

- Travel planning application

Afnan saleh

Jory basim

Aryam favez

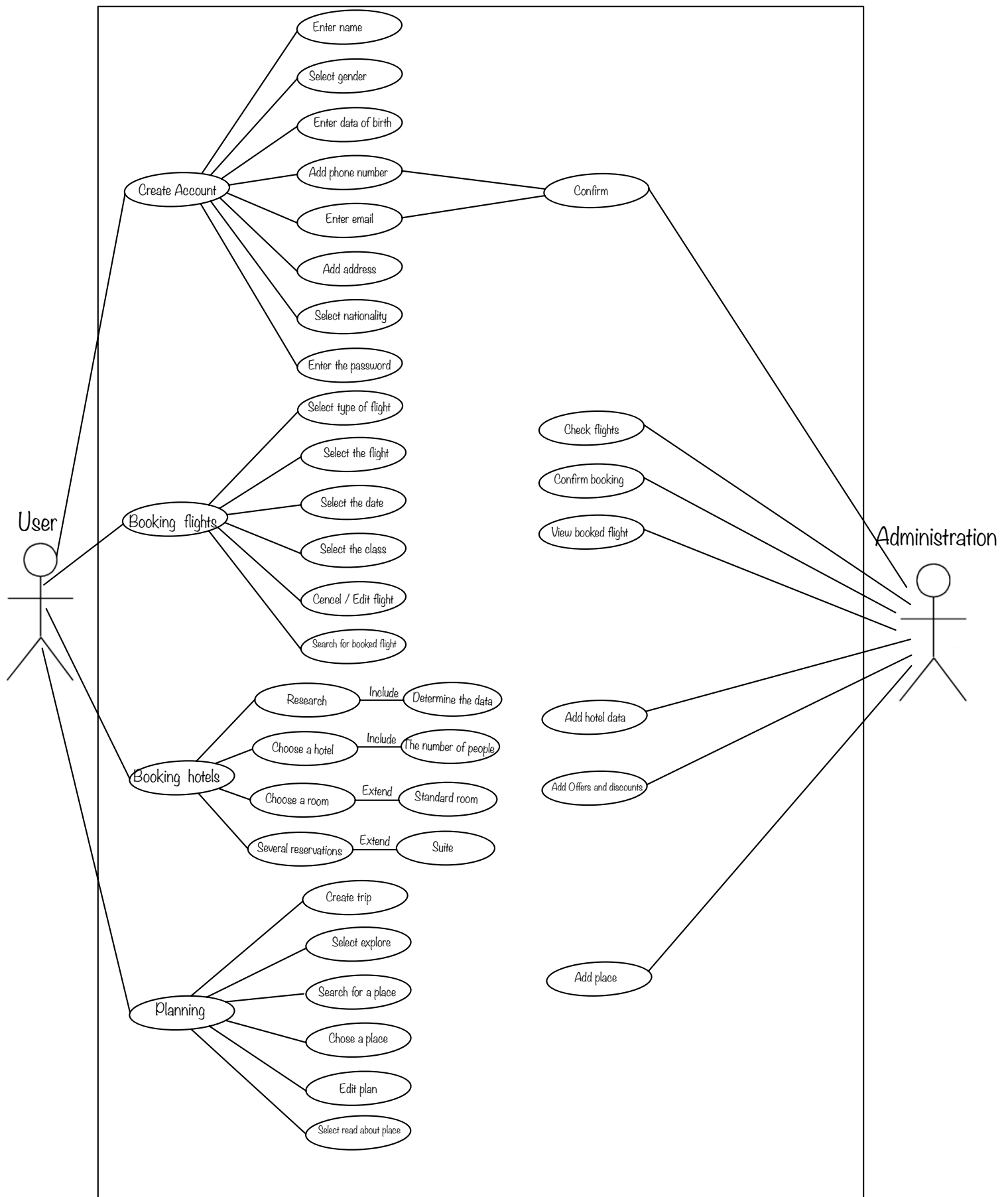
Layan khaled

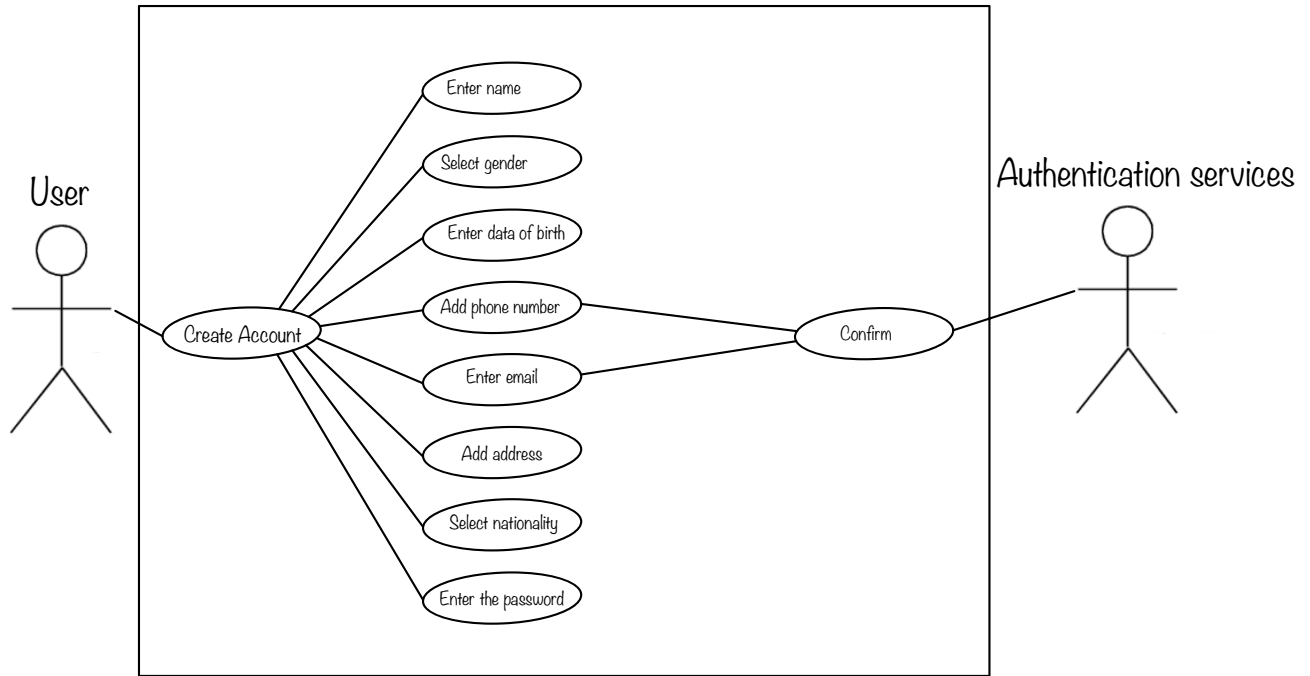
Aseel ahmed

• Problem Description

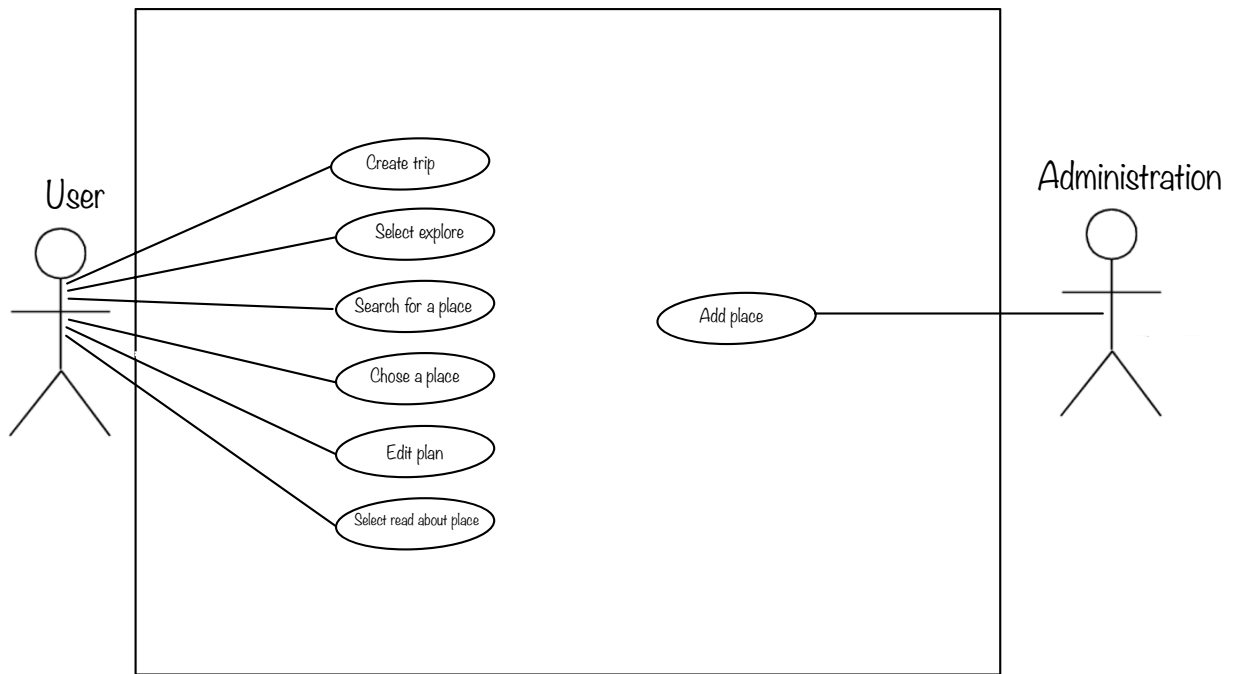
- The travel planning application aims to facilitate the travel experience for users and provides the most important features and services for travelers and helps them plan and book trips and travel with ease and explore the user's favorite recreational activities and book them immediately.
- The process begins when the user registers in the travel application and enters his personal information, and the system verifies the accounts of those who have registered to determine whether the user entered the password correctly or not.
- The user is allowed three attempts to enter the correct password, and a message is sent enabling the user to change the password if the third attempt fails.
- Start adding the sites and destinations you want to visit to your trip list. You can search for locations by their name or use geolocation to locate destinations.
- After adding the desired destinations, specify the travel dates and proposed trip duration.
- Customize your trip schedule by selecting the different activities and visits you want to do at each destination. You can specify the start and end time and duration of each activity.
