

# Sunset Vacation

## ERD and Class Diagram

### A2 Group 2

1605051

1705040

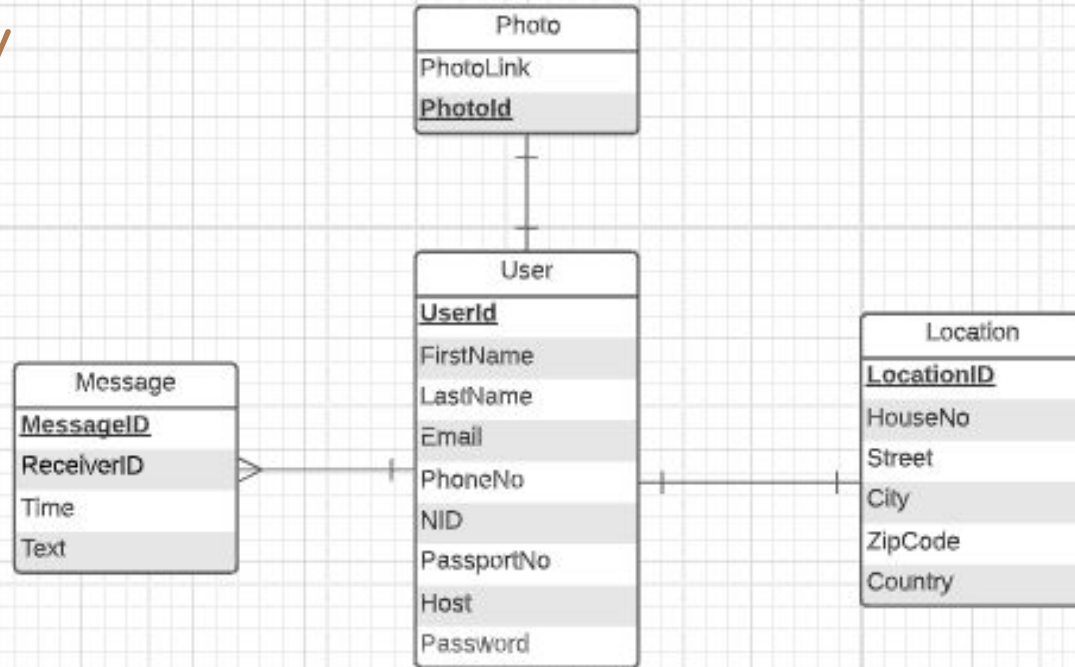
1705042

**1705043**

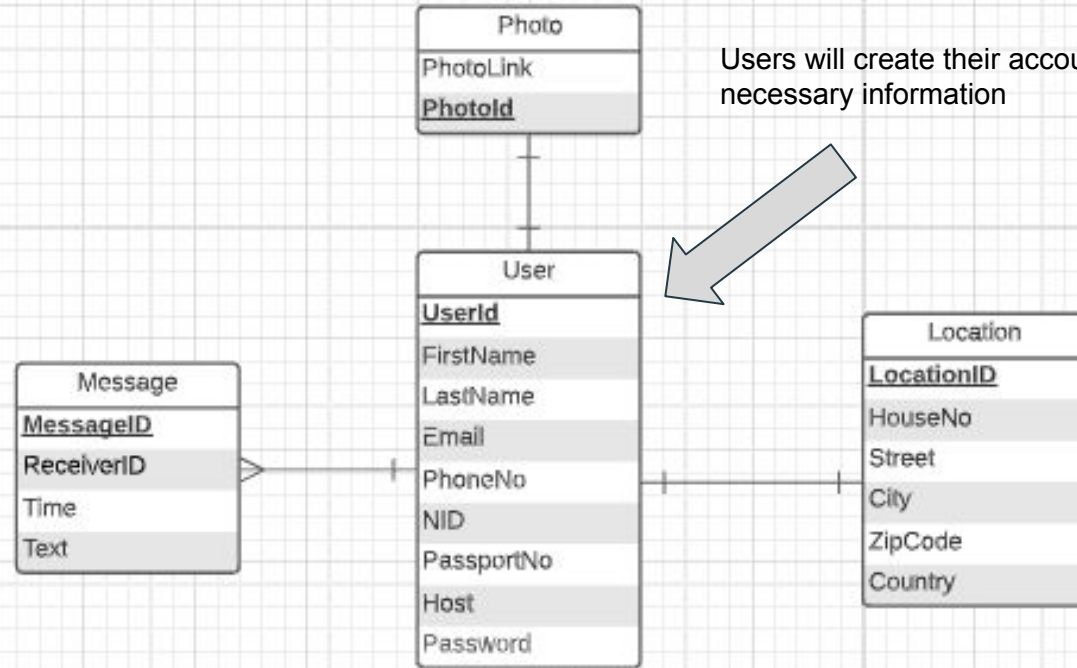
**1705048**

1705060

# User Entity Overview

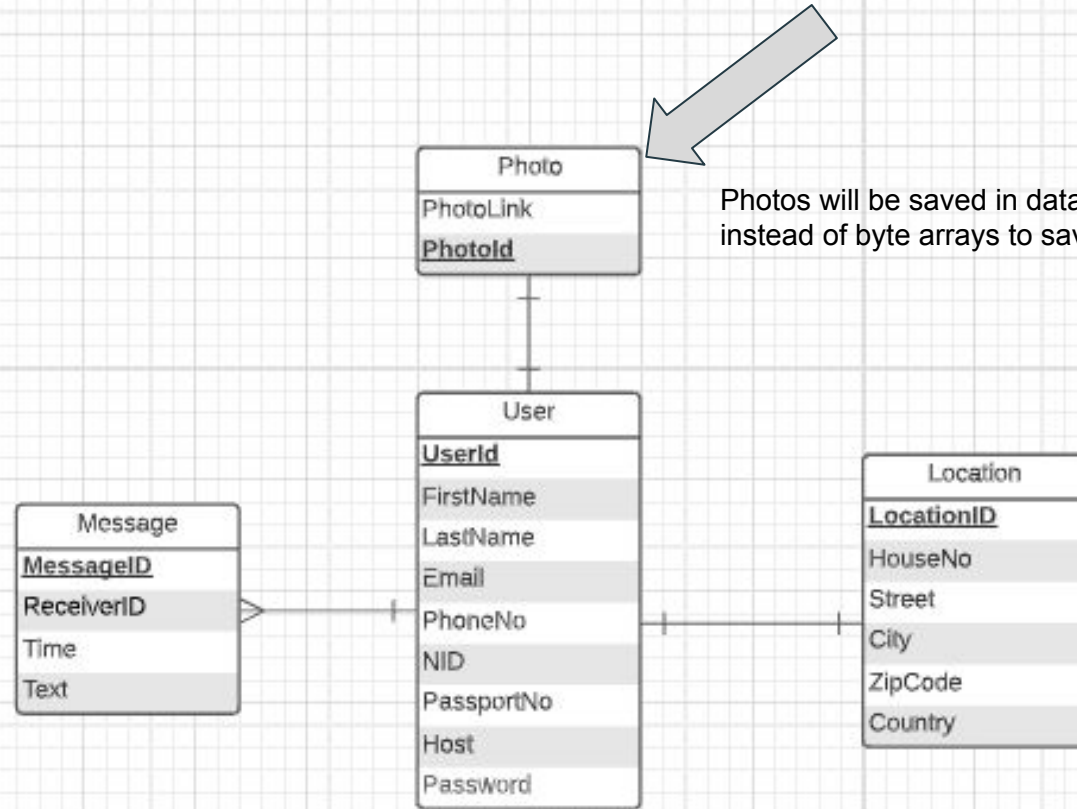


# User



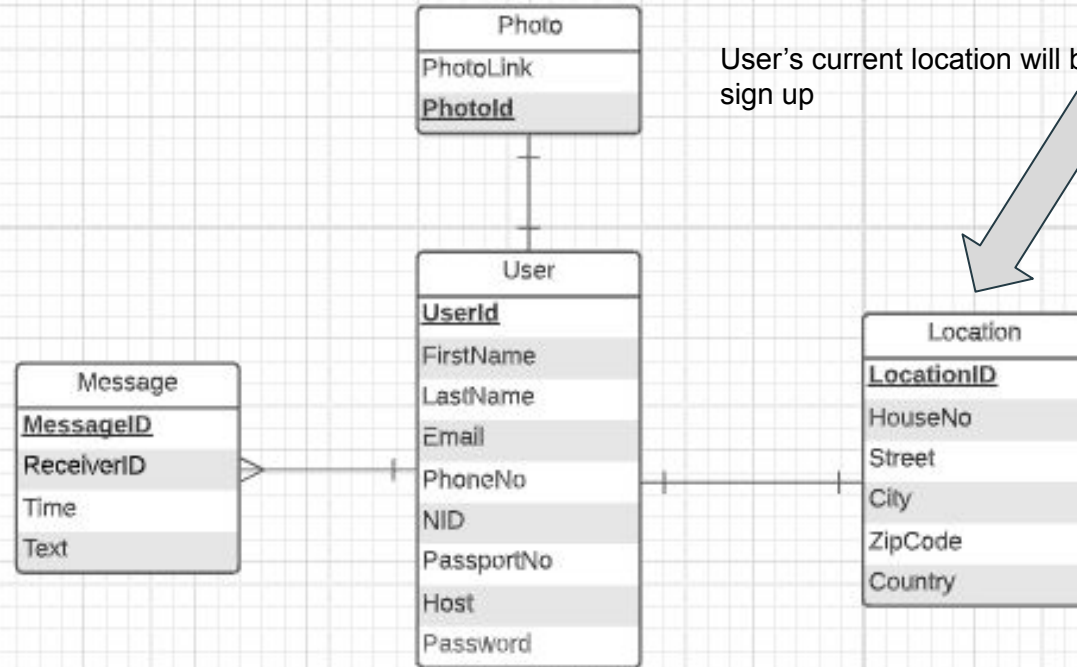
Users will create their accounts using necessary information

