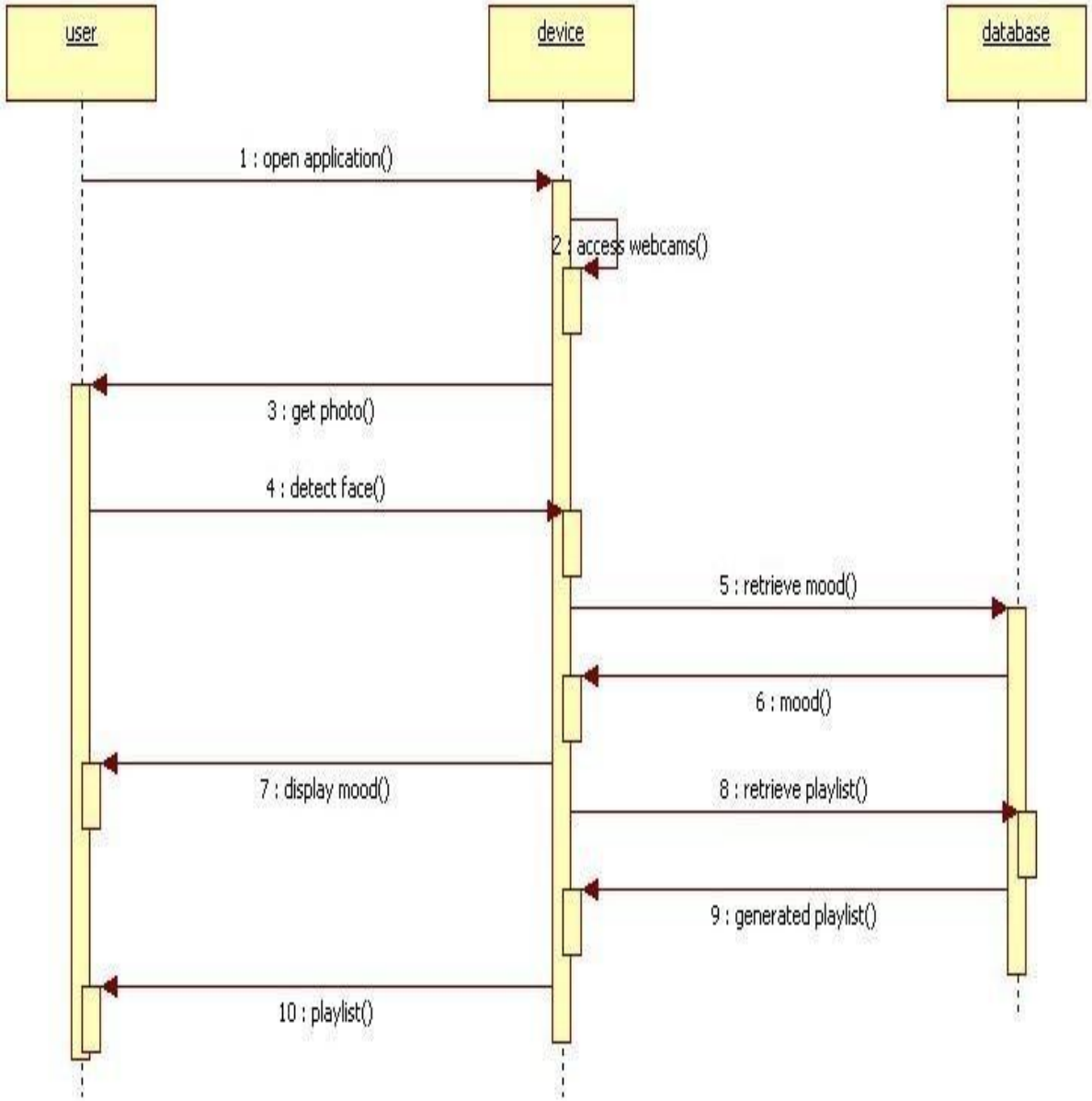

Cab Booking System
System
Register / Login
Search cab
Cancel Ride
Rate Driver
Accept Request
End Ride
Start Ride
View Earnings
Manage Drivers
Manage Bookings
Assign Driver
Book Cab
Track Ride
Make Payment
<<extend>>
<<extend>>
<<include>>
<<include>>
<<include>>
<<include>>
Passenger
Driver
Admin
Payment Gateway