- Determine the trip budget and determine the expected costs for transportation, accommodation, food, and other activities. This will help you monitor expenses and ensure you stay within budget.
- Once the flight schedule is complete and details are specified, confirm your reservation by clicking on the Booking or Booking Confirmation button available in the application.
- After confirming your reservation, you can view the full trip schedule with details, dates, and activities. You can print the schedule or export it to other applications for reference while traveling.

• Use case





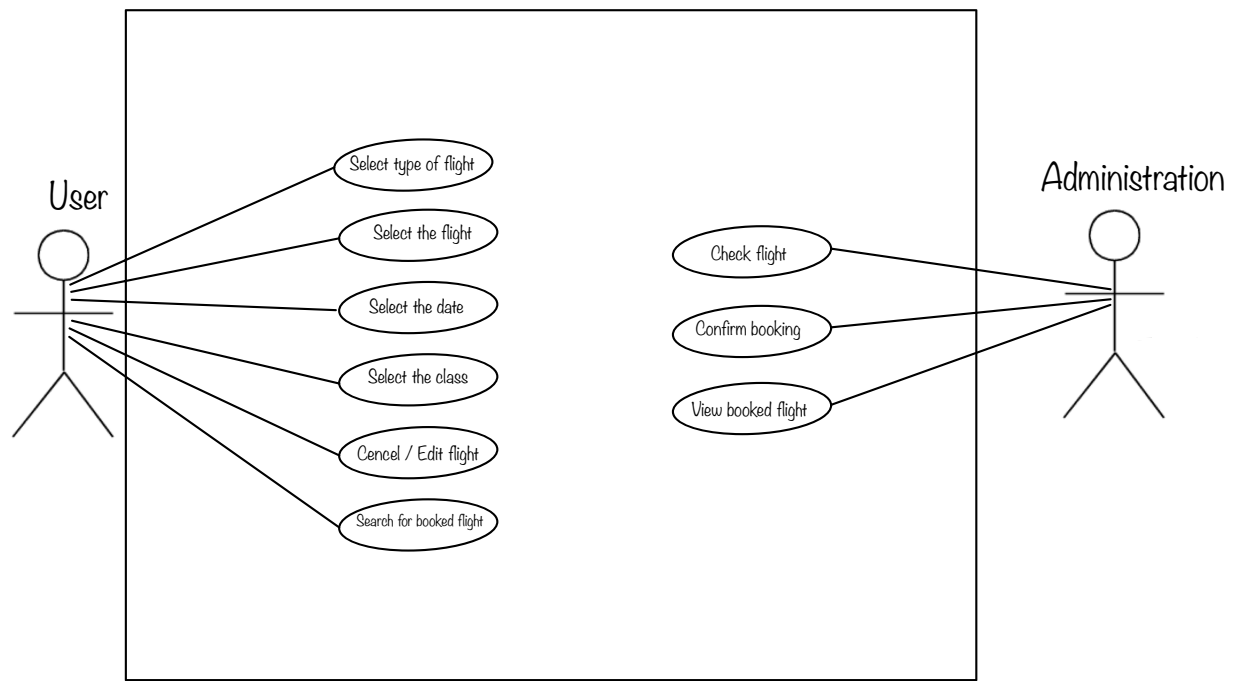
- **Create account**
- In this system, a new account is created by the user in the booking application, so that the user enters his personal information to create the account. He enters his name (first name - last name), selects the gender (male - female), and enters the date of birth, mobile number, and e-mail. You can also enter the address and specify the nationality (Saudi - Egyptian - Lebanese - etc.), and what is important and most important is entering the password.
- The system then verifies by sending a code via SMS (mobile number) or by sending a code to (email).
- Creating an account in the application is important so that the user can fully plan his travel.