# User

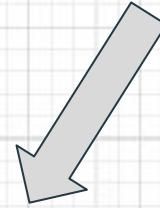


Photos will be saved in database as links instead of byte arrays to save space

# User

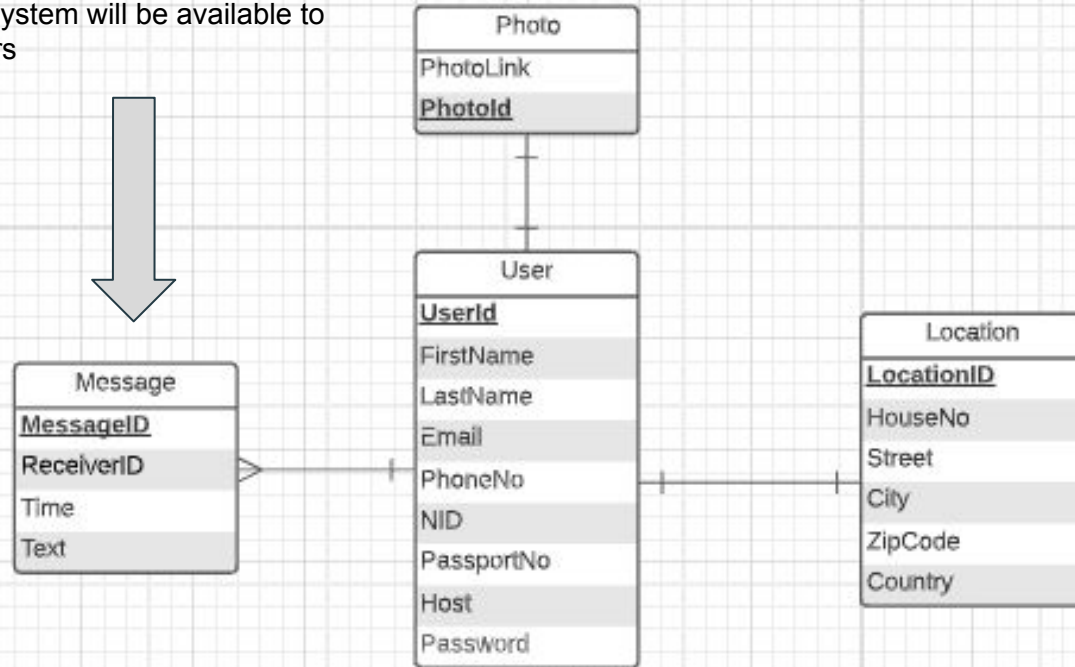


User's current location will be saved during sign up

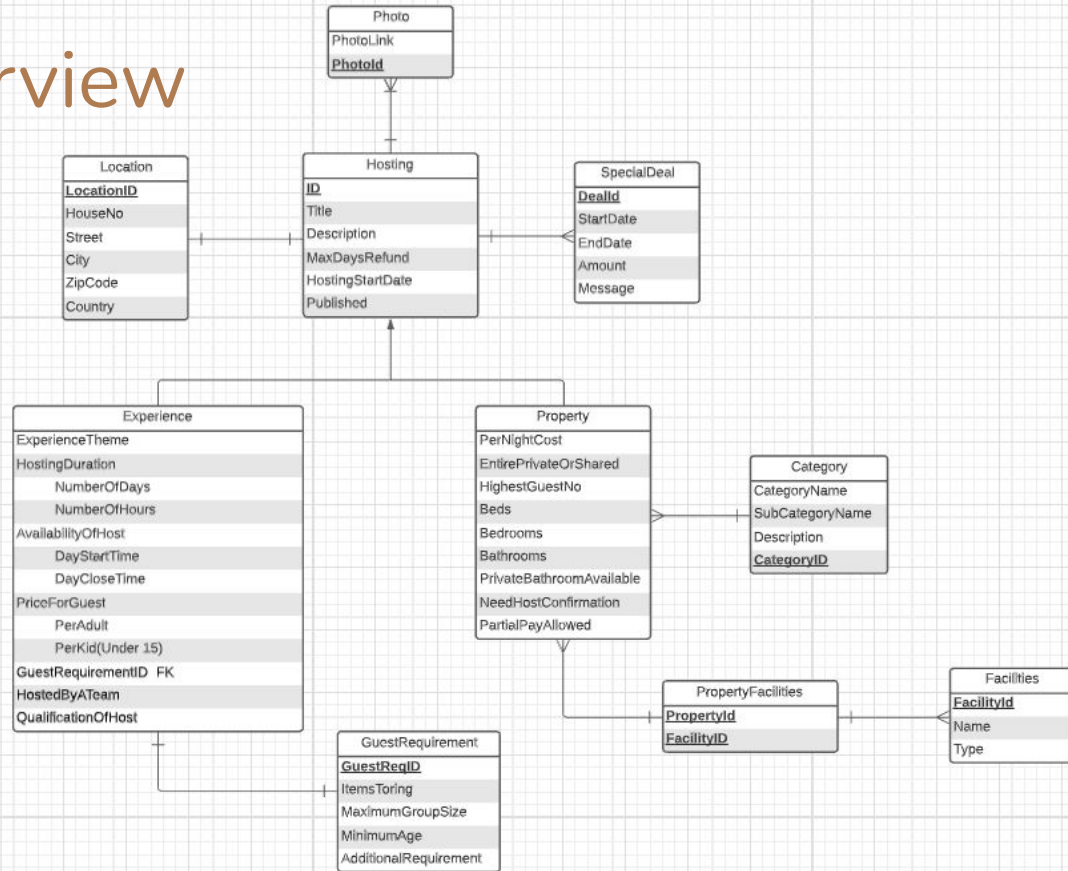


# User

A chat system will be available to the users



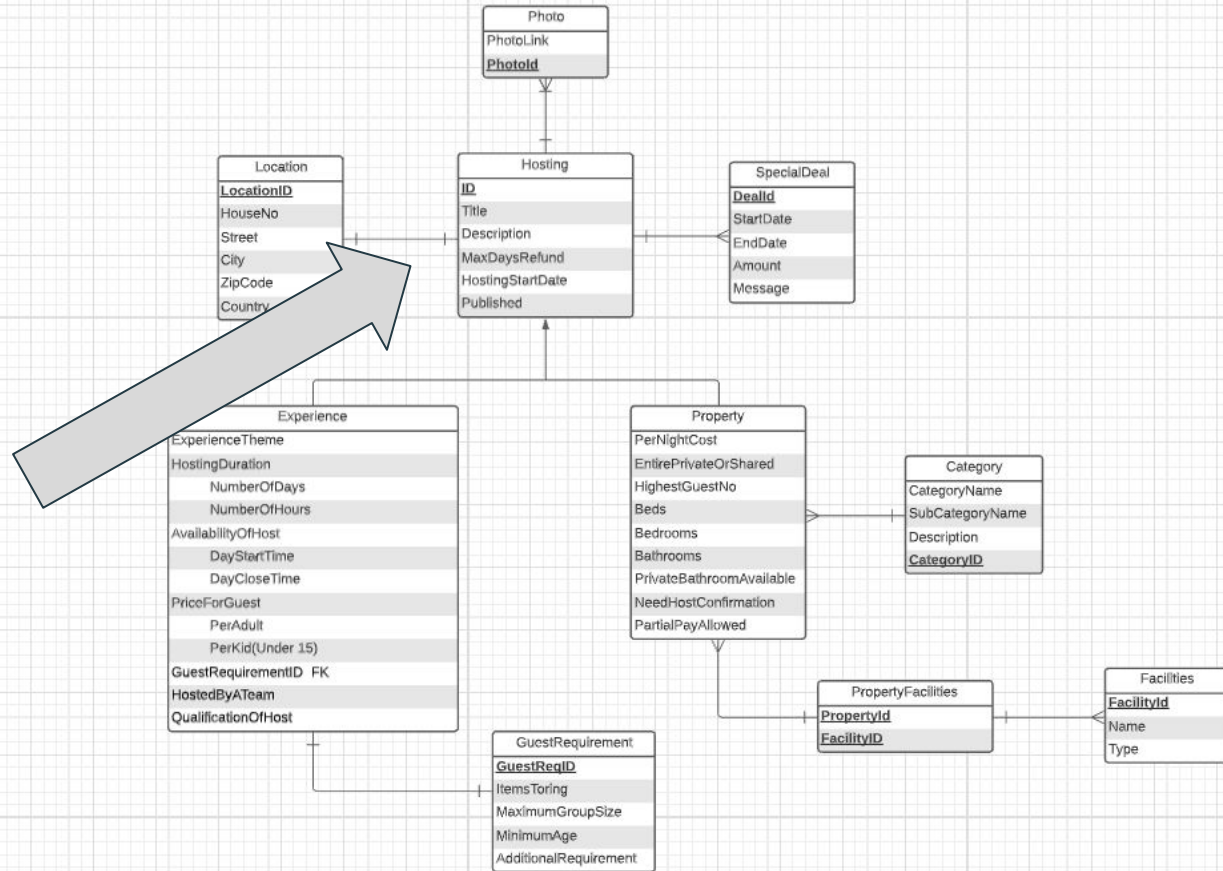
# Hosting Overview





# Hosting

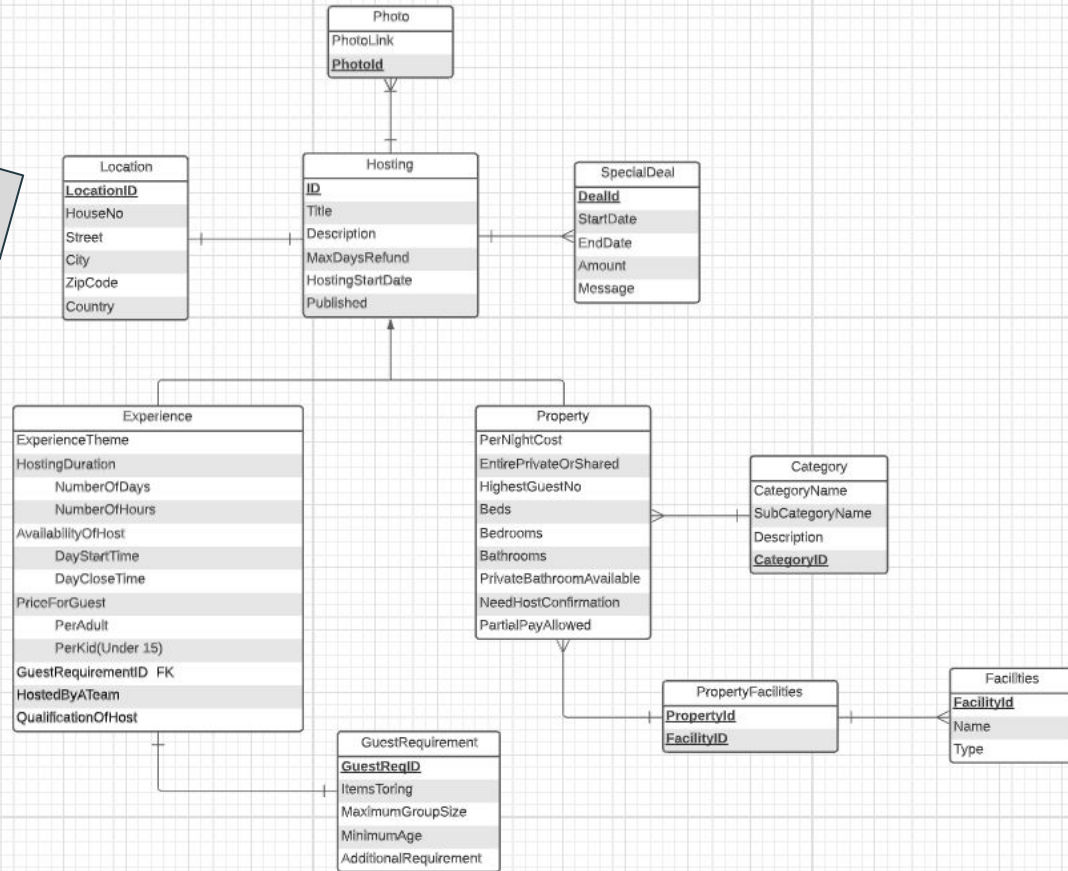
Hosting entity consists of the information that are common to the two entities that inherited it, 'Experience' and 'Property'