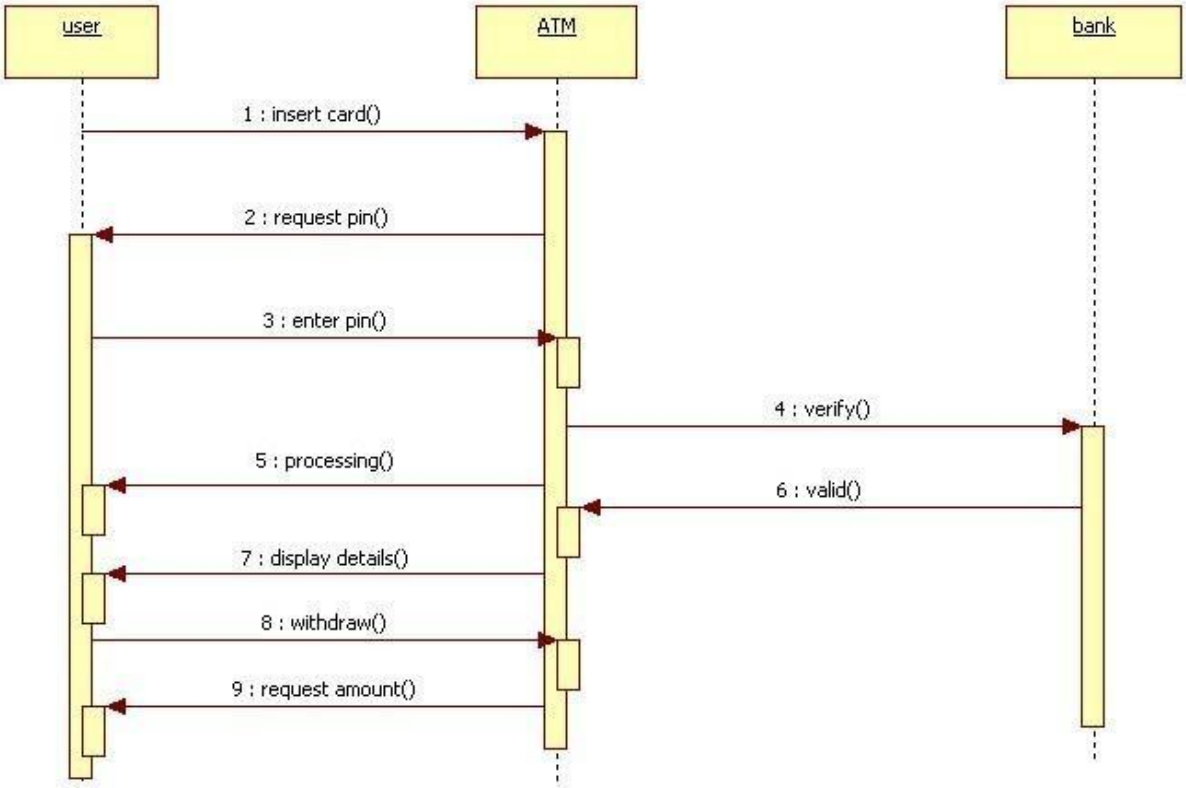

System
Citizen
Issue Pollution Alerts
View Live AQI
<<include>>
IoT Sensor Team
Collect Air Quality data
Send Sensor Readings
Monitor Sensor status
Admin
Manage Users
Manage Sensor Network
<<include>>
Data Analyst
Analyze Pollution Level
Generate Reports
<<include>>
Predict AQI
Visulize AQI Trends

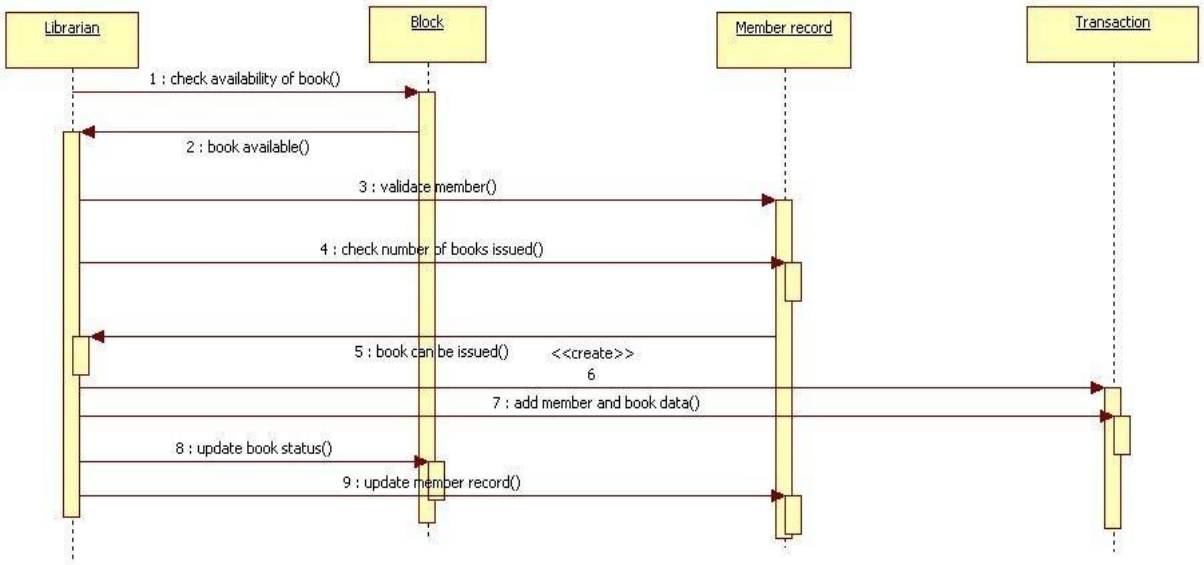
SEQUENCE DIAGRAM



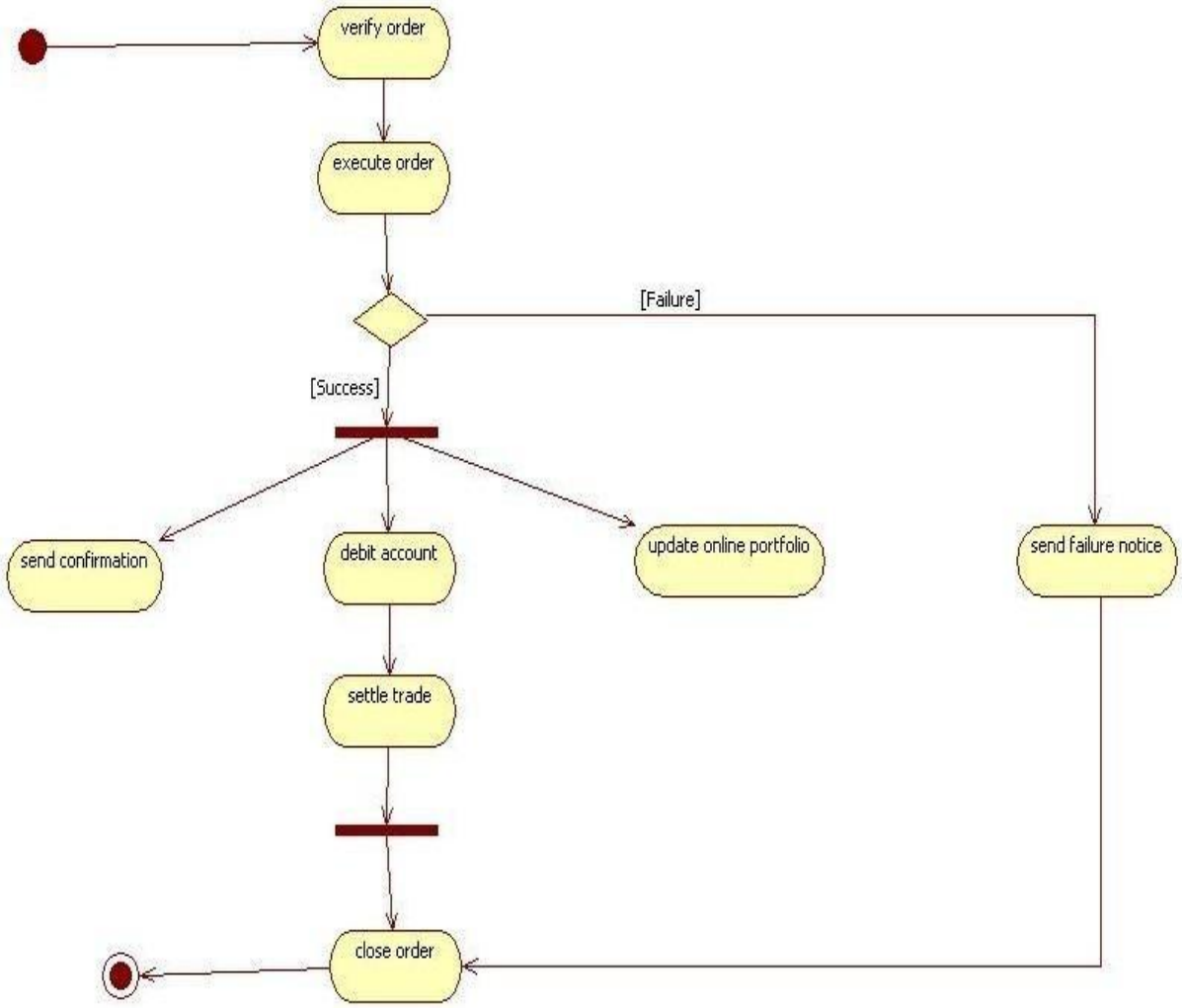

customer
stockbrokersystem
securities exchange
1 : log in()
2 : secure communication()
3 : display portfolio()
4 : enter purchase data()
5 : request confirmation()
6 : confirm purchase()
7 : place order()
8 : display order number()
9 : logout()
10 : insecure communication()
11 : display good bye()
12 : report results of trade()