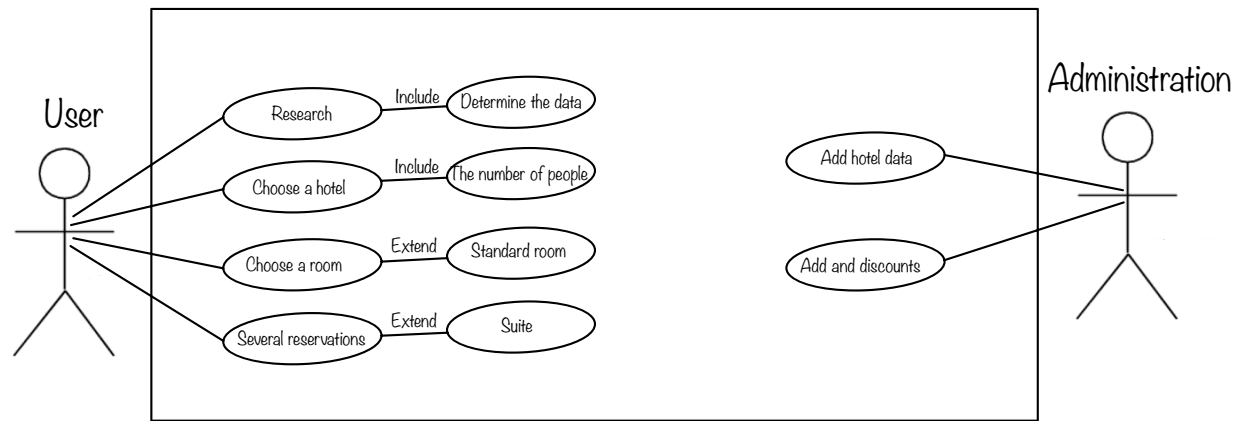
- **Planning**

- One of the most important things that the application should provide the user is the ability to plan the places he wants to visit during his trip

In the beginning, the user creates a trip, then chooses to explore and search for his favorite place. He can read about the place, choose it, and modify his plan

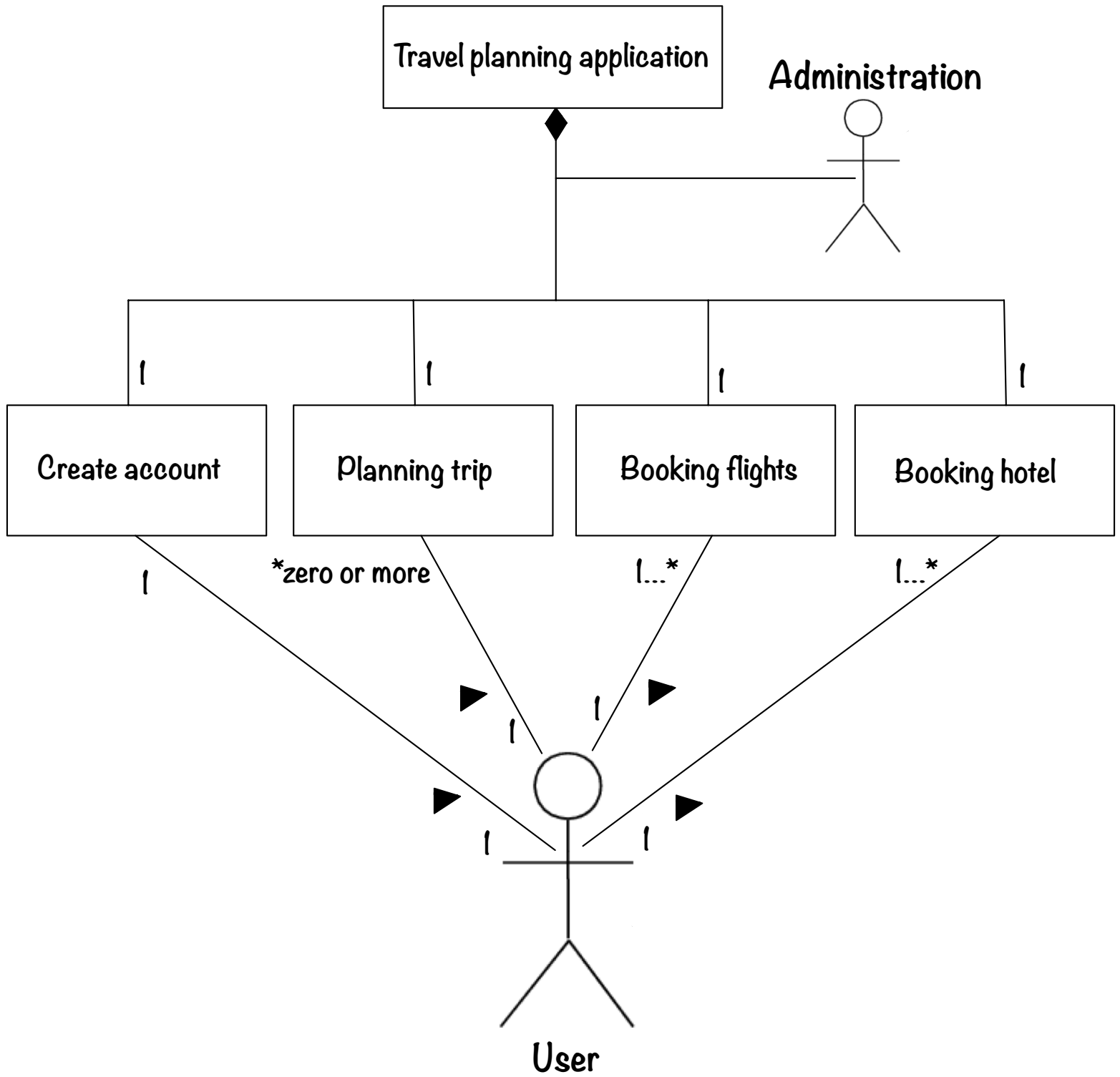


- **Booking flight**
- if the user wants to book a trip through the travel planning application you will go through these steps:
- first, the user must specify the type of trip he wants if it is (round trip - round trip - multiple cities).
- after that, choose the flight (city and airport).
- after that, he chooses the date of the flight and the class he wants to book (economy - business - first).
- if the user wants to modify or cancel the trip, he can do so in addition to reviewing the reservations by searching for flight reservations.
- the system checks and reviews the available flights and confirms the reservation for the selected flight. in addition to displaying details of booked flights.