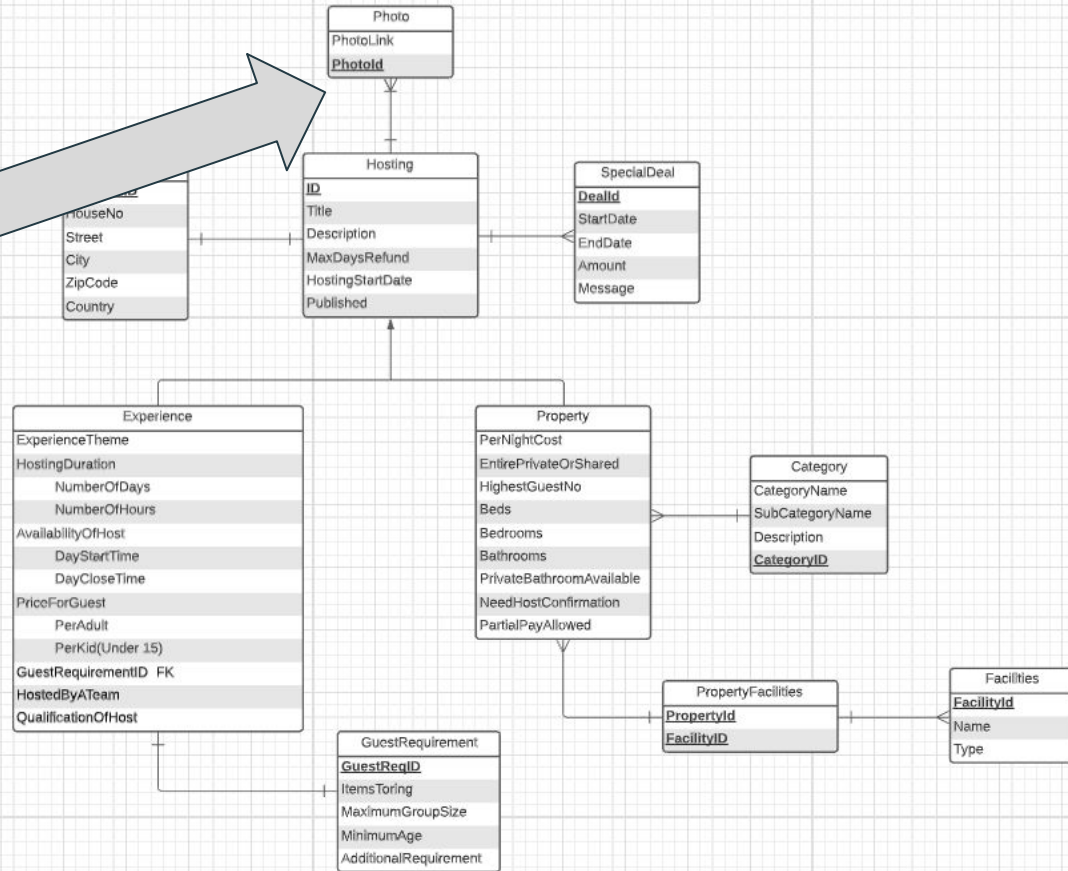
# Hosting

Location table consists of the attributes where the hosting is being done



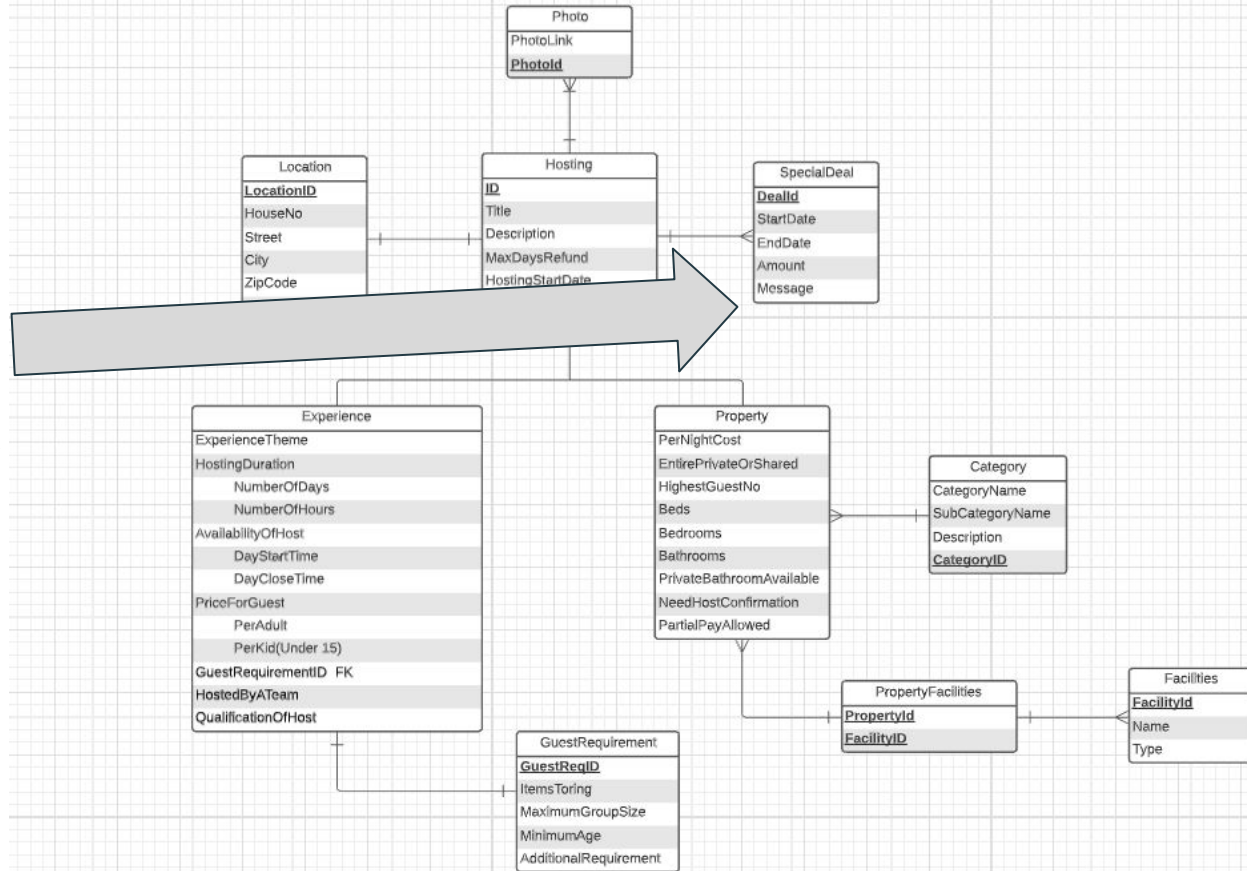
# Hosting

As usual, any photos associated with the advertisements of a hosting plan will be saved as links in database.



# Hosting

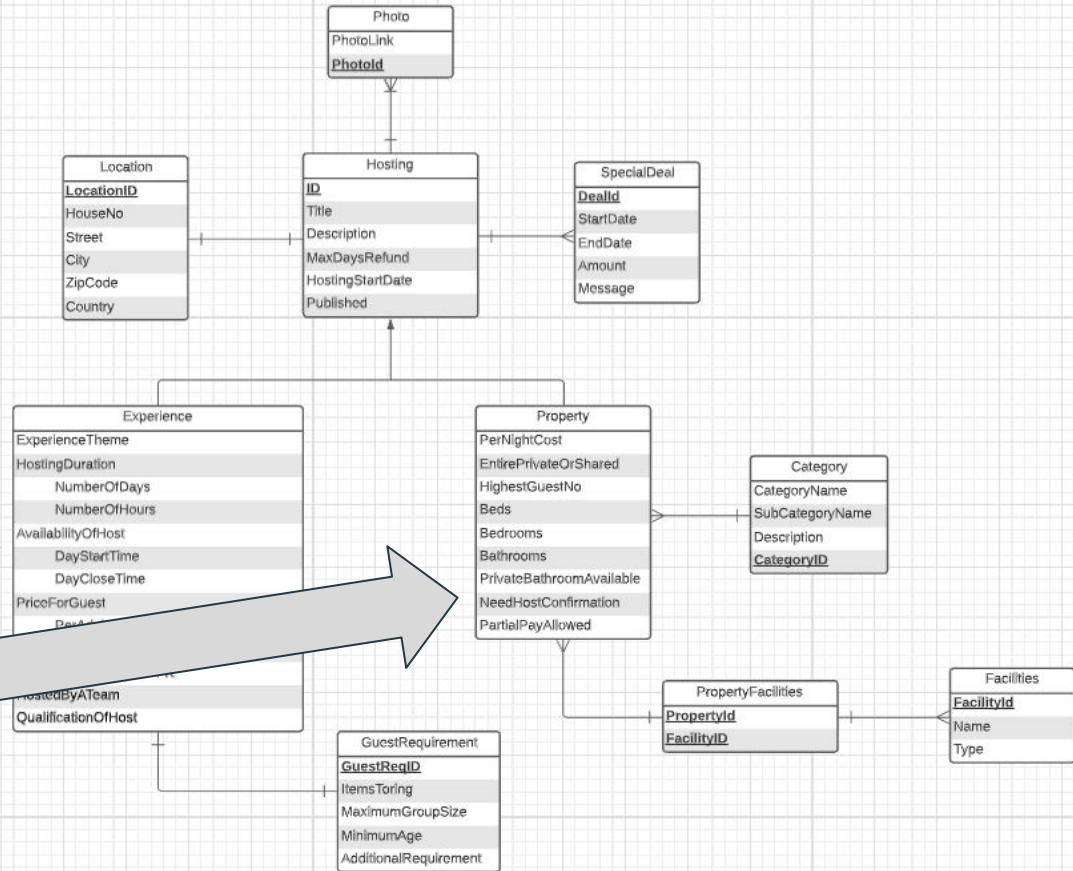
Host can offer discounts based on bookings on specific time intervals



# Hosting

There are two types of hosting:

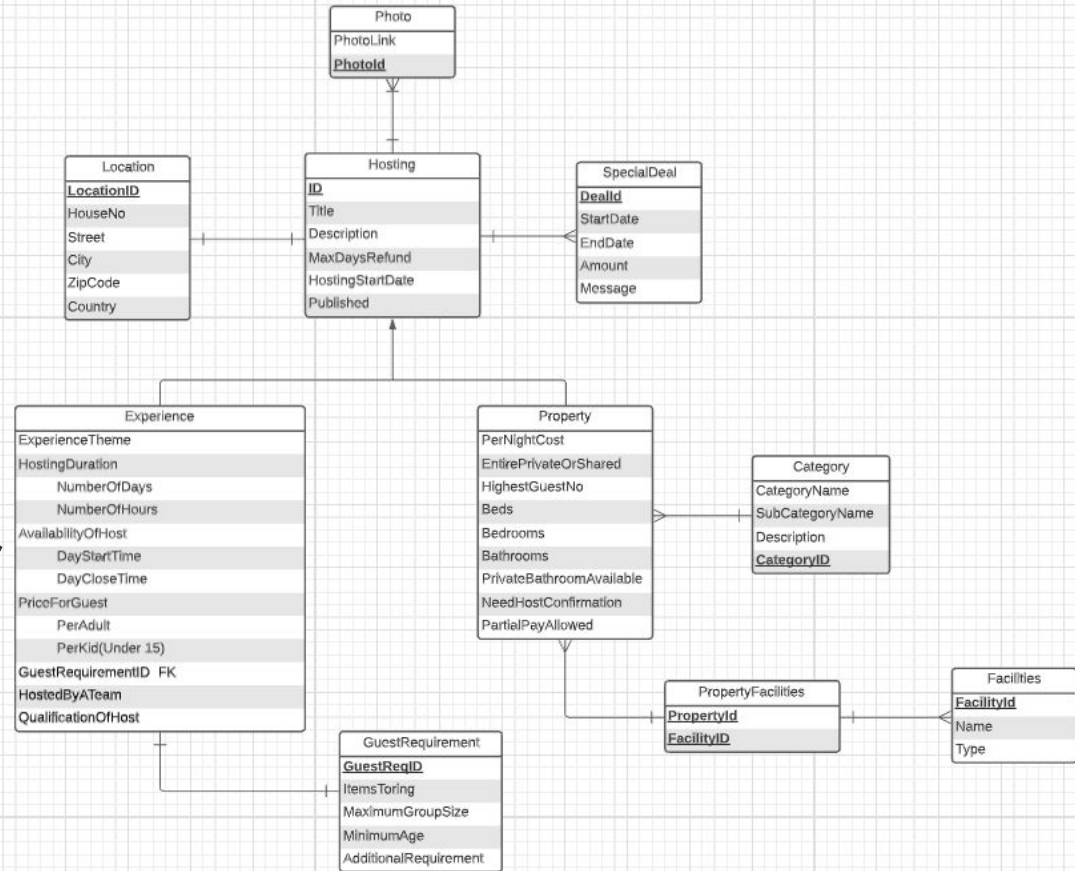
- 1) Experience
- 2) Property



# Hosting

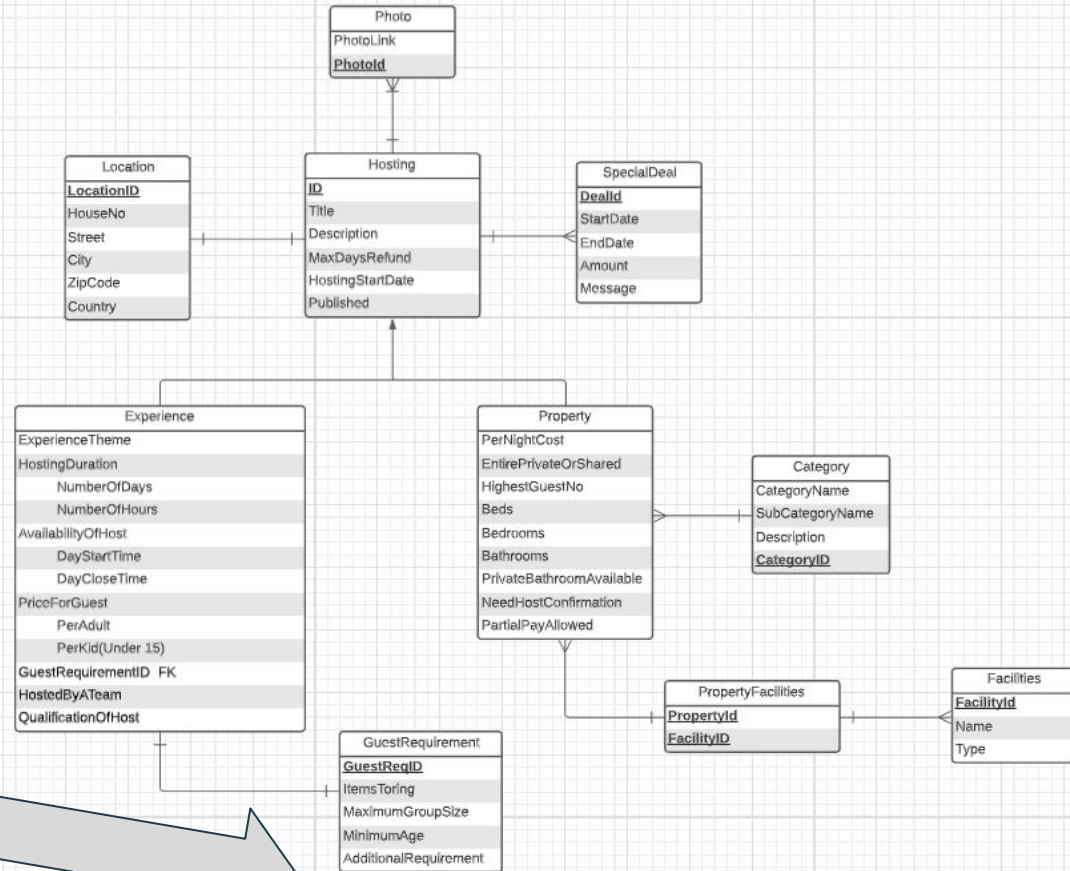
Experience hosting includes providing tour guides for a specific amount of time to tour any type of place like zoos, music theatres, museums etc.

Information like pricing to guide adults or children, start and end time of tours are also included





# Hosting

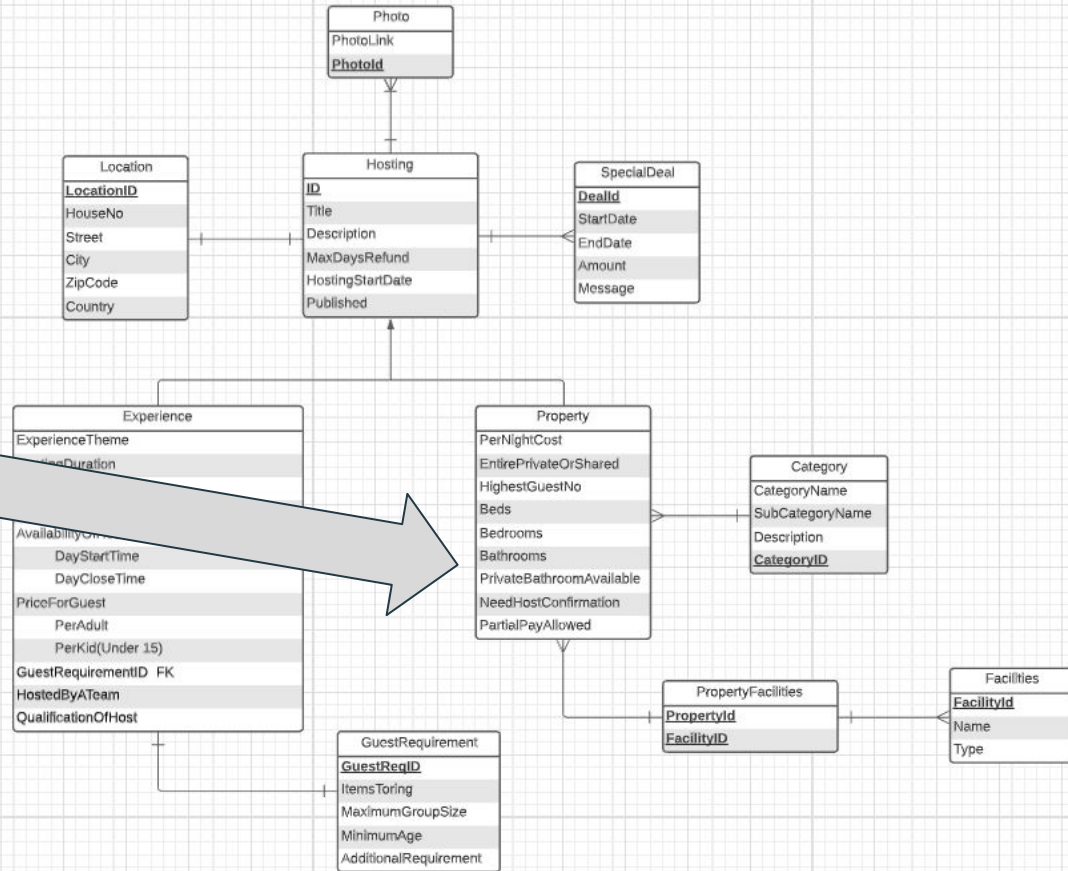


Some tours might also require extra items or information such as trekking shoes (for hiking mountains), extra people to assist the tourists and count of total people in group etc.

# Hosting

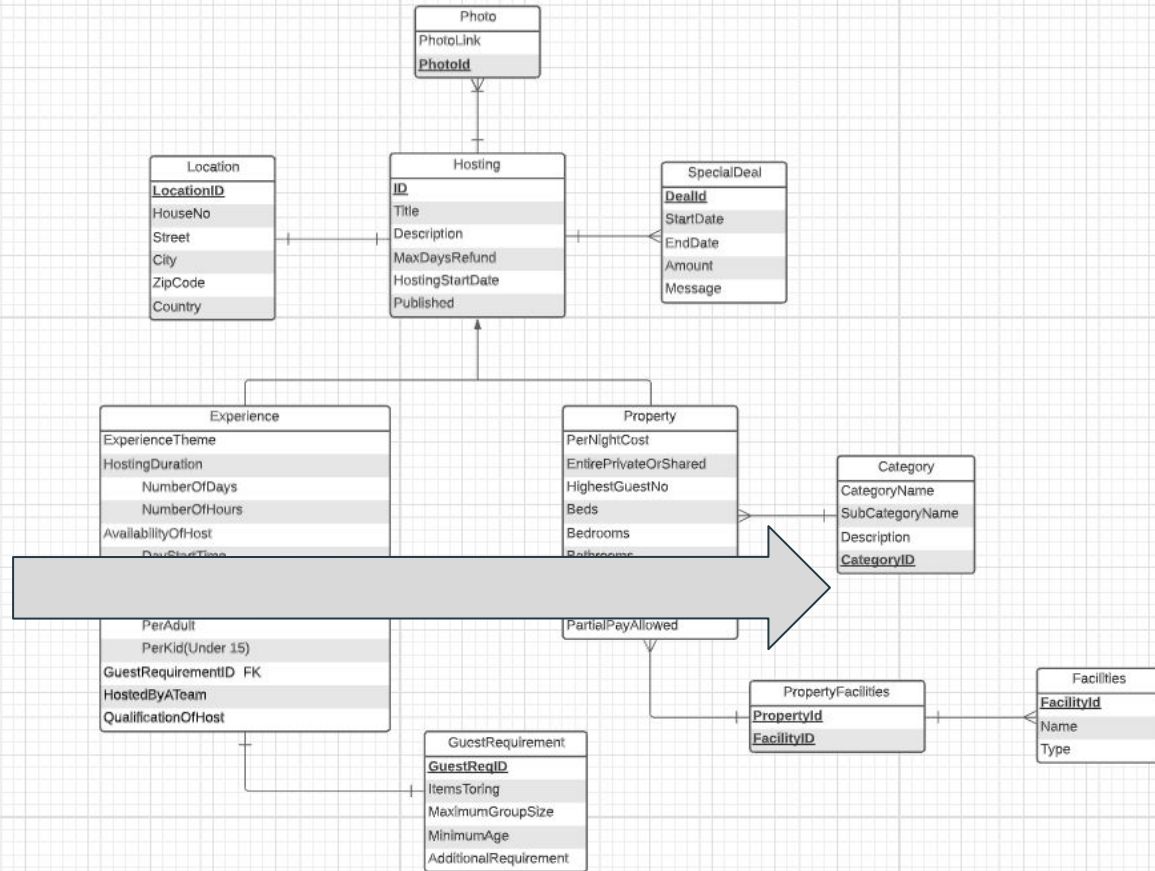
Property hosting includes hosting physical properties.

All necessary information and specifications of the rooms and facilities are stored in this table



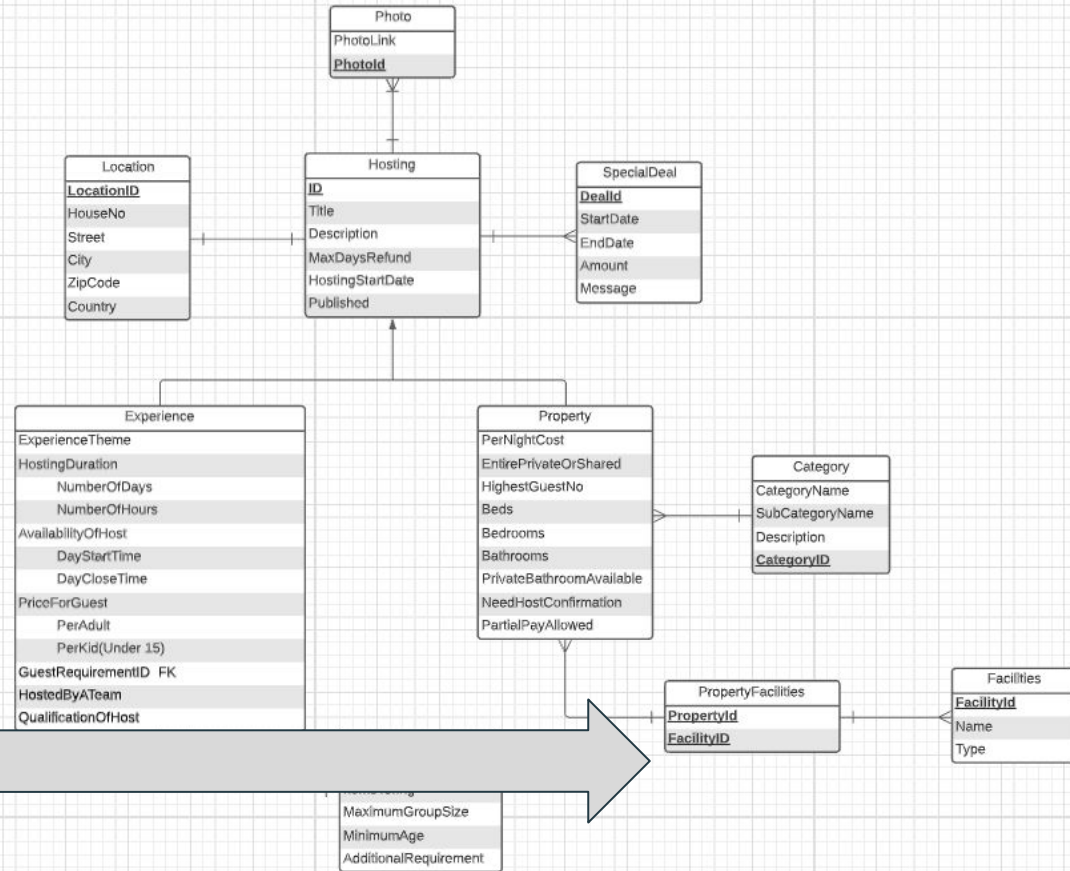


# Hosting



These types of physical properties are categorized (such as apartments, cottages, flats etc) and the categories and subcategories are stored in this table

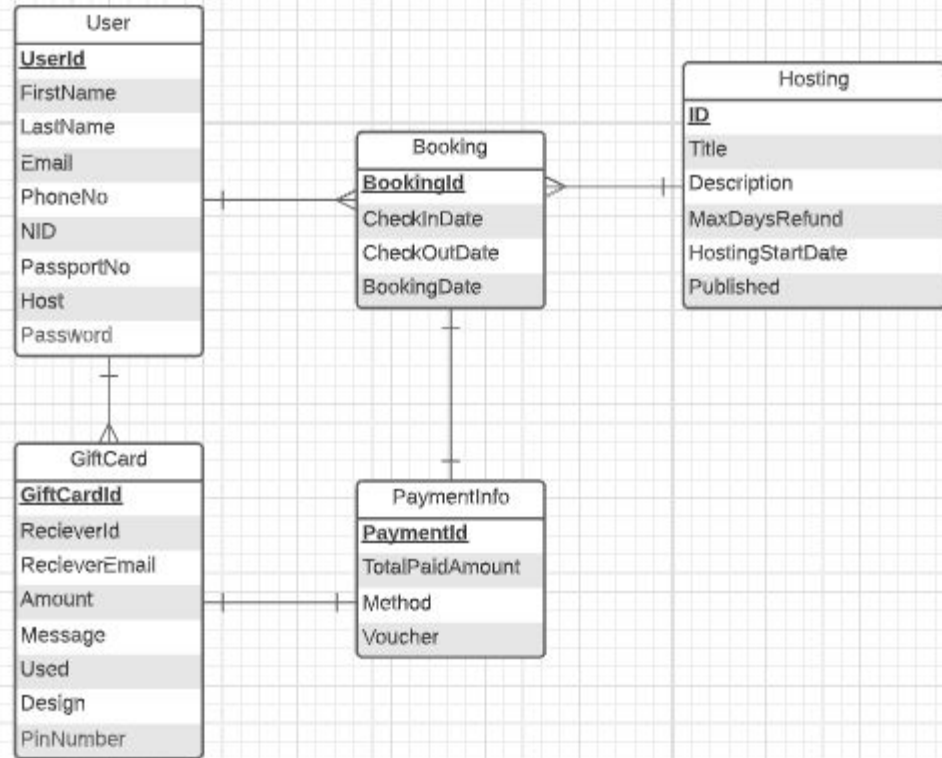
# Hosting



Some properties provide special facilities like

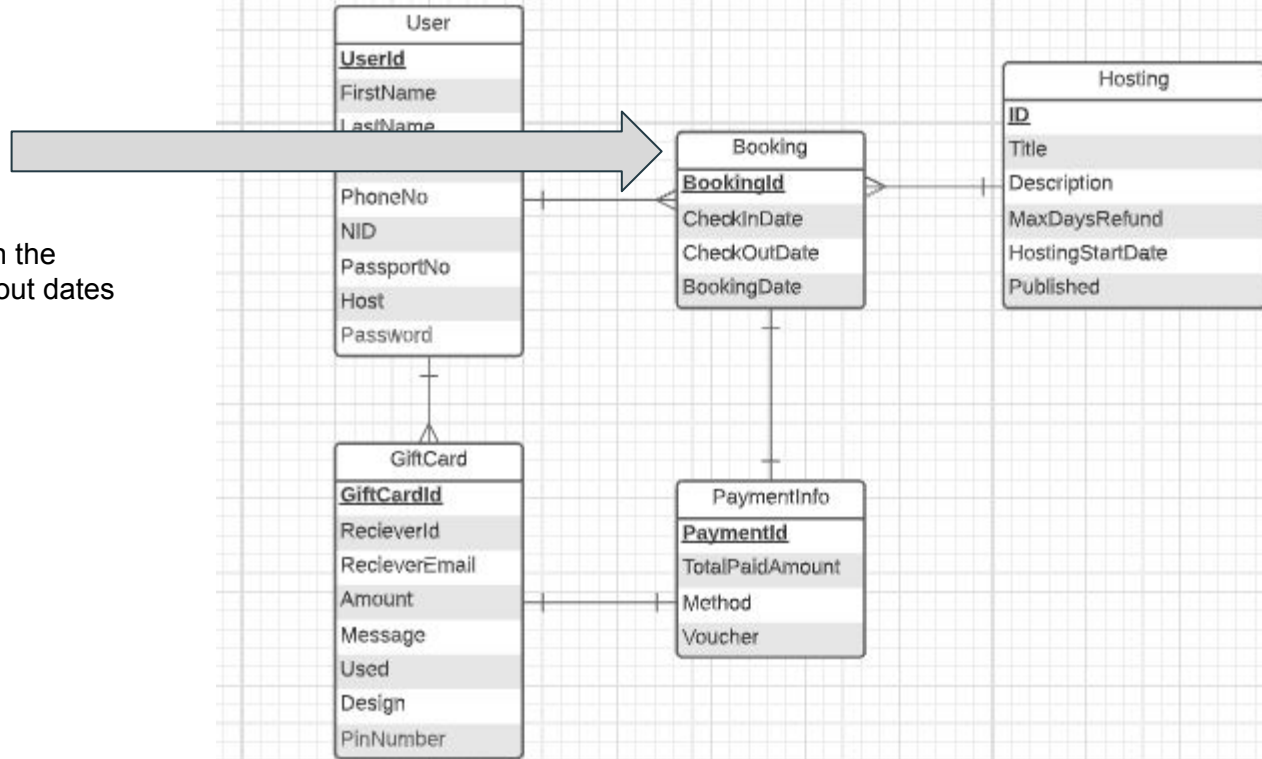
- Safety attributes
  - Fire alarms
  - First aid kits
- Guest favorites
  - Wifi
  - Mountain view
  - Pools
  - Balconies

# Booking Overview



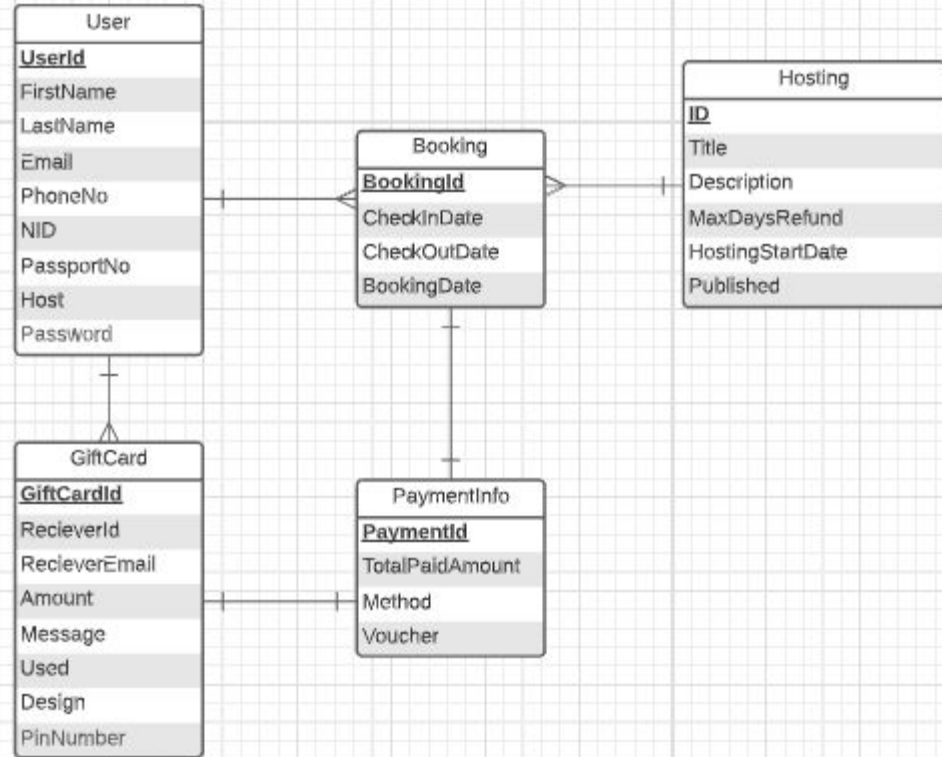
# Booking

A booking of a user will contain the associated checkin and checkout dates

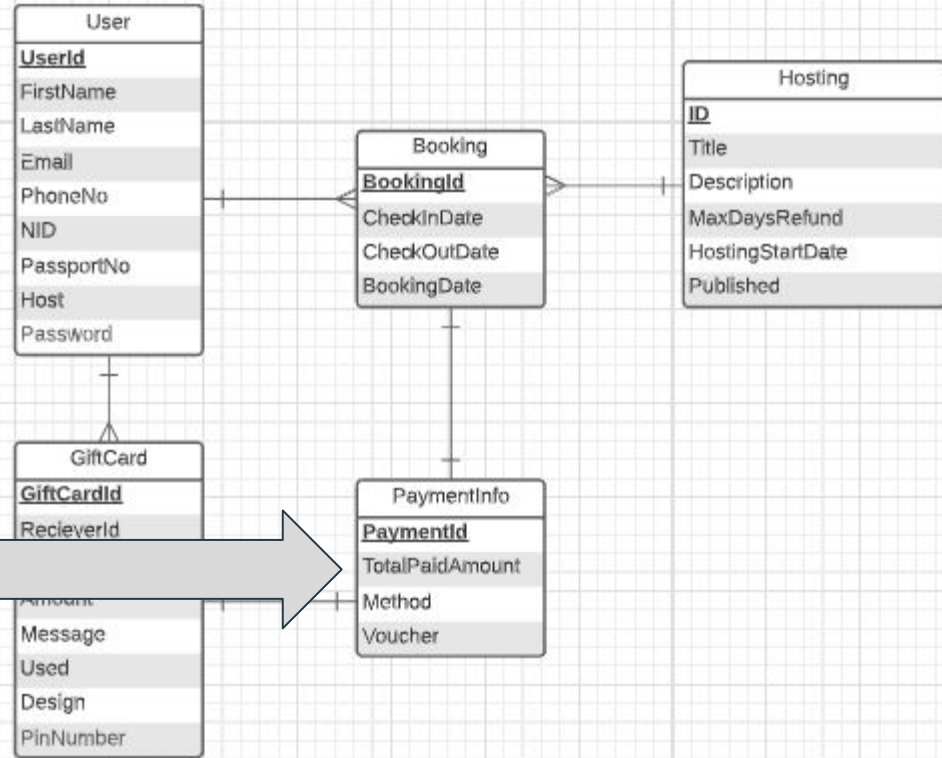


# Booking

Gift cards can reduce the amount payable for a customer

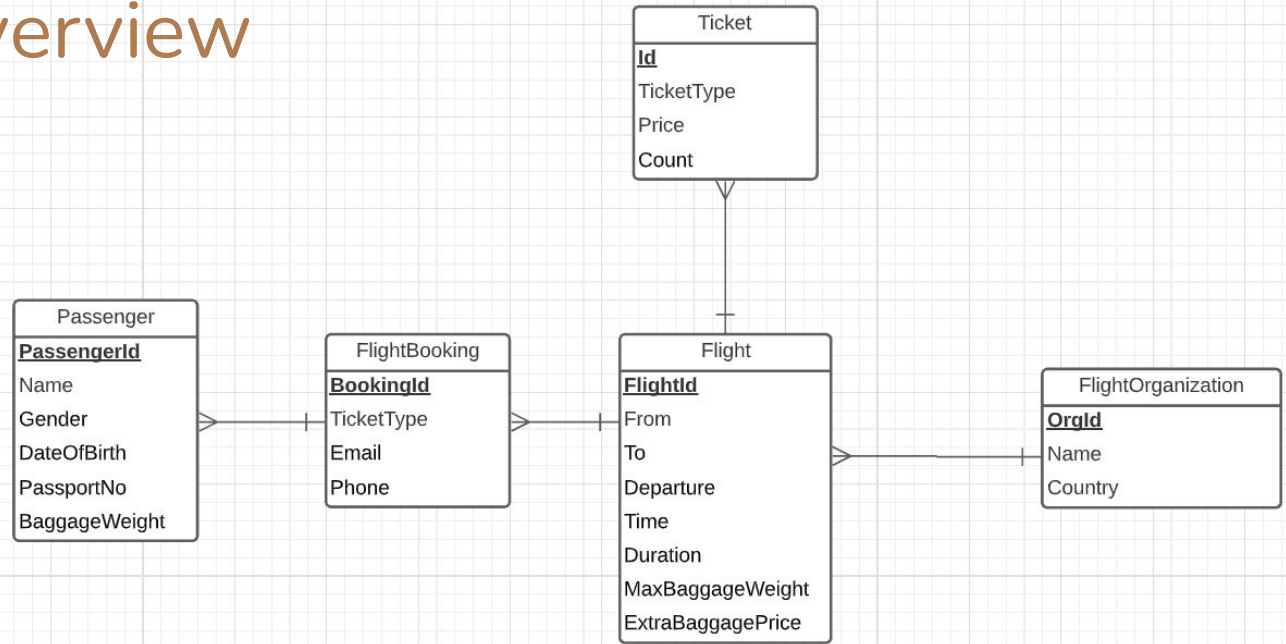


# Booking



Users can pay through cash/  
card/ fintech facilities like paypal

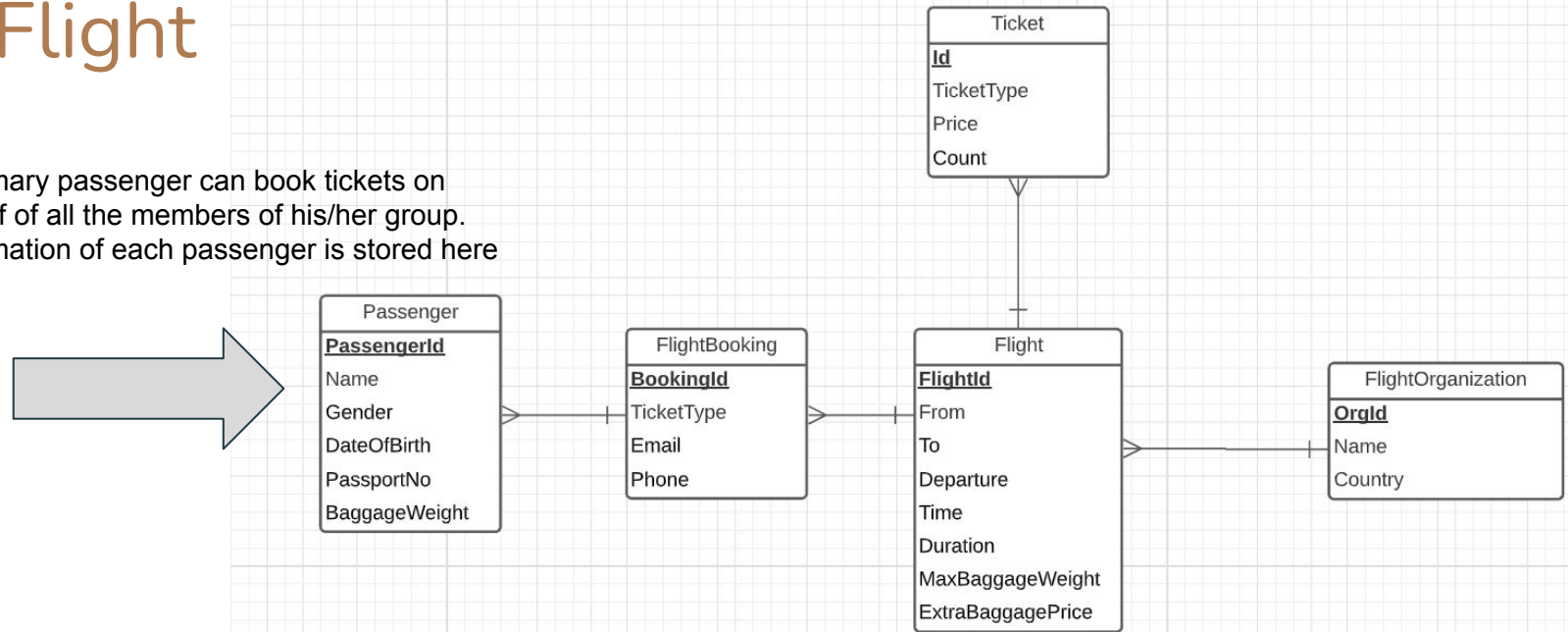
# Flight Overview



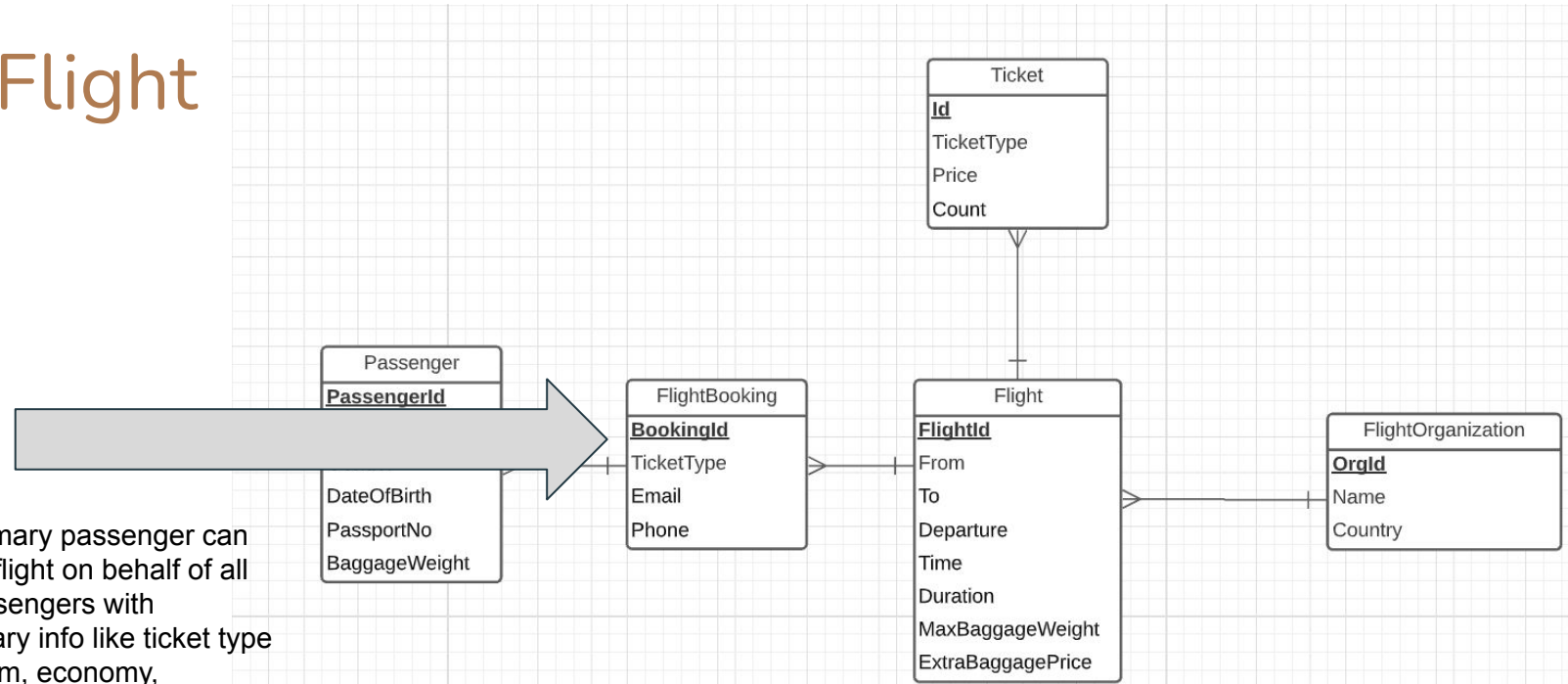


# Flight

A primary passenger can book tickets on behalf of all the members of his/her group. Information of each passenger is stored here



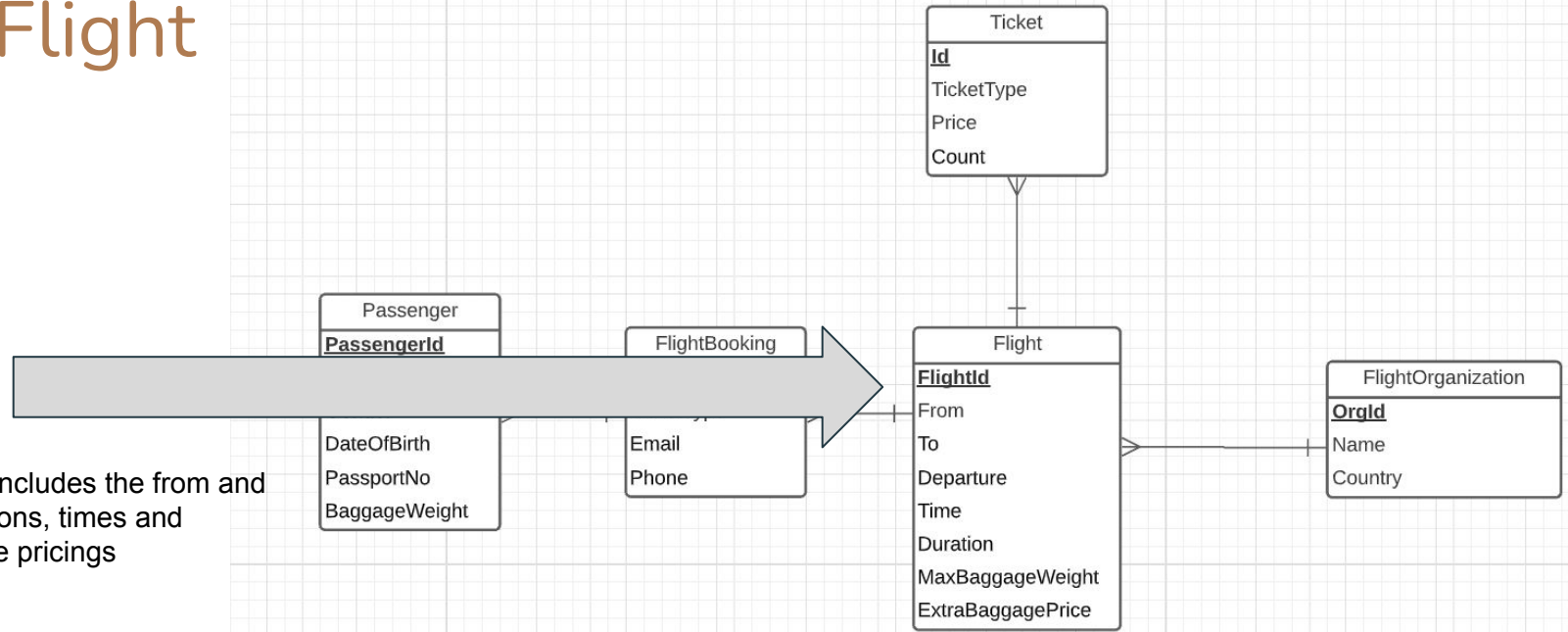
# Flight



The primary passenger can book a flight on behalf of all the passengers with necessary info like ticket type (premium, economy, business) and the primary passenger's contact info

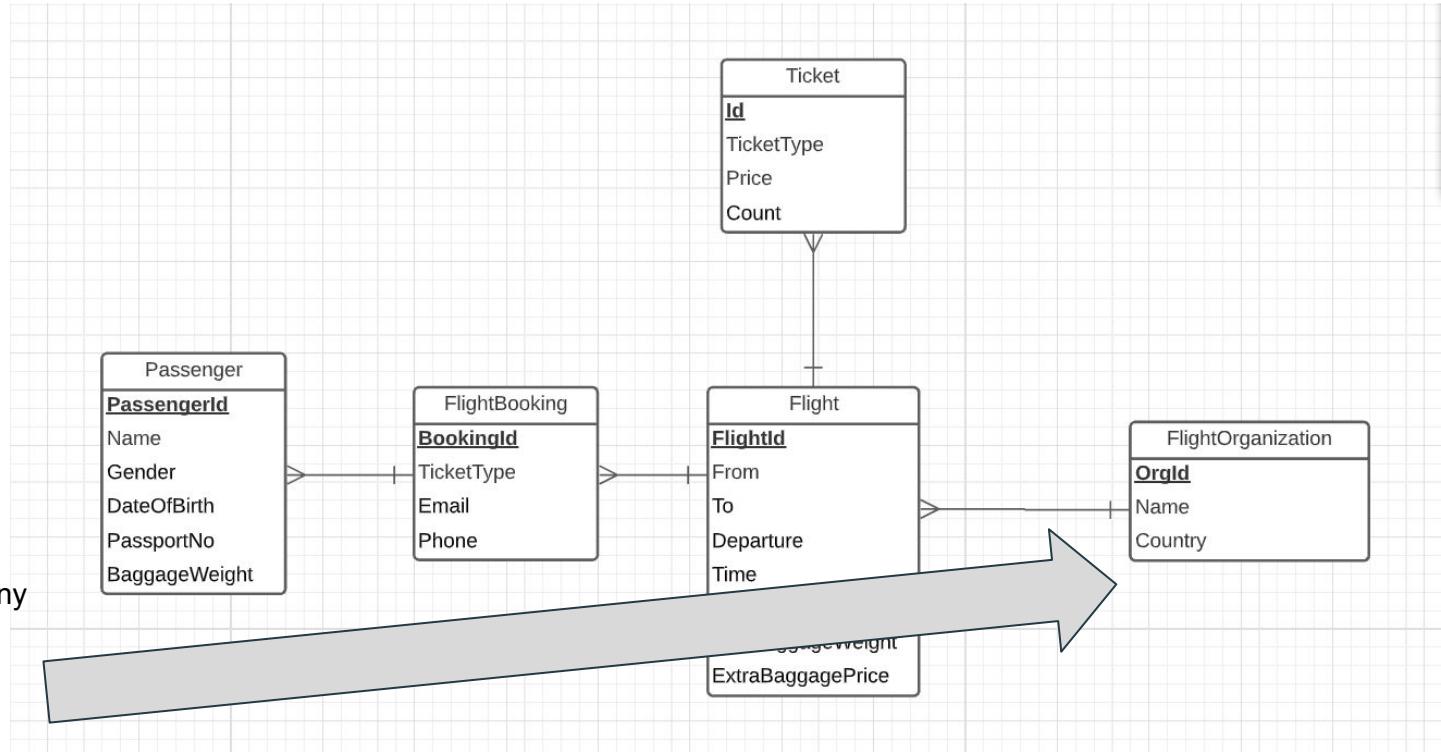
# Flight

A flight includes the from and to locations, times and baggage pricings



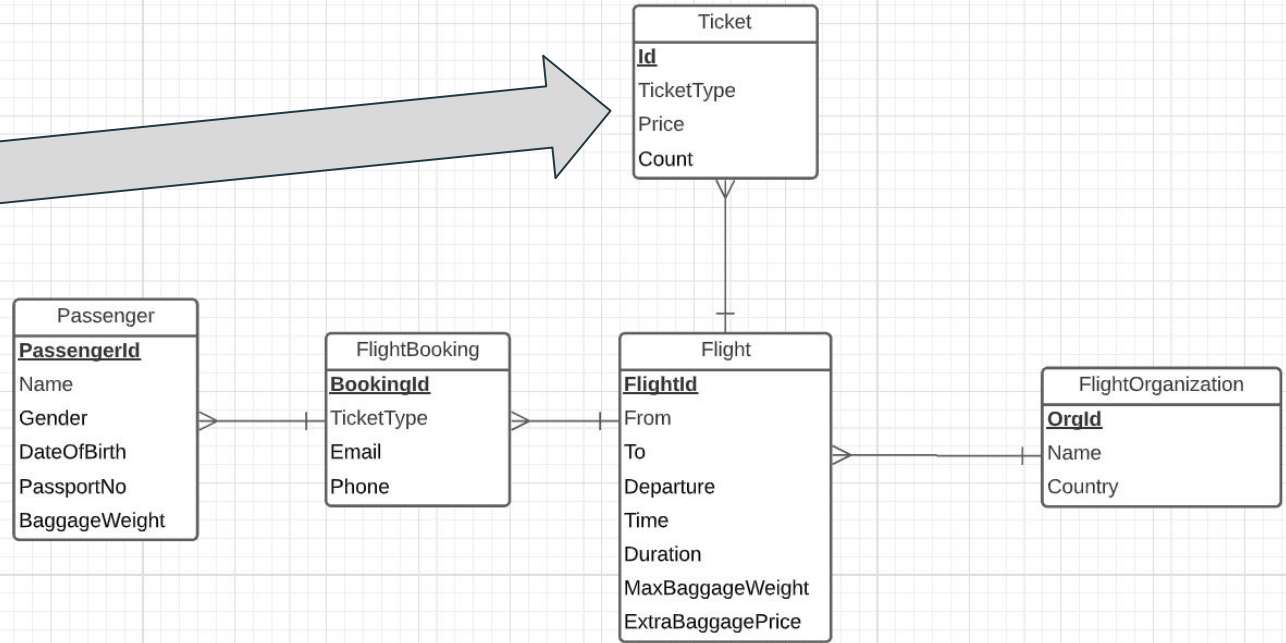
# Flight

A flight is conducted by a flight organization company (e.g. Bangladesh Biman)

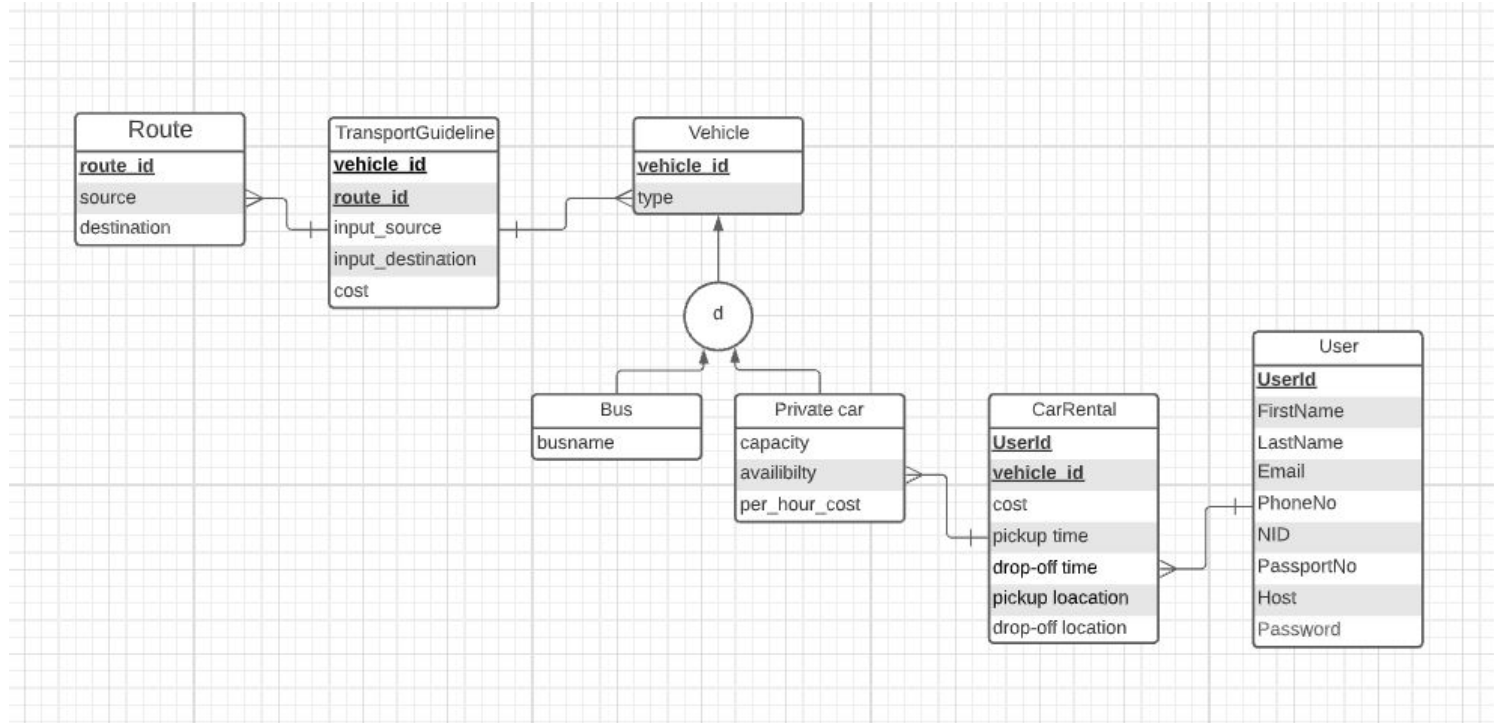


# Flight

The available types of tickets and their pricings for a specific flight is stored in this entity

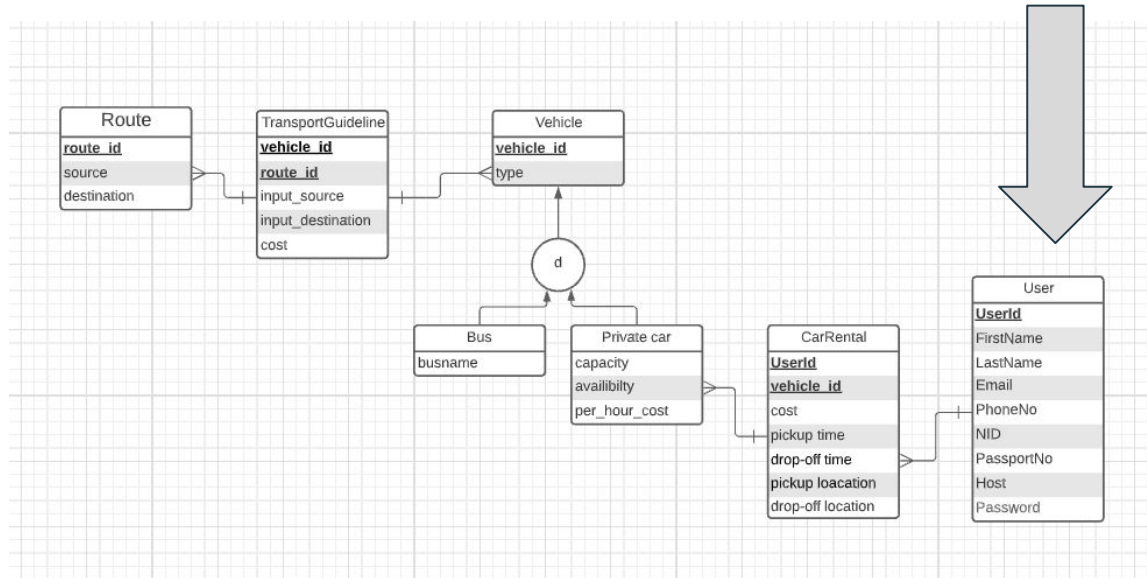


# Transport Overview



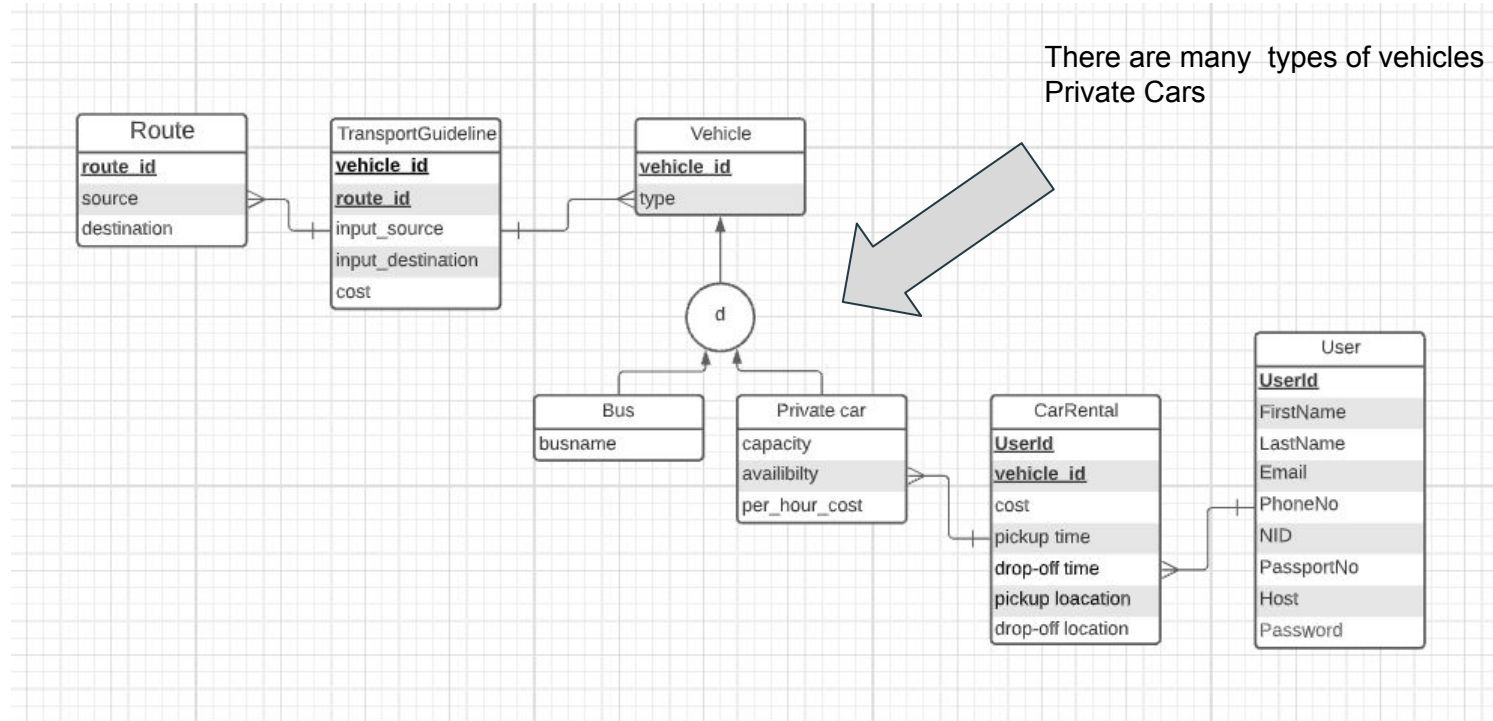
# Transport

A user can rent a car by specifying times, locations and cost

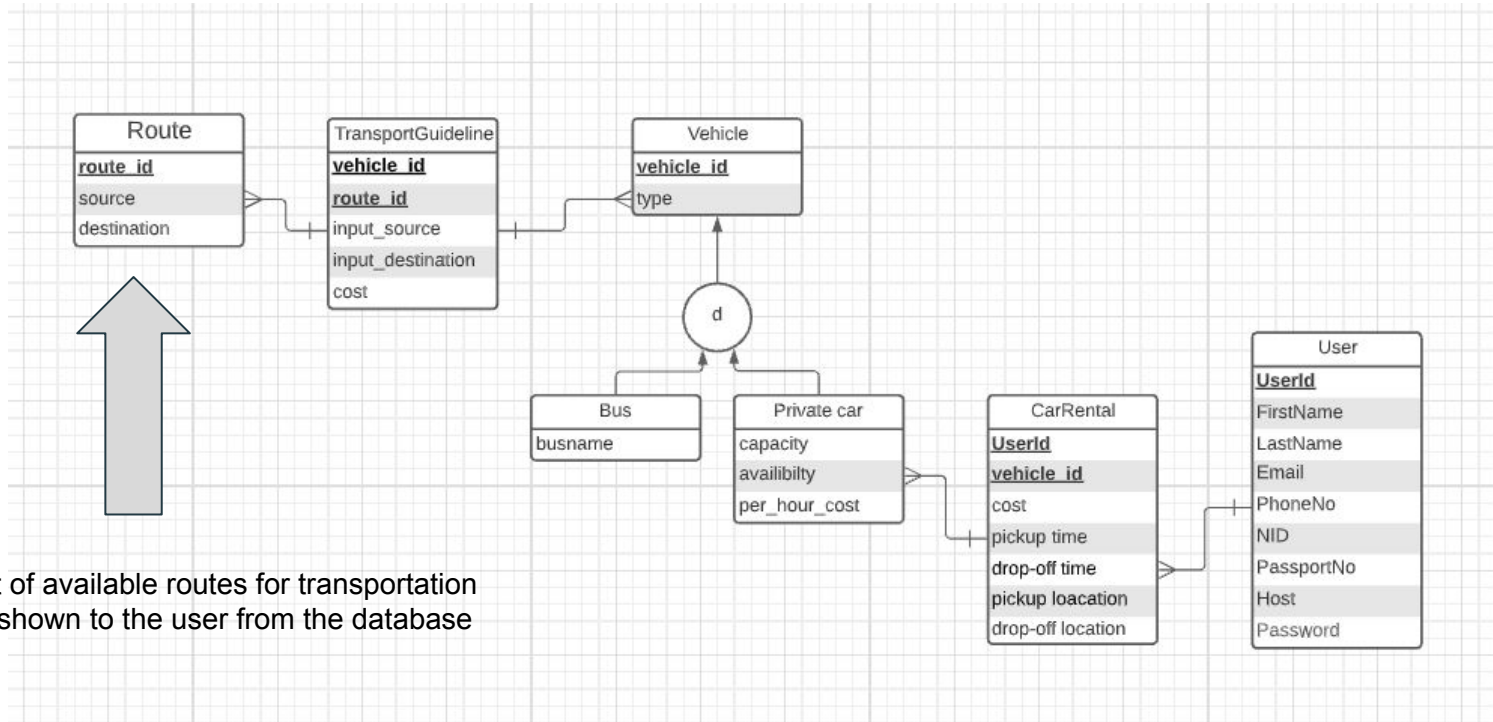




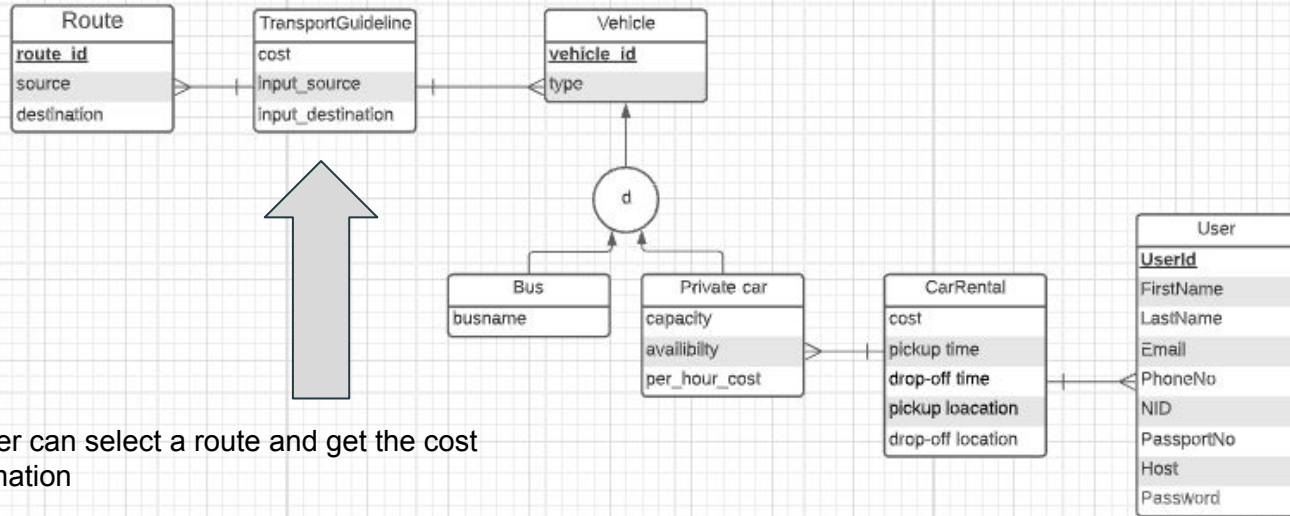
# Transport



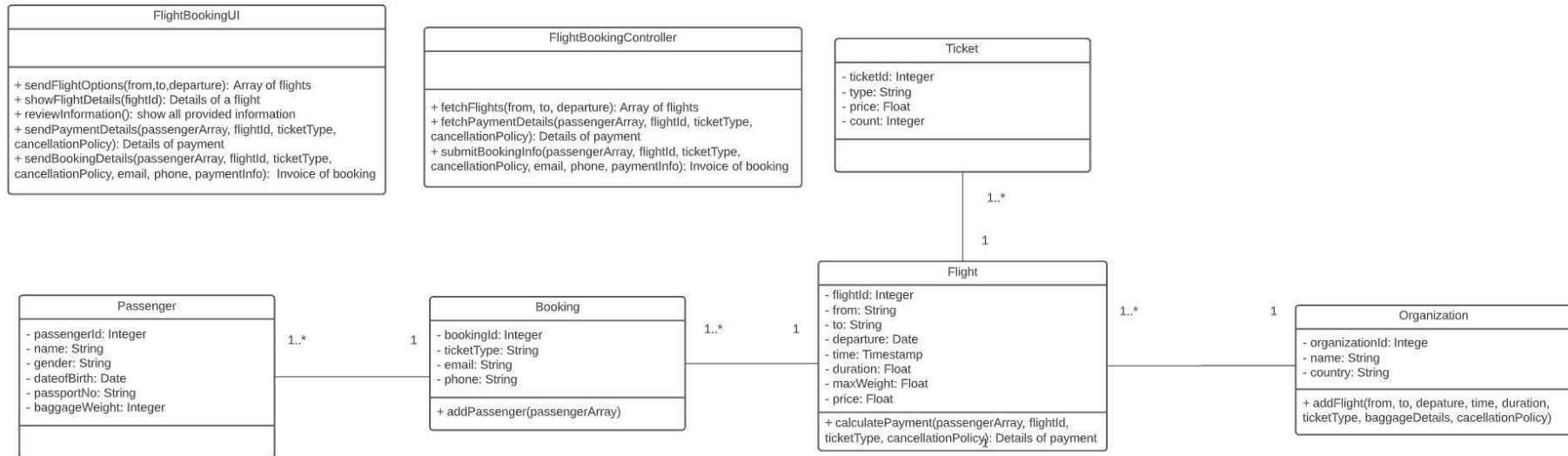
# Transport



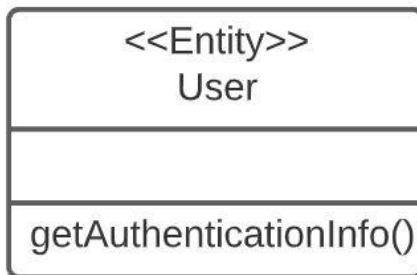
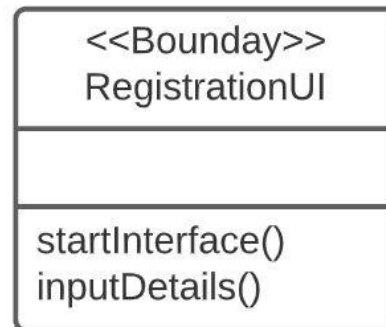
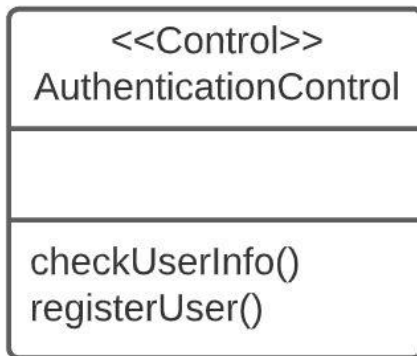
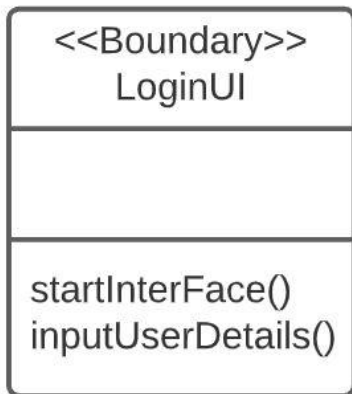
# Transport