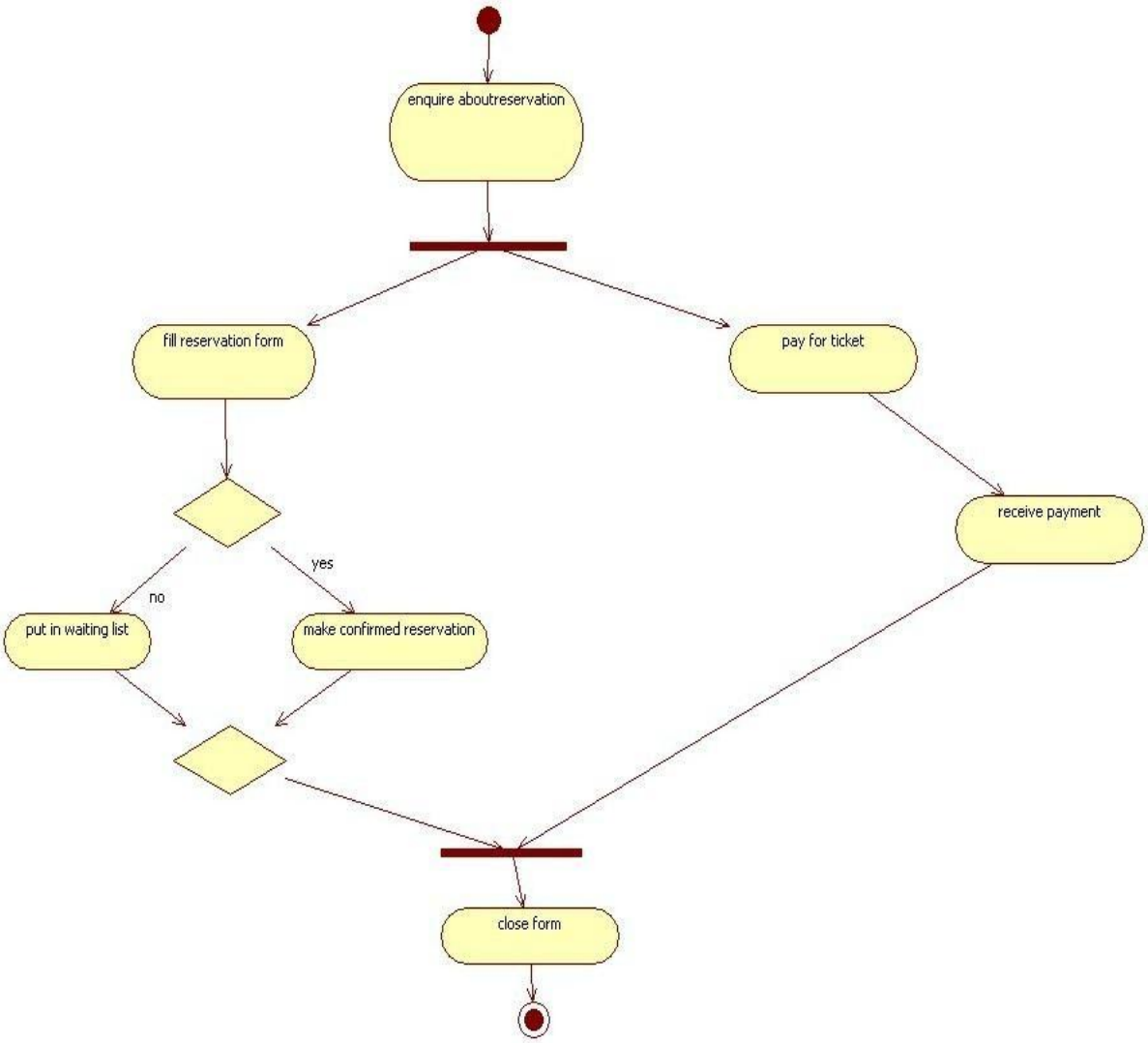

user
device
database
1 : open application()
2 : access webcams()
3 : get photo()
4 : detect face()
5 : retrieve mood()
6 : mood()
7 : display mood()
8 : retrieve playlist()
9 : generated playlist()
10 : playlist()

