N R SAMHITHA RAO
PES2UG19CS243
Team number 2
Airline booking system
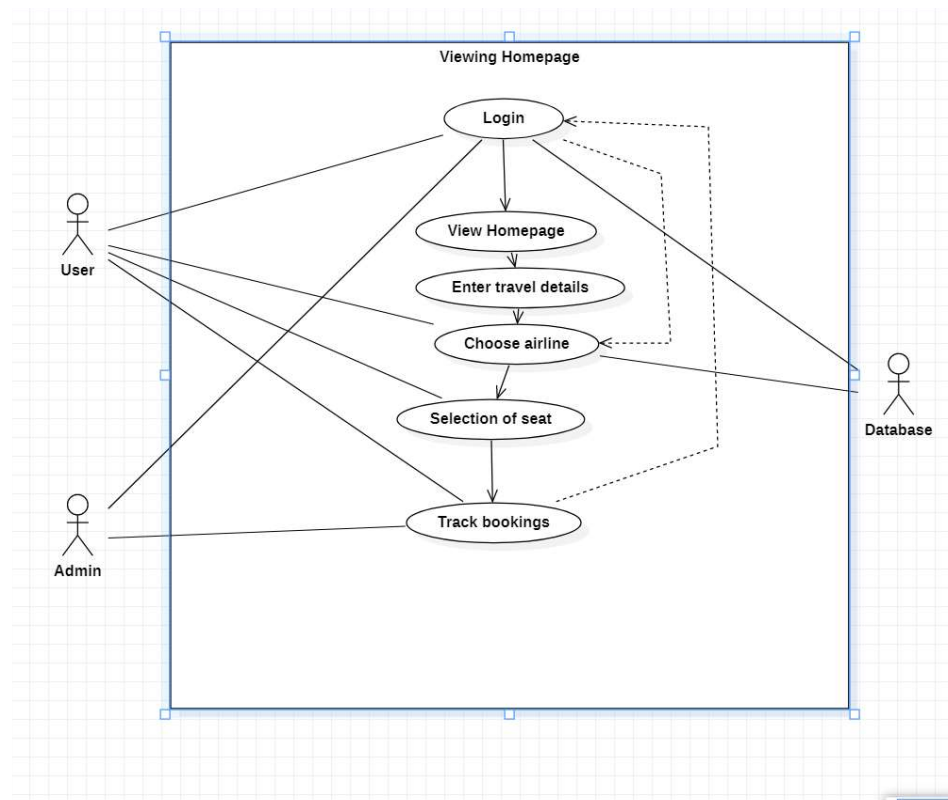
UE19CS353
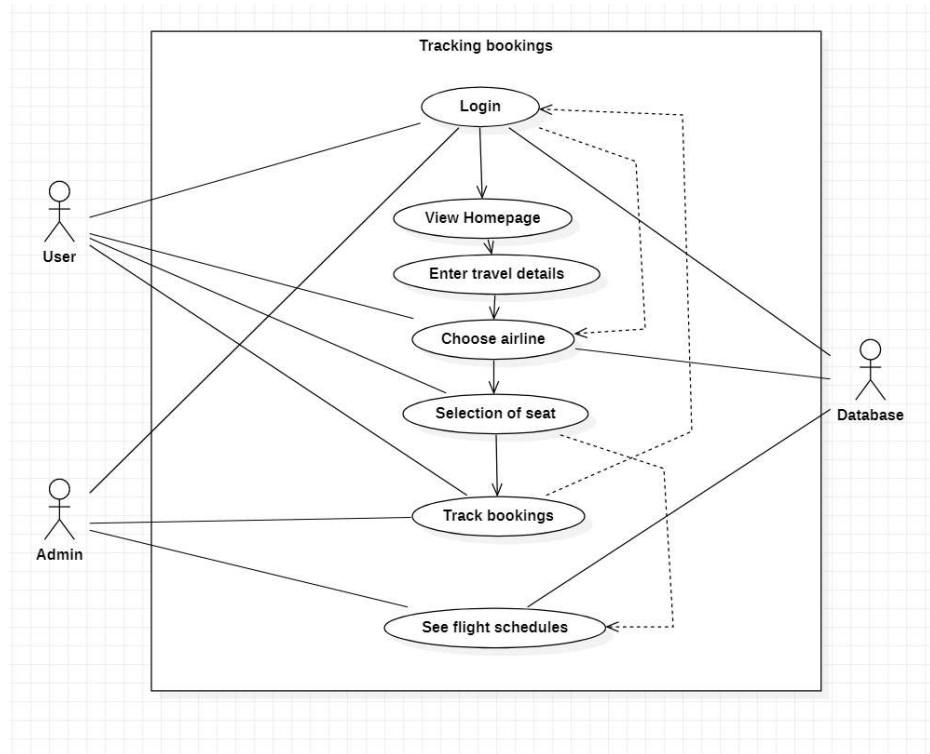# OOADJ