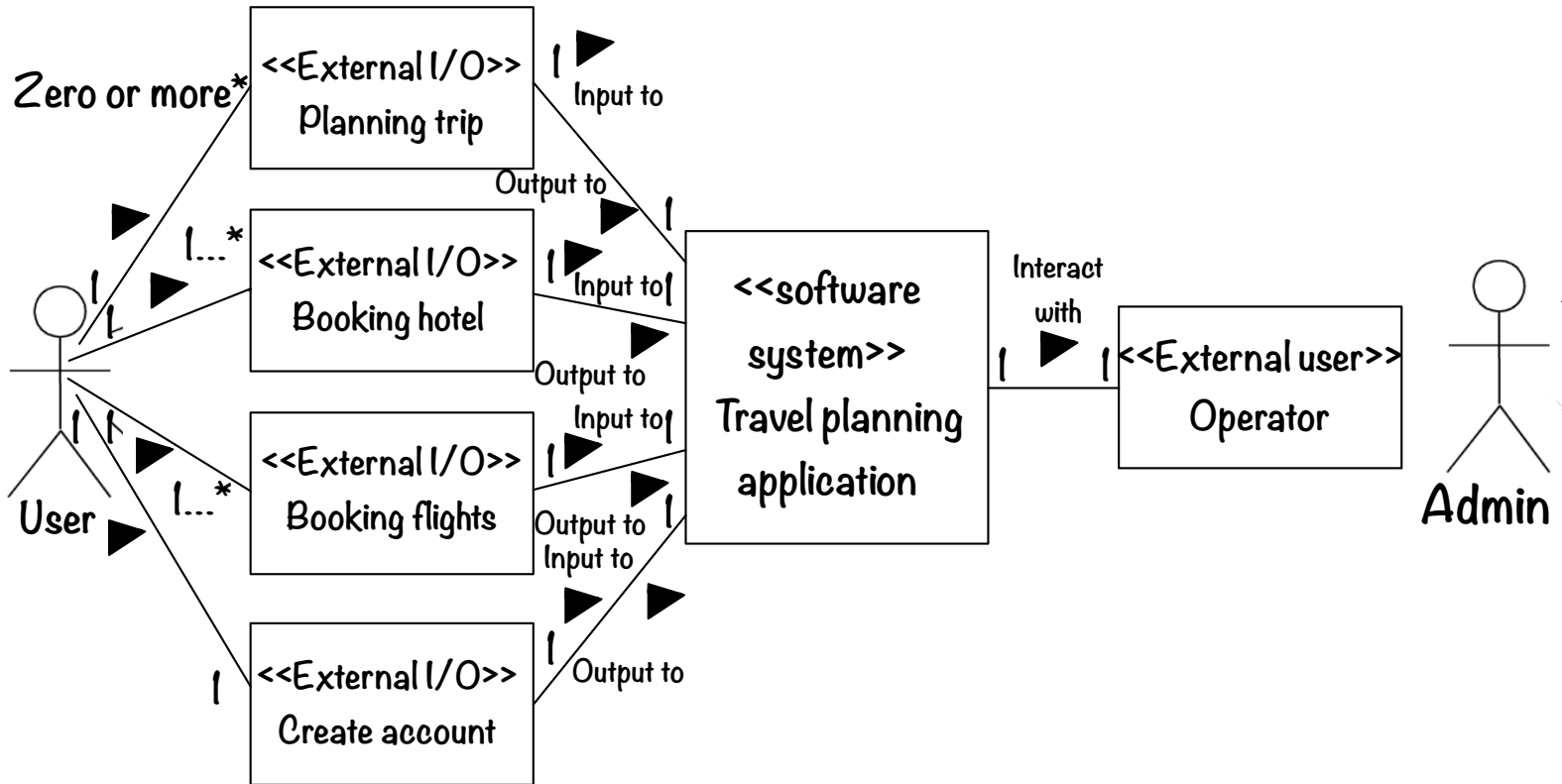


- **Booking hotels**
- Our application also has a hotel reservation service to make it easier for the user to search for hotels, choose the hotel with the appropriate date for him, and then choose the appropriate room for him, such as a regular room or a suite. It can also make multiple reservations for hotels in different areas.

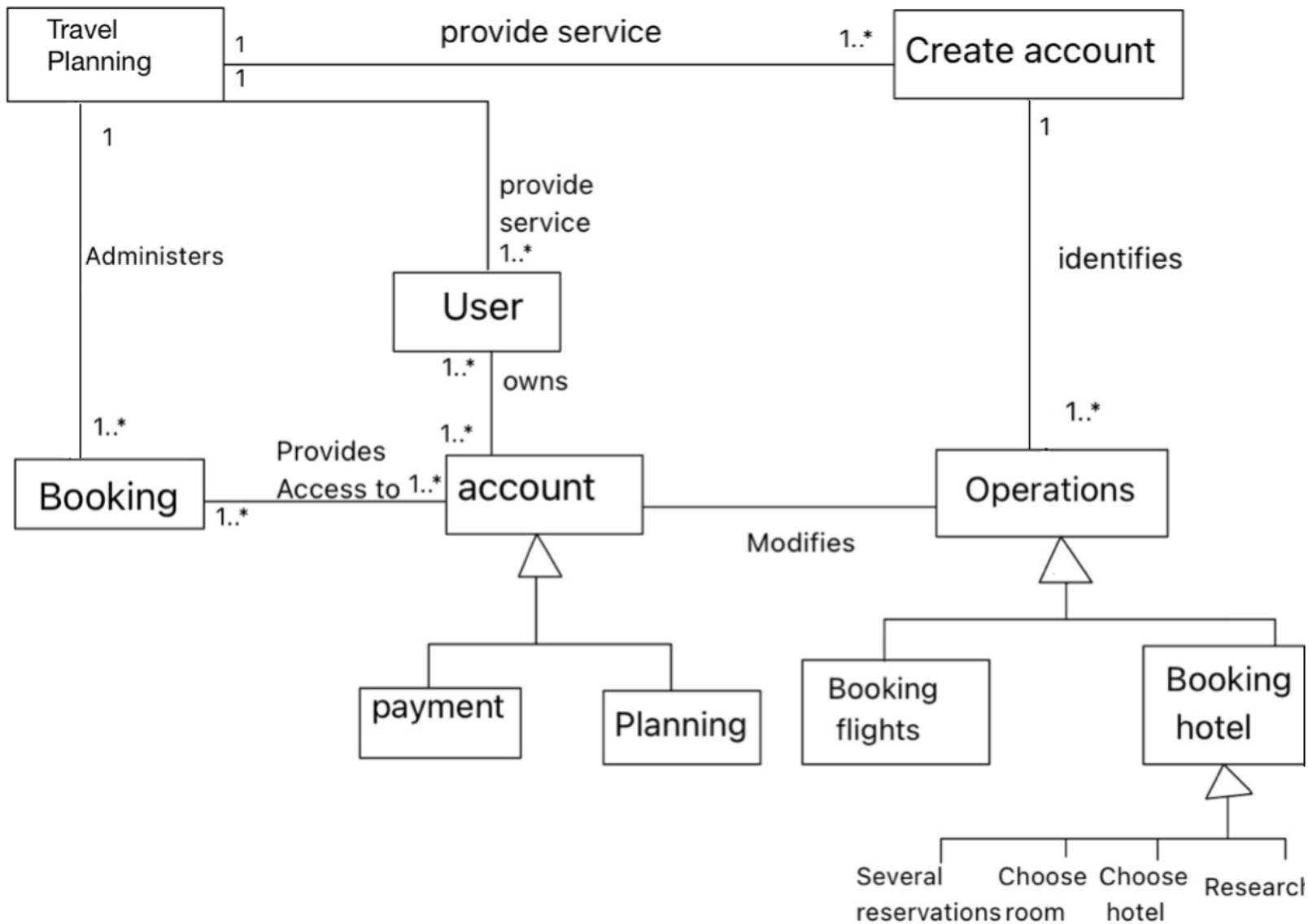
- Static model



- Context class diagram



- Entity classes



• Class attributes

Travel planning

UserProfile:String
ApplicationID:Int
DestinationsTable:String
Bookings:String
Reviews:String
Payment:int
CreateTrip:String
SearchPlace:String

User

UserName:String
UserId:int
UserAddress:String
PhoneNumber:int
password:int
DateBirth:Date
email:String
NumberTravelers:int
City:String
rating:int
SelectFlight:String
CreatedData:Data
Description:String

Booking

bookingDate:Date
ReservationStatus:String
checkInDate:Data
checkOutDate:Data
HotelReservations:String
BookingFlight:String
ServiceName:String
ServicePrice:real

Booking flight

NumberPassengers:int
FlightDuration:int
airline:String
DepartureAirport:String
ArrivalAirport:int
FlightNumber:int
FlightStatus:String

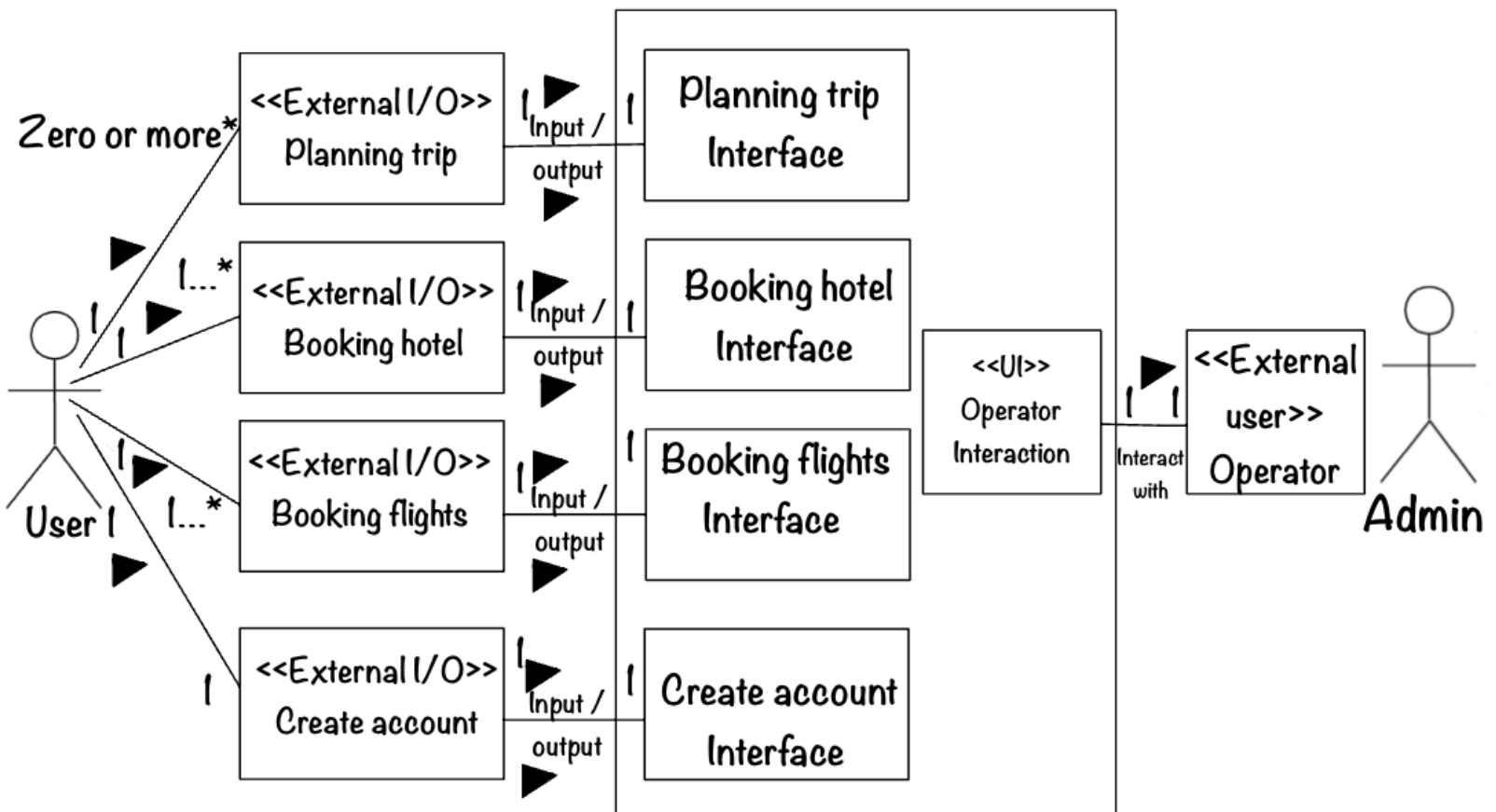
Payment

ReservationNumber:int
PaymentDate:int
PaymentAmount:Real
Status:String
ResponseMessage:String
TransactionId:int
Timestamp:Real
PaymentMethod:String
CardNumber:int
CardholderName:String
ExpirationDate:Data
cvv:int

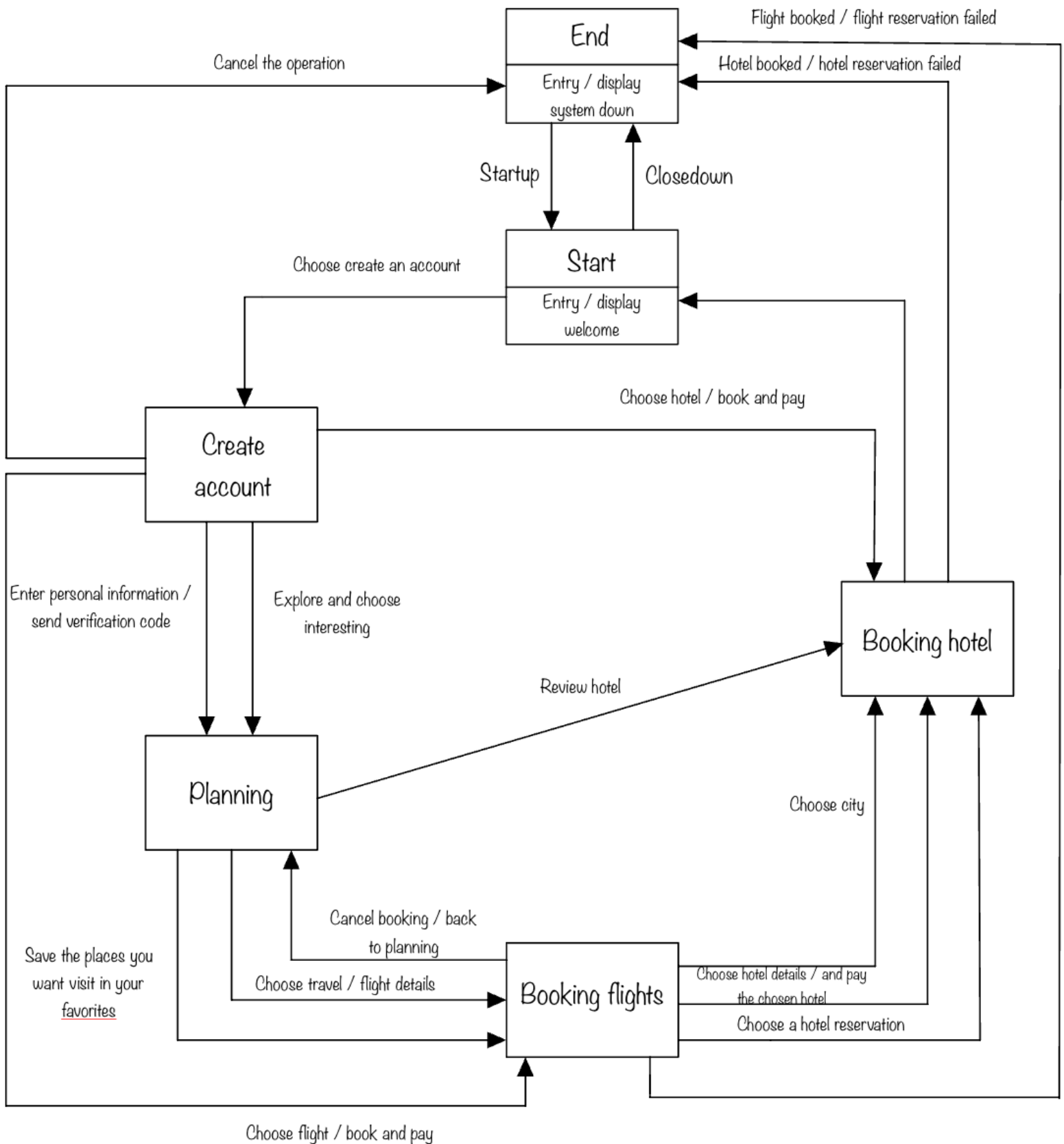
Booking hotel

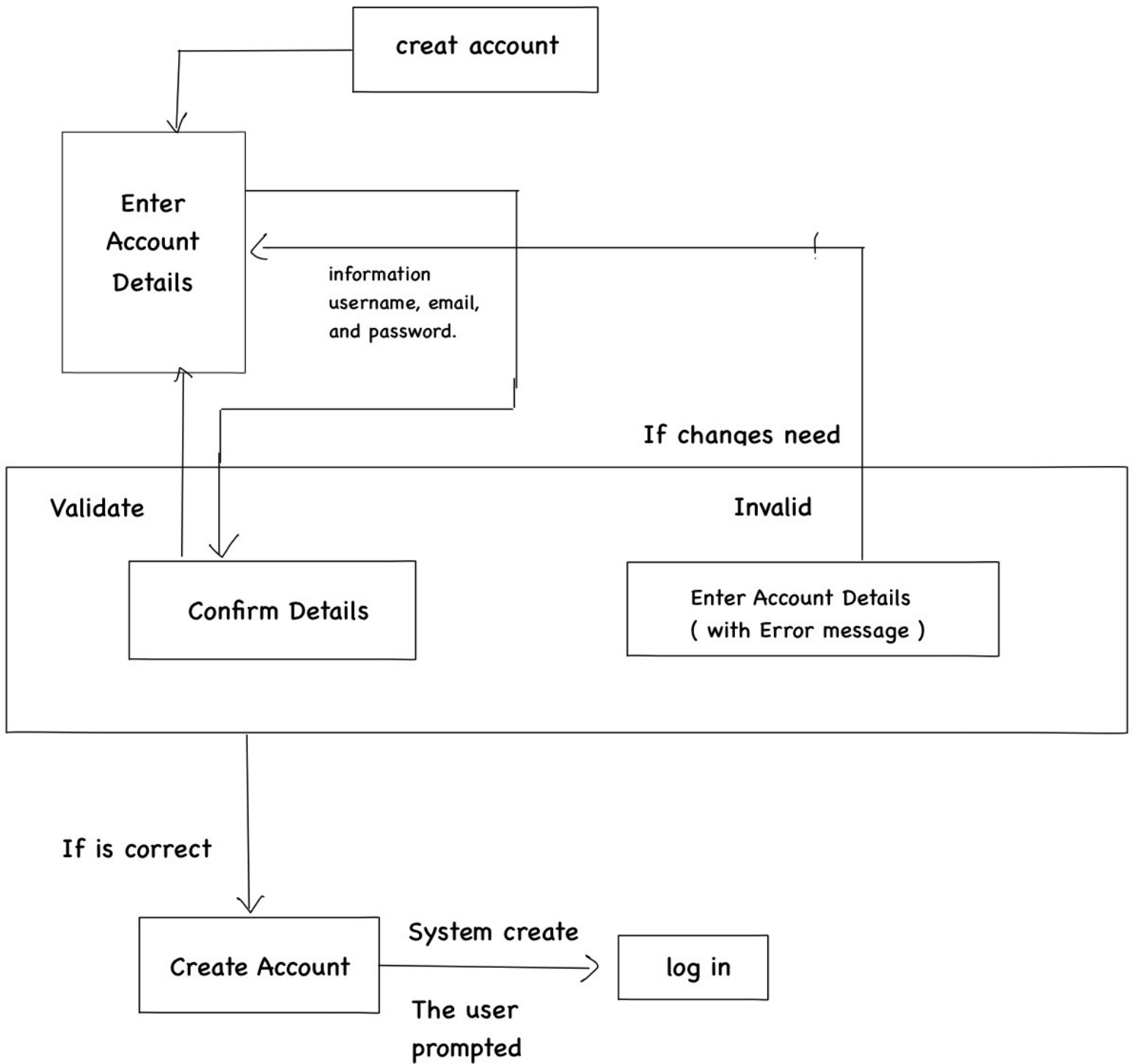
RoomType:String
ChooseaHotel:String
NumberGuests:int
HotelName:String
Rating:String
availability:String
RoomPrice:real

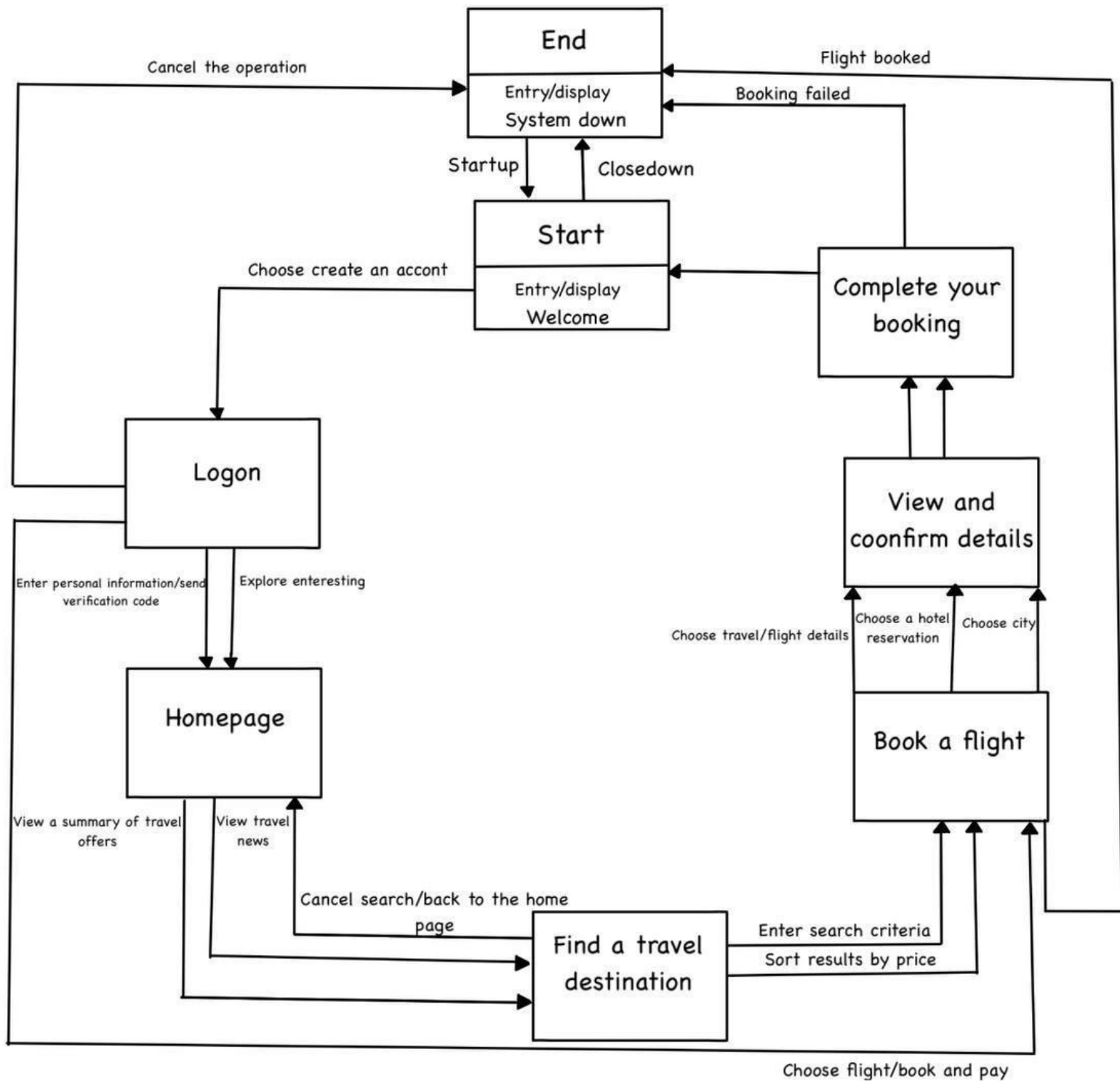
- External classes and boundary classes

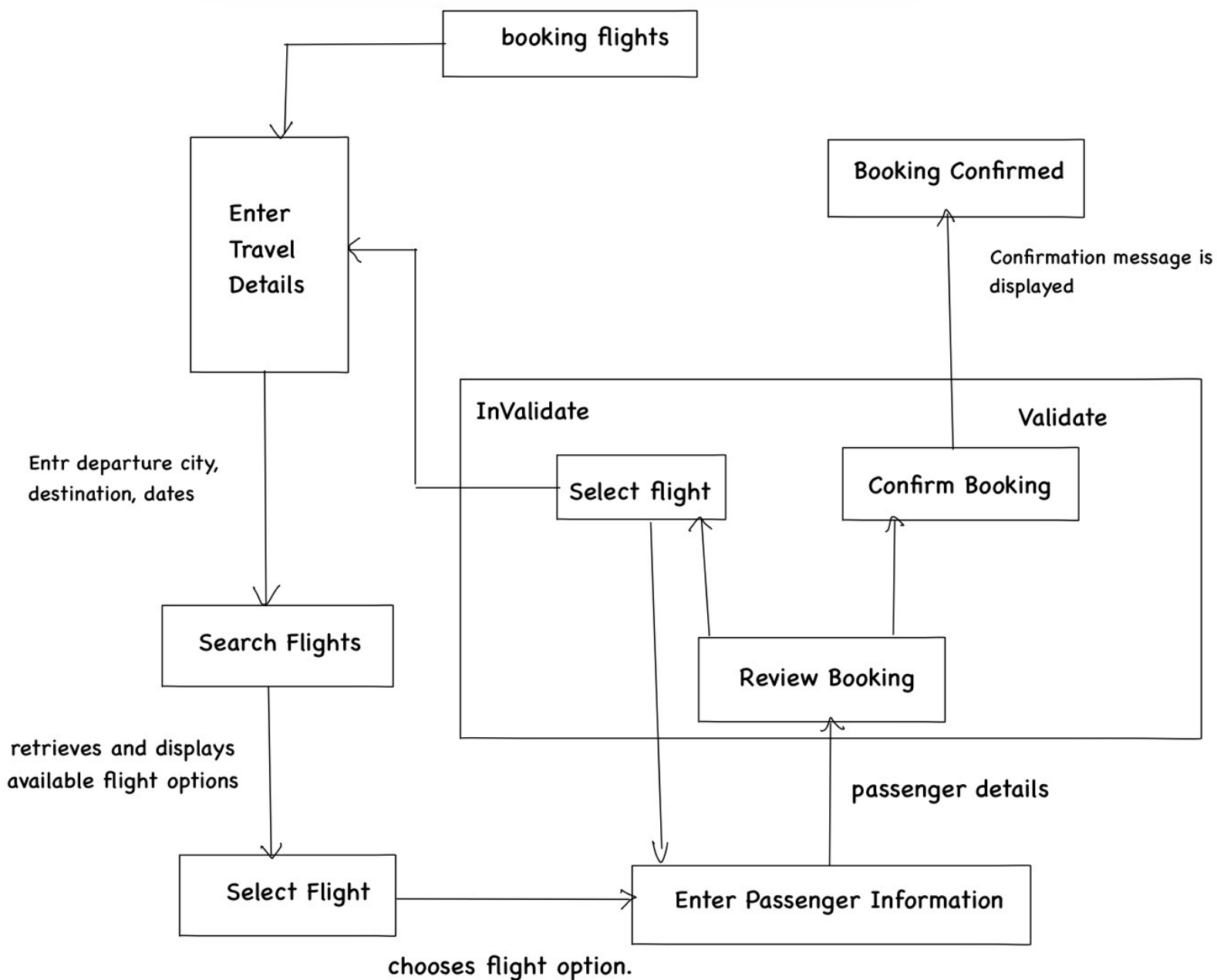


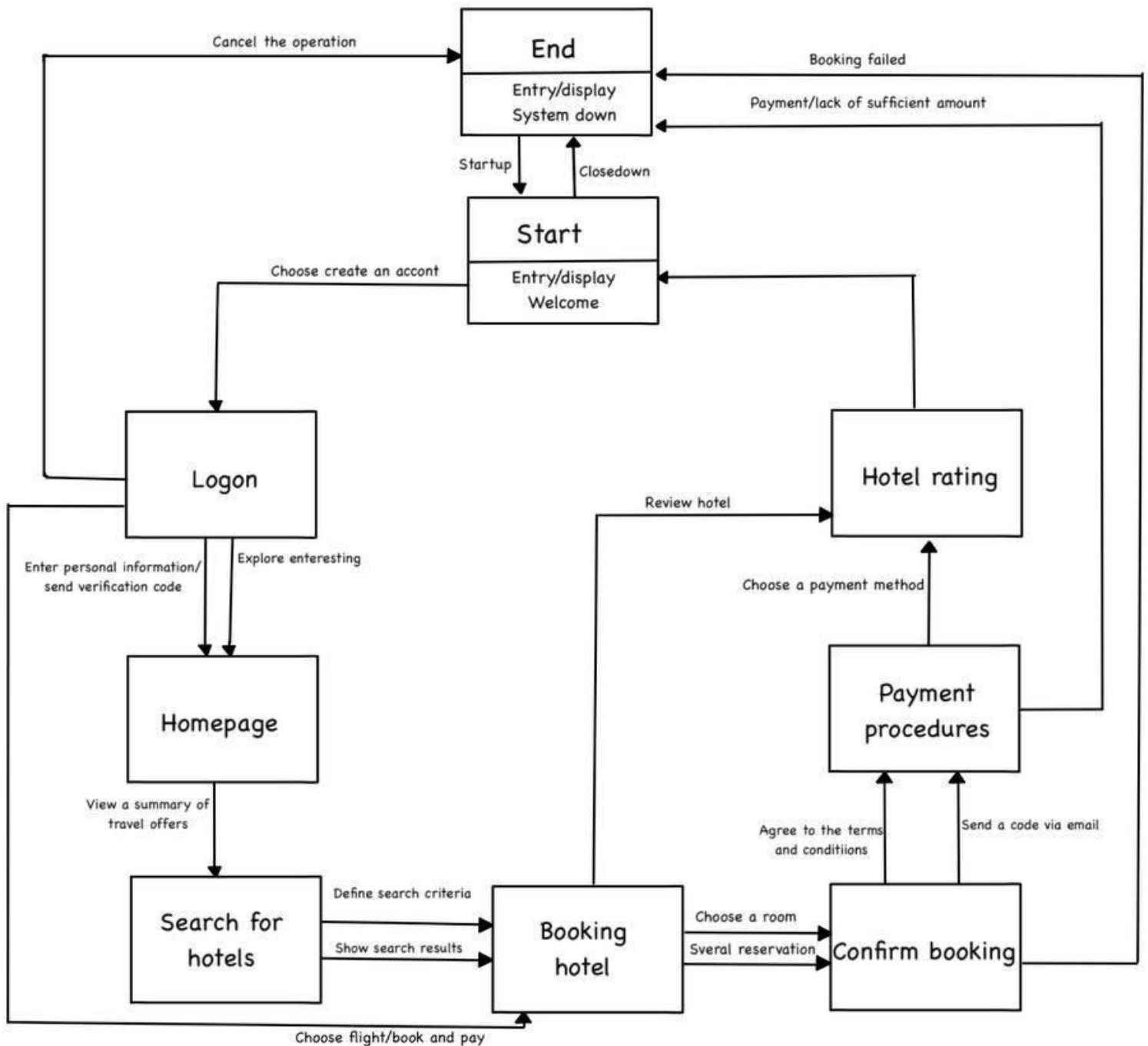
• State Chart











Sequence diagram