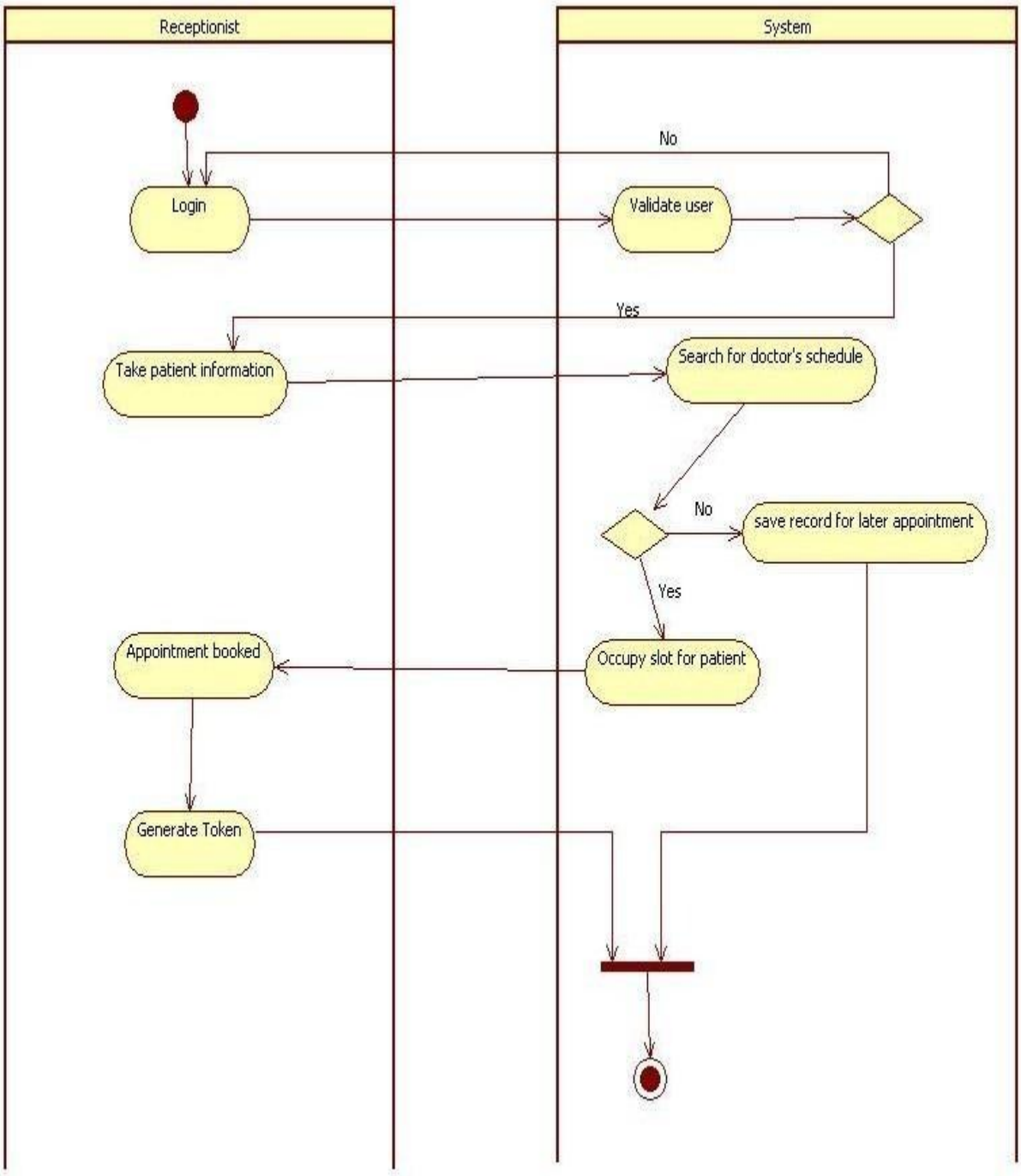

user
ATM
bank
1 : insert card()
2 : request pin()
3 : enter pin()
4 : verify()
5 : processing()
6 : valid()
7 : display details()
8 : withdraw()
9 : request amount()

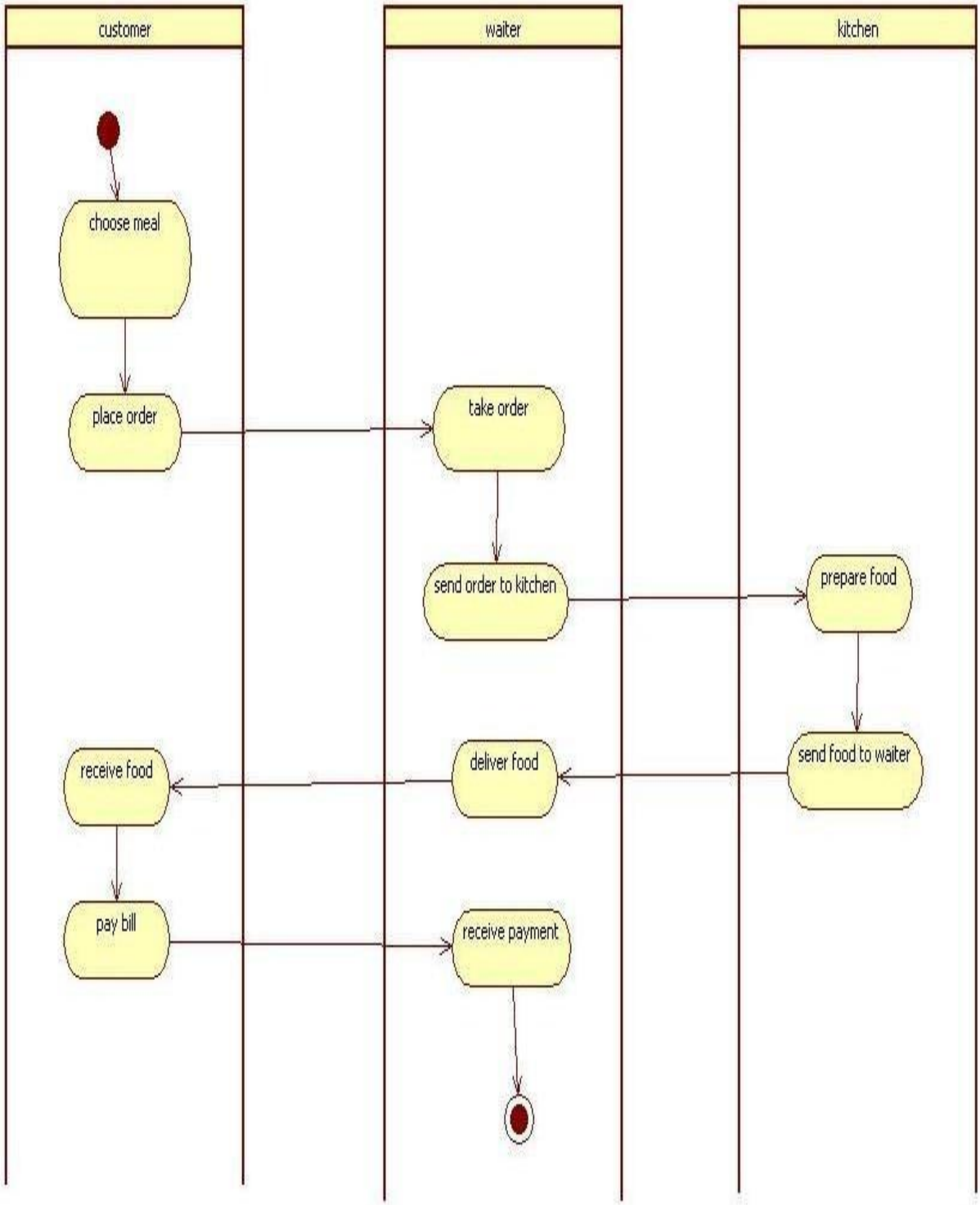

Librarian
Block
Member record
Transaction
1 : check availability of book()
2 : book available()
3 : validate member()
4 : check number of books issued()
5 : book can be issued()
<<create>>
6
7 : add member and book data()
8 : update book status()
9 : update member record()

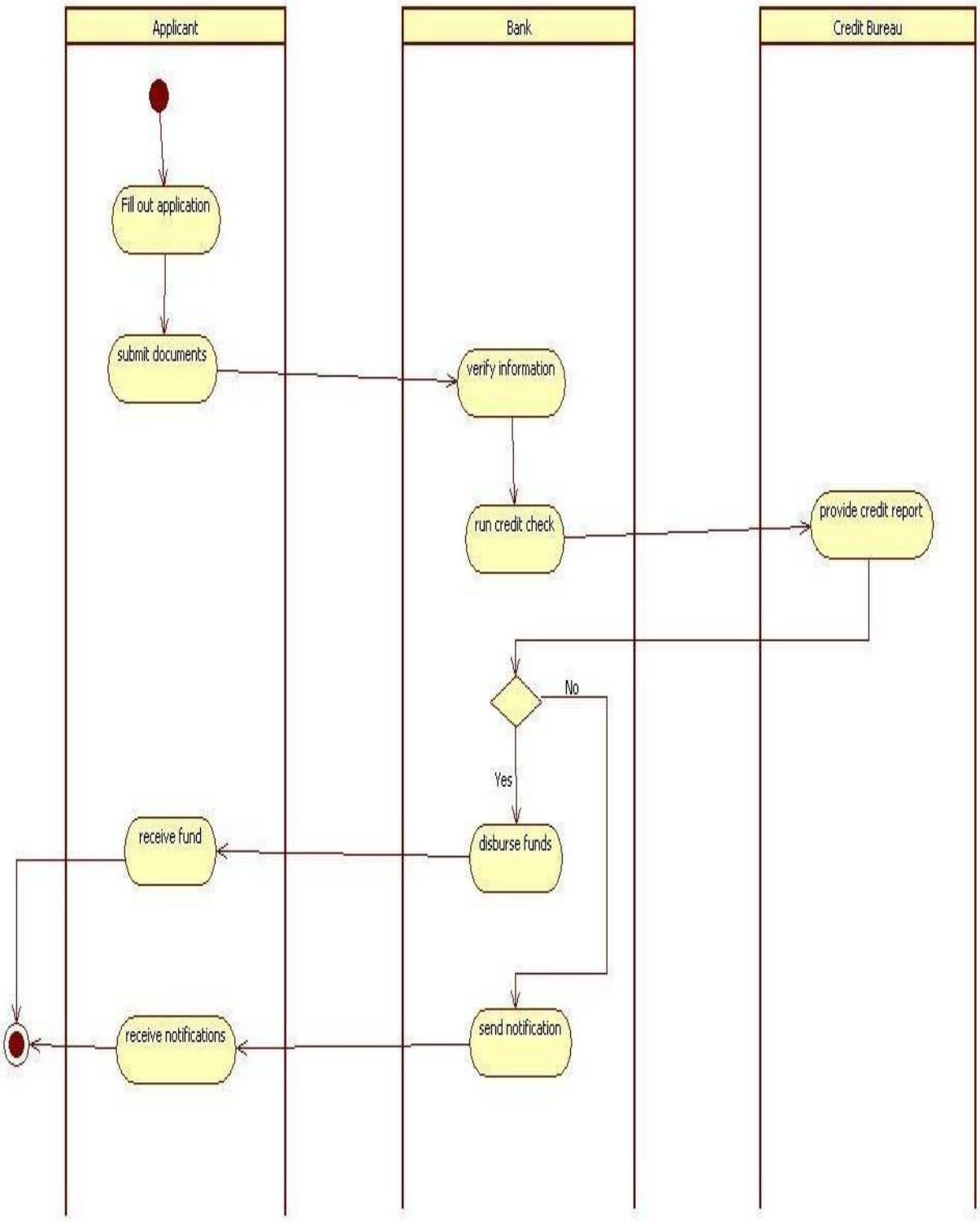
ACTIVITY DIAGRAM

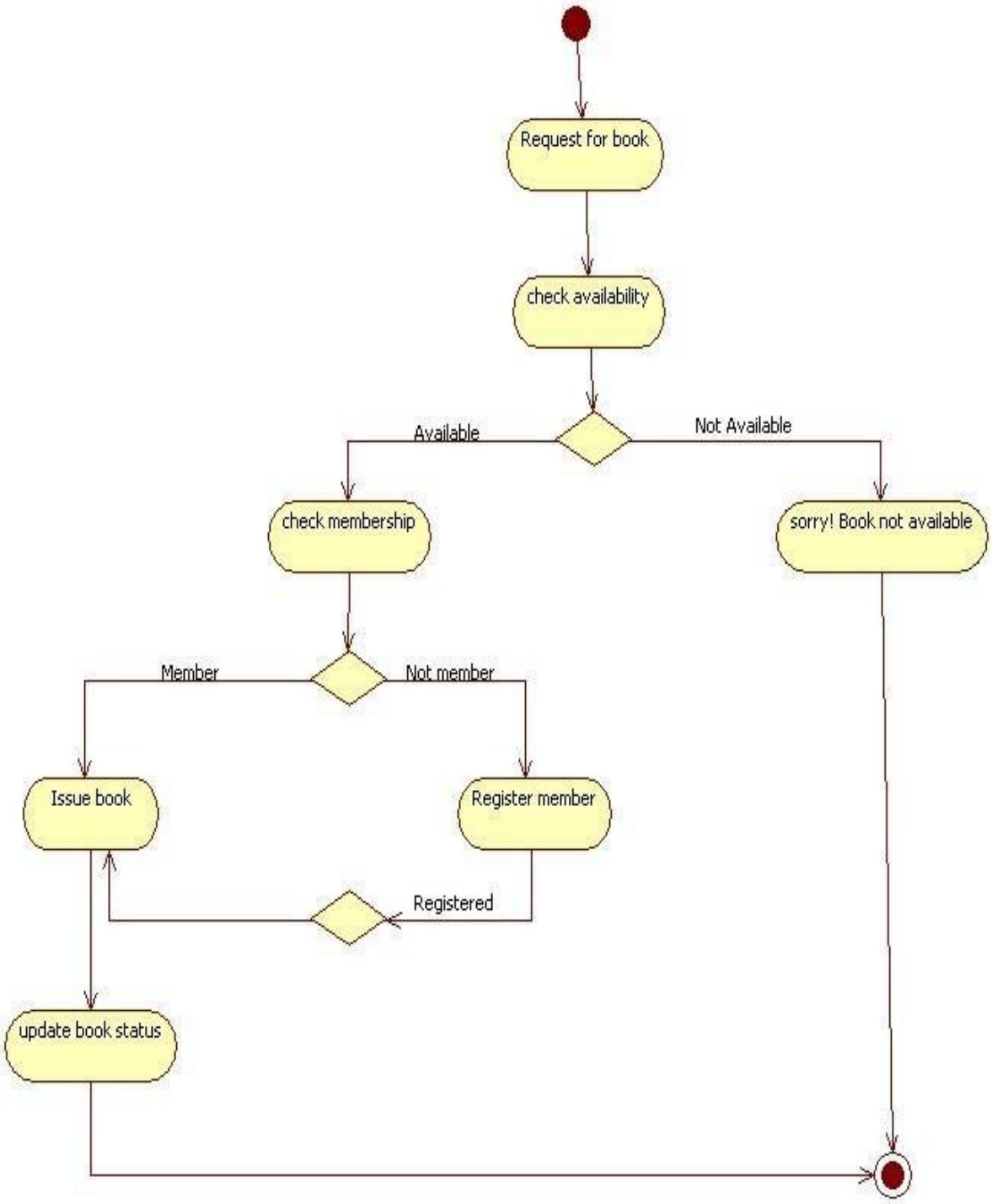



enquire aboutreservation
fill reservation form
pay for ticket
receive payment
yes
no
put in waiting list
make confirmed reservation
close form

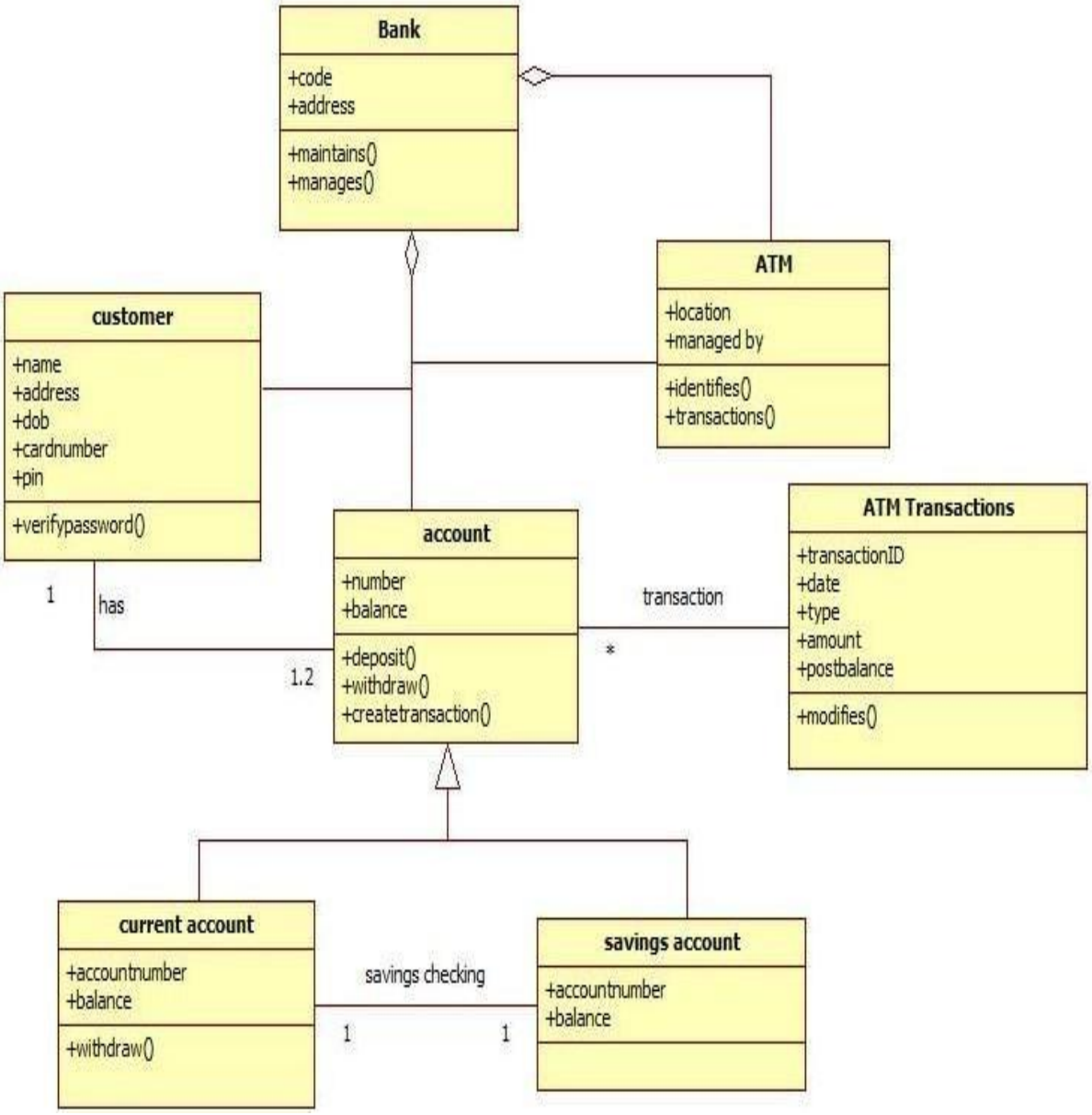

Receptionist
System
No
Login
Validate user
Yes
Take patient information