Project usecase, class, activity and state diagram

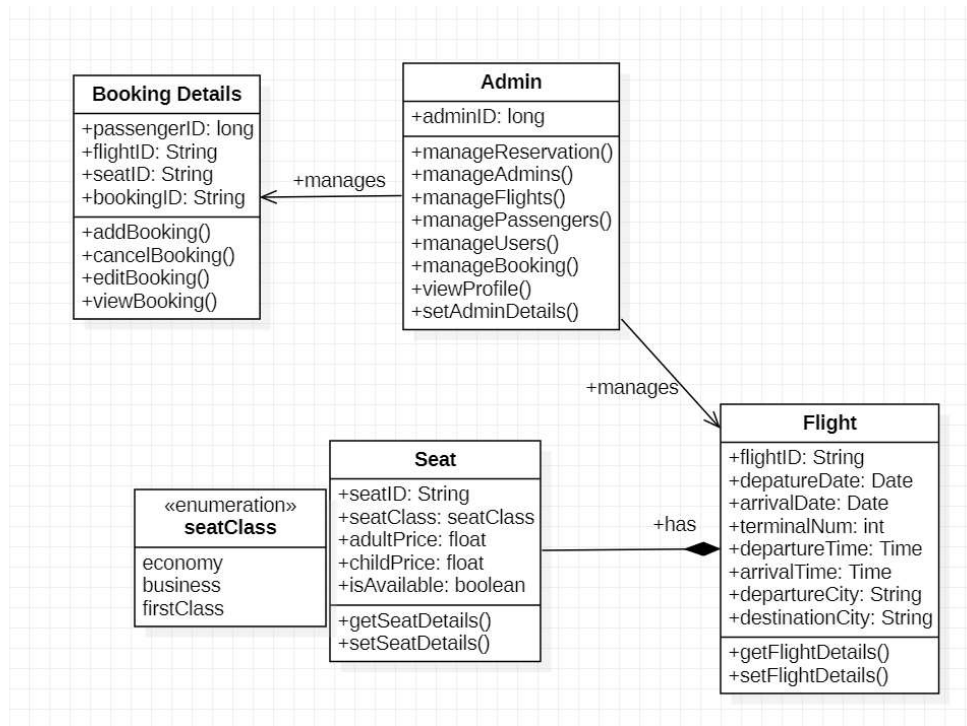## 1. Usecase diagram
- For View homepage usecase

- **For track bookings usecase**

2. Class diagram

- **For View homepage usecase**

● For track bookings usecase
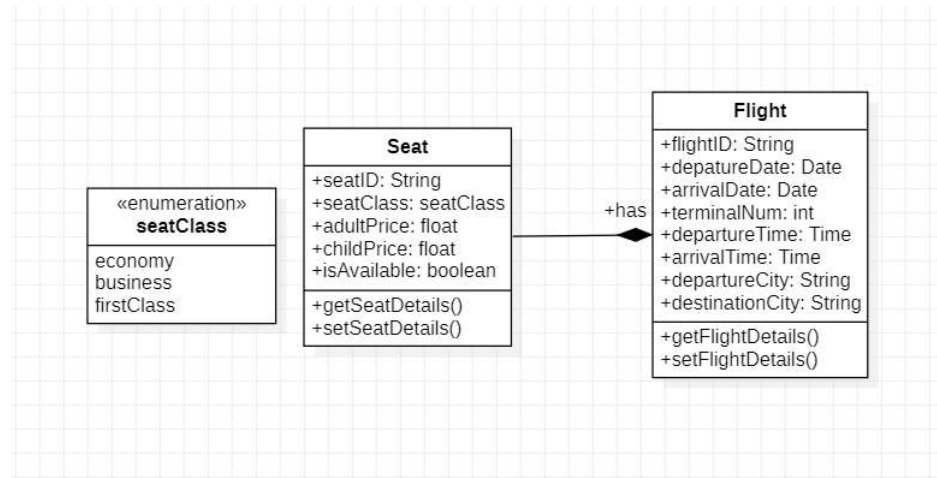
3. Activity diagram
● For View homepage usecase