Search for doctor's schedule
No
save record for later appointment
Yes
Appointment booked
Occupy slot for patient
Generate Token

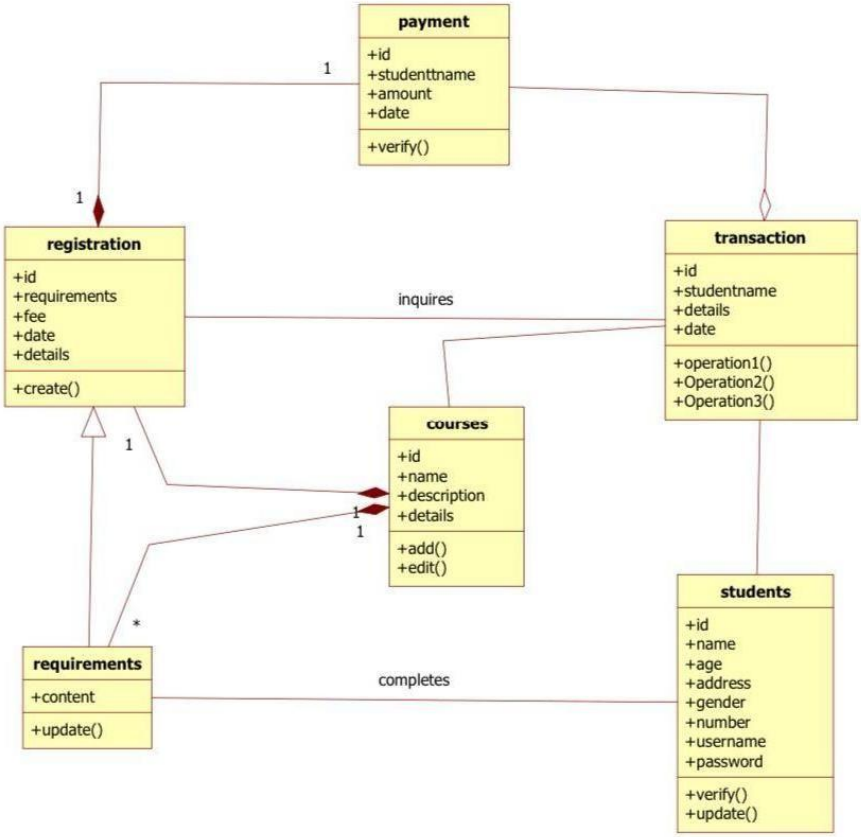

customer
waiter
kitchen
choose meal
place order
take order
send order to kitchen
prepare food
send food to waiter
deliver food
receive food
pay bill
receive payment

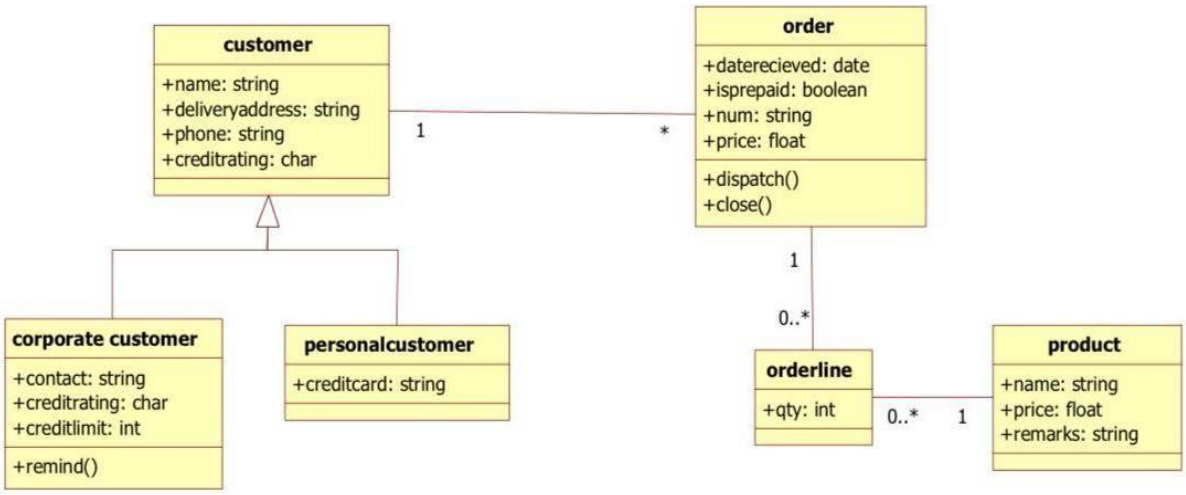

Applicant
Bank
Credit Bureau
Fill out application
submit documents
verify information
run credit check
provide credit report
No
Yes
receive fund
disburse funds
send notification
receive notifications

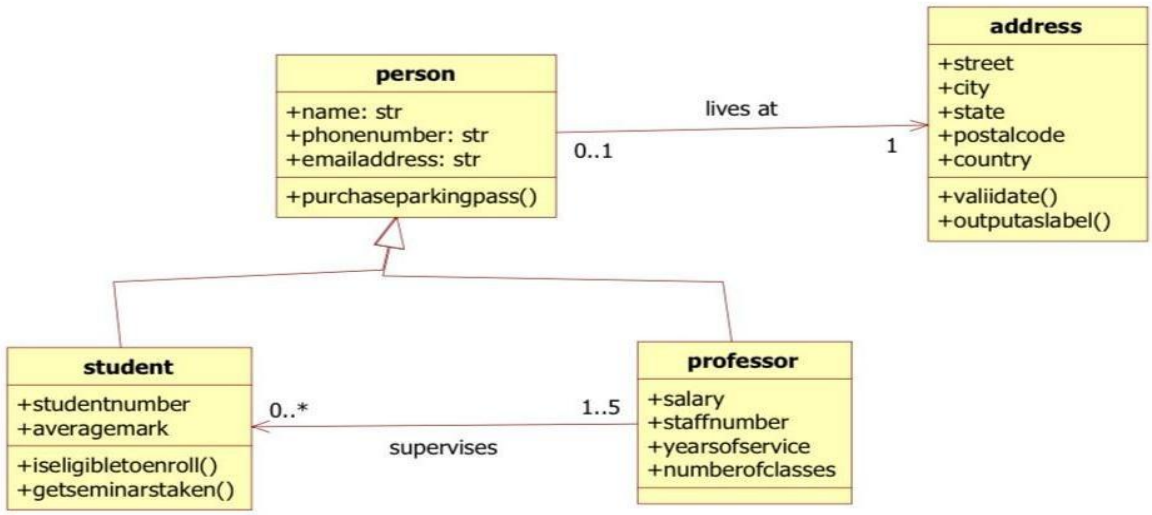

Request for book
check availability
Available
Not Available
check membership
sorry! Book not available
Member
Not member
Issue book
Register member
Registered
update book status