● For track bookings usecase

User | Admin

- Login (User)
- Login (Admin)
- View Homepage
- Enter travel details
- Display flight schedule table
- Choose airlines
- Check availablity of airlines
- Verify database for flights
- indicate availability
- Indicate empty
- receive details
- Estimate price
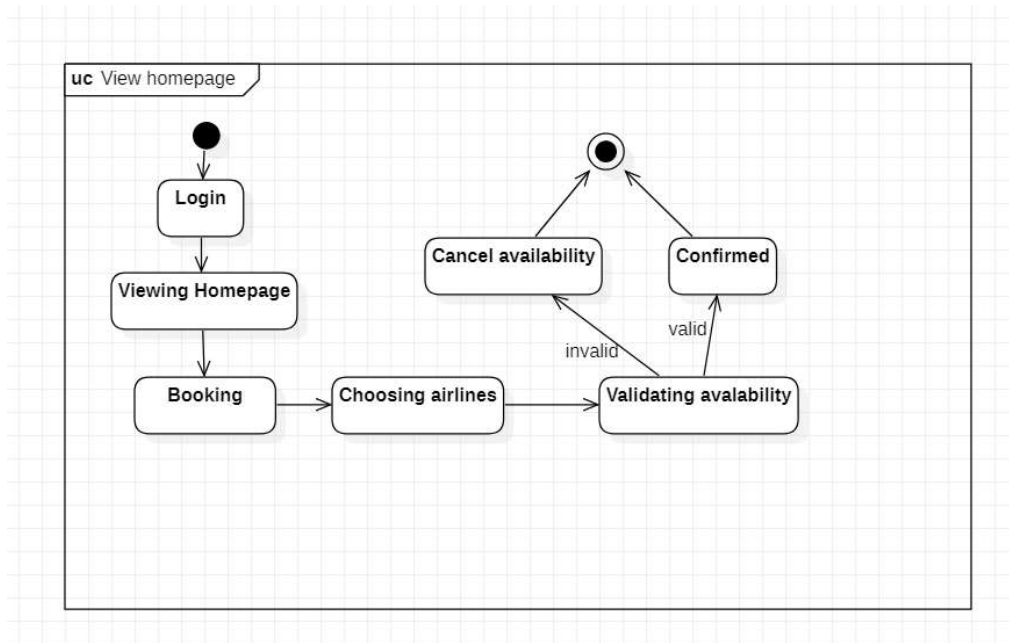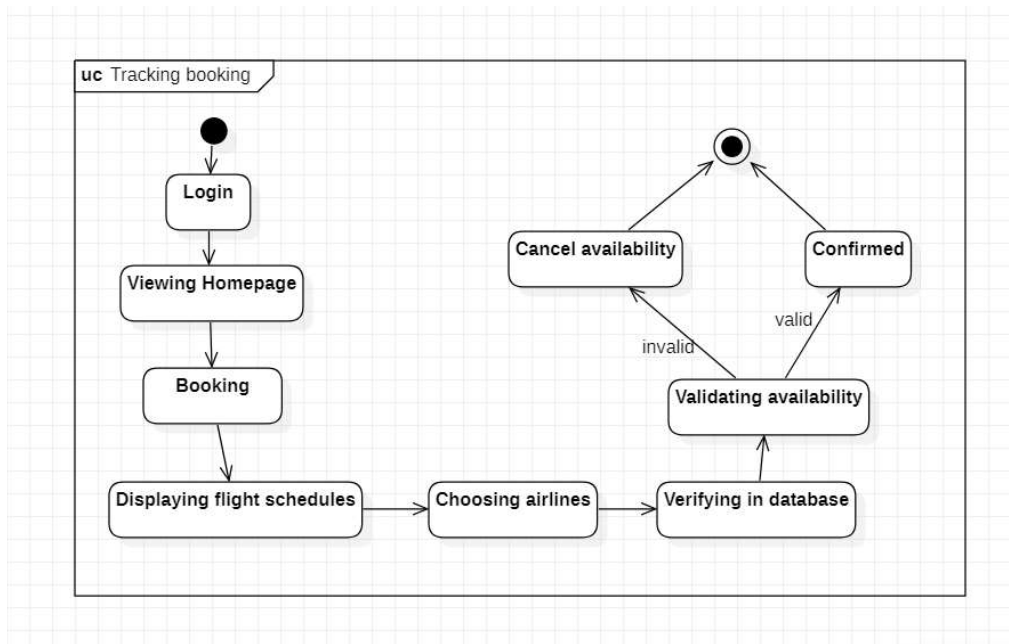- Return to homepage
- proceed to booking
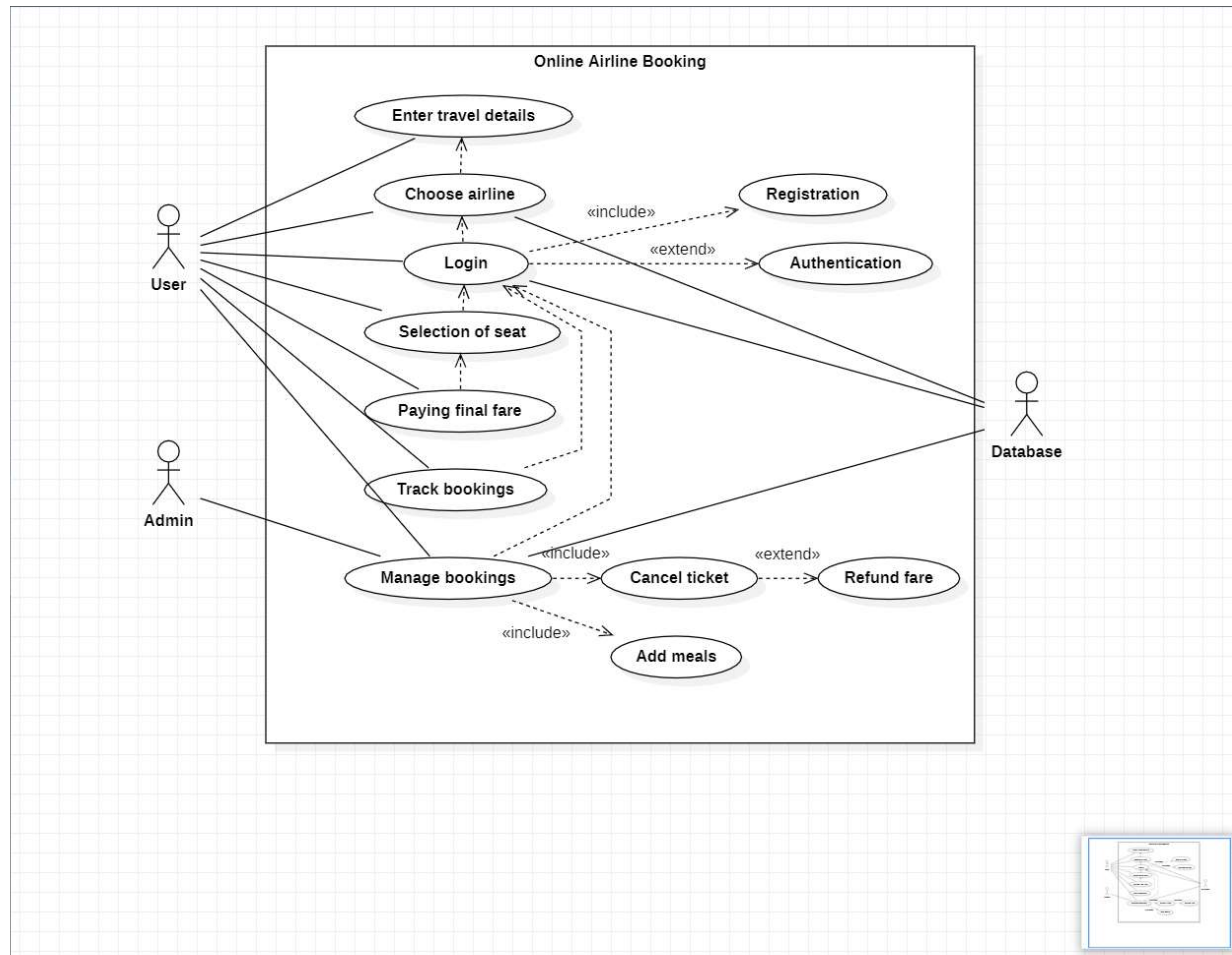- Logout
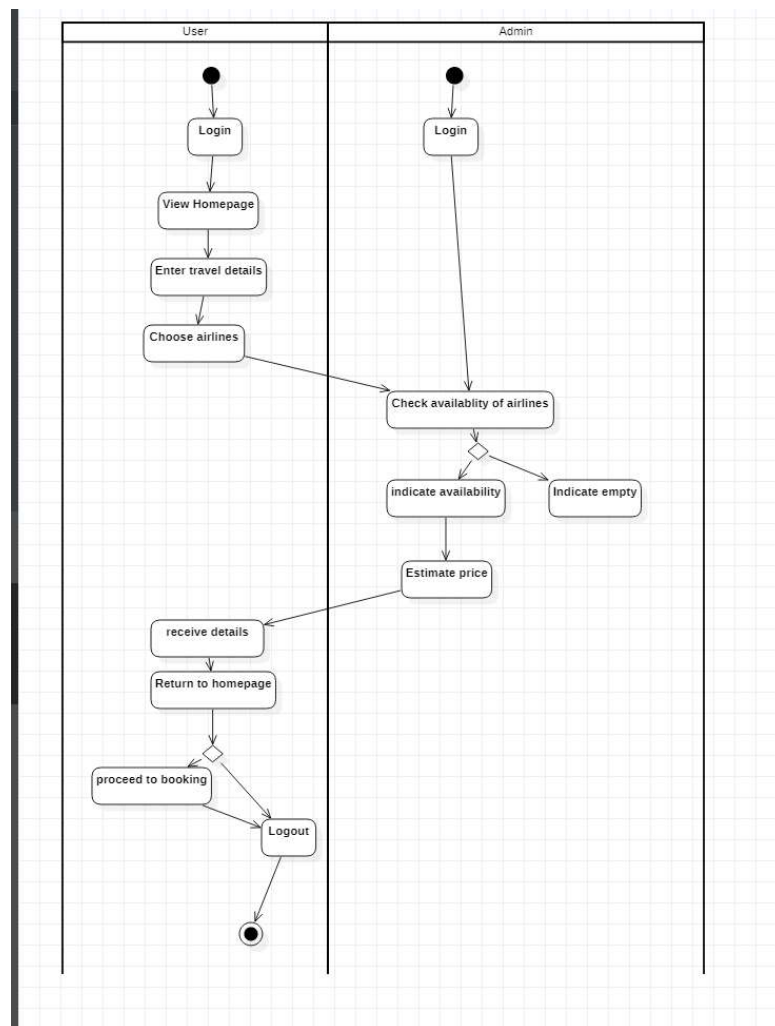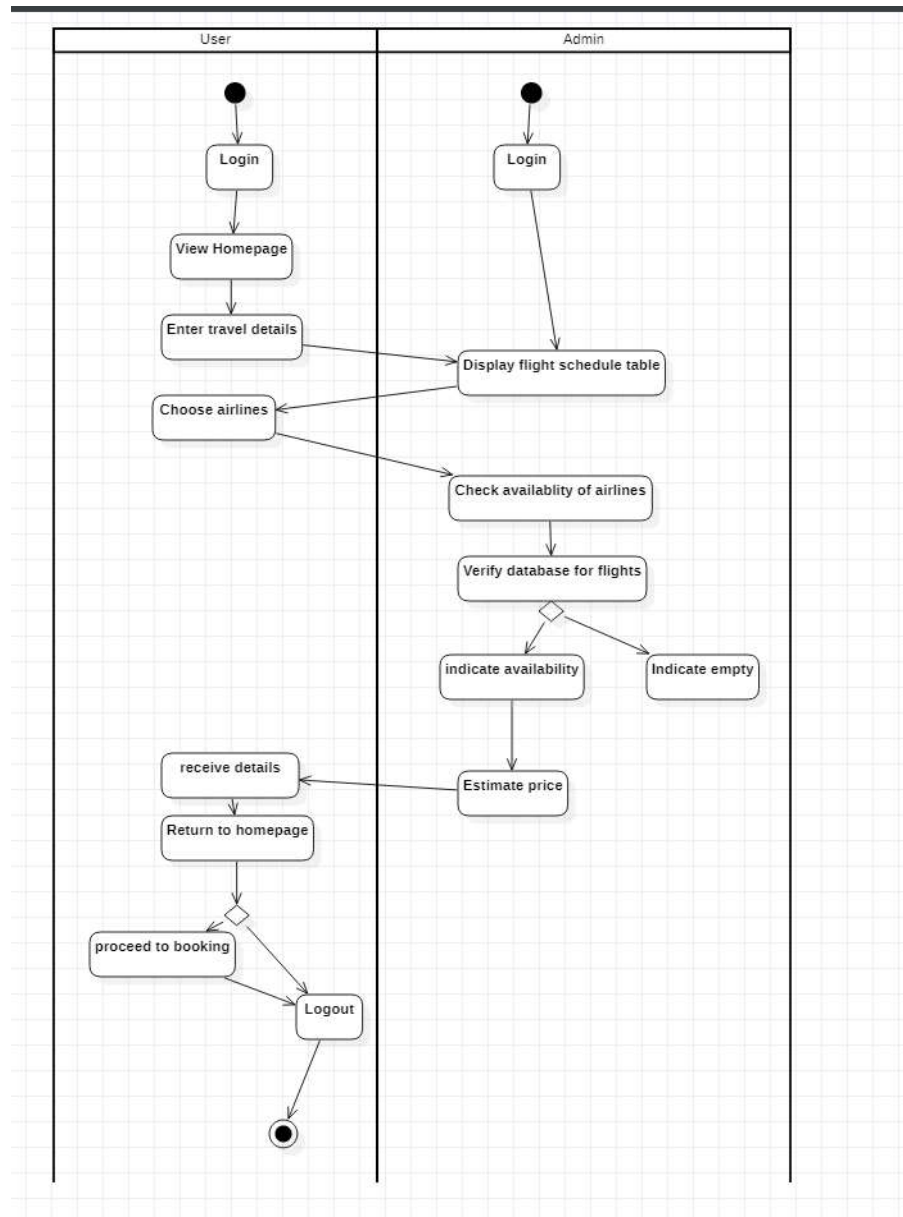
4. State diagram