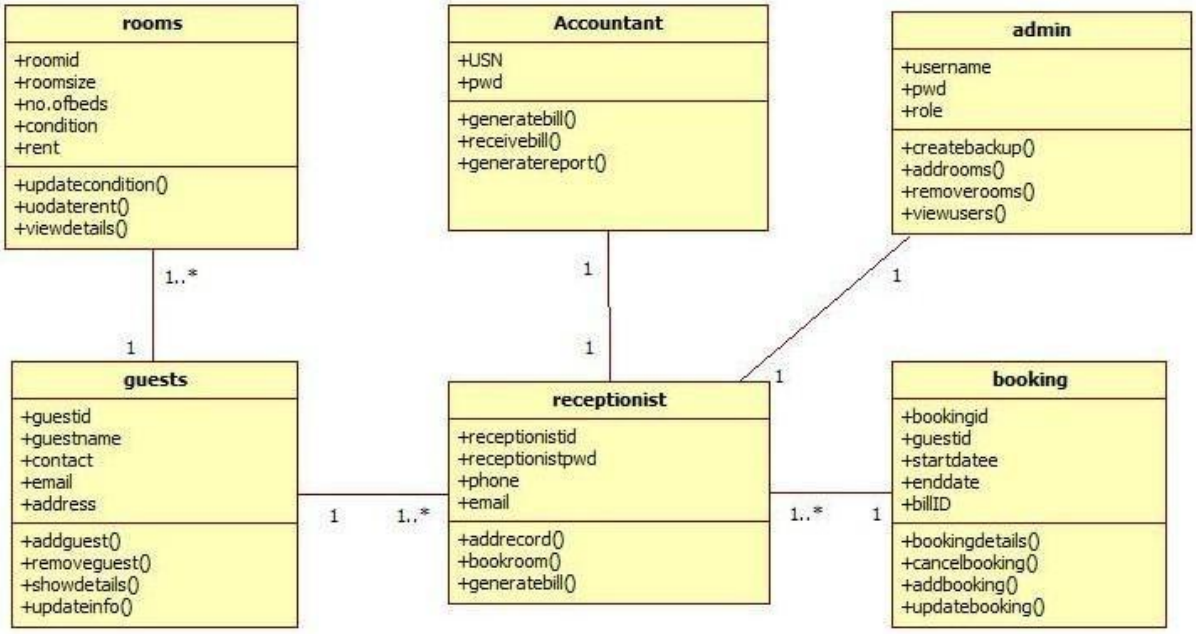
CLASS DIAGRAM

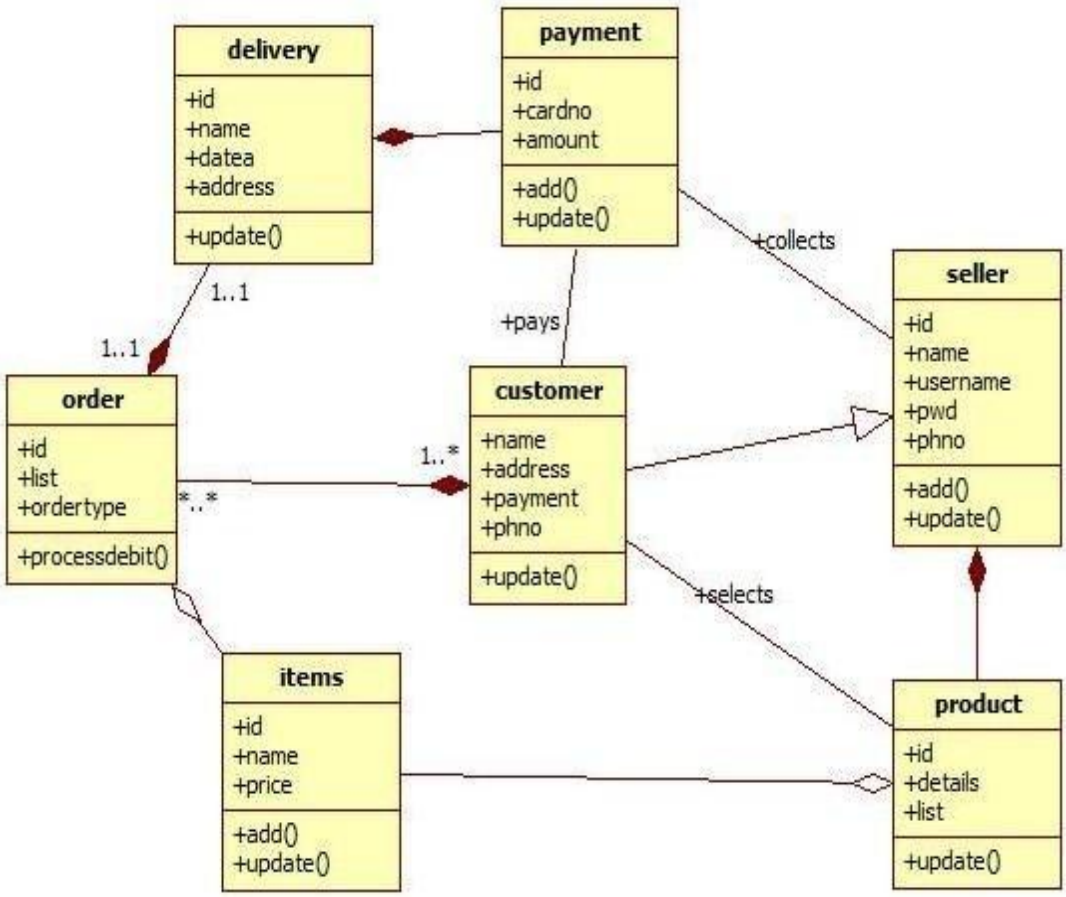



payment
+id
+studenttname
+amount
+date
+verify()
1
1
registration
+id
+requirements
+fee
+date
+details
+create()
inquires
transaction
+id
+studentname
+details
+date
+operation1()
+Operation2()
+Operation3()
courses
+id
+name
+description
+details
+add()
+edit()
1
1
1
*
requirements
+content
+update()
completes
students
+id
+name
+age
+address
+gender
+number
+username
+password
+verify()
+update()


customer
+name: string
+deliveryaddress: string
+phone: string
+creditrating: char
order
+daterecieved: date
+isprepaid: boolean
+num: string
+price: float
+dispatch()
+close()
1
*
1
0..*
corporate customer
+contact: string
+creditrating: char
+creditlimit: int
+remind()
personalcustomer
+creditcard: string
orderline
+qty: int
0..*
1
product
+name: string
+price: float
+remarks: string


person
+name: str
+phonenumber: str
+emailaddress: str
+purchaseparkingpass()
lives at
0..1
1
address
+street
+city
+state
+postalcode
+country
+valiidate()
+outputaslabel()
student
+studentnumber
+averagemark
+iseligibletoenroll()
+getseminarstaken()
0..*
supervises
1..5
professor
+salary
+staffnumber
+yearsofservice
+numberofclasses


rooms
+roomid
+roomsize
+no.ofbeds
+condition
+rent
+updatecondition()
+uodaterent()
+viewdetails()
Accountant
+USN
+pwd
+generatebill()
+receivebill()
+generatereport()
admin
+username
+pwd
+role
+createbackup()
+addrooms()
+removerooms()
+viewusers()
guests
+guestid
+guestname
+contact
+email
+address
+addguest()
+removeguest()
+showdetails()
+updateinfo()
receptionist
+receptionistid
+receptionistpwd
+phone
+email
+addrecord()
+bookroom()
+generatebill()
booking
+bookingid
+guestid
+startdatee
+enddate
+billID
+bookingdetails()
+cancelbooking()
+addbooking()
+updatebooking()
1..*
1
1
1
1
1
1
1..*
1..*
1


delivery
+id
+name
+datea
+address
+update()
payment
+id
+cardno
+amount
+add()
+update()
seller
+id
+name
+username
+pwd
+phno
+add()
+update()
order
+id
+list
+ordertype
+processdebit()
customer
+name
+address
+payment
+phno
+update()
items
+id
+name
+price
+add()
+update()
product
+id
+details
+list
+update()
1..1
1..1
+pays
+collects
1..*
..
+selects