- ● For View homepage usecase

- ● For track bookings usecase

5. Overall usecase diagram

6. Overall class diagram

Admin
+adminID: long
+manageReservation()
+manageAdmins()
+manageFlights()
+managePassengers()
+manageUsers()
+manageBooking()
+viewProfile()
+setAdminDetails()

+manages

User
+userName: String
+userID: long
+age: int
+isAdmin: boolean
+viewProfile()
+setUserDetails()

+makes

Login
+userName: String
-password: String
+login()
+logout()
+adminLogin()

Registration
+userName: String
-password: String
+email: String
-phNumber: Phone
+enterDetails()
+checkFieldValidity()
+register()

+manages

Flight
+flightID: String
+depatureDate: Date
+arrivalDate: Date
+terminalNum: int
+departureTime: Time
+arrivalTime: Time
+departureCity: String
+destinationCity: String
+getFlightDetails()
+setFlightDetails()

+has

Booking Details
+passengerID: long
+flightID: String
+seatID: String
+bookingID: String
+addBooking()
+cancelBooking()
+editBooking()
+viewBooking()

Passenger
+passengerID: long
+name: String
+age: int
+gender: String
+manageBooking()
+getPassengerDetails()
+setPassengerDetails()

+performs

Seat
+seatID: String
+seatClass: seatClass
+adultPrice: float
+childPrice: float
+isAvailable: boolean
+getSeatDetails()
+setSeatDetails()

«enumeration»
seatClass
economy
business
firstClass

Payment Transaction
+transactionID: long
+bookingID: long
+amount: float
+paymentMethod: paymentMethod
+transactionStatus: status
+getTransactionDetails()
+setTransactionDetails()

«enumeration»
paymentMethod
UPI
Card
Net Banking

«enumeration»
status
Accepted
Denied
In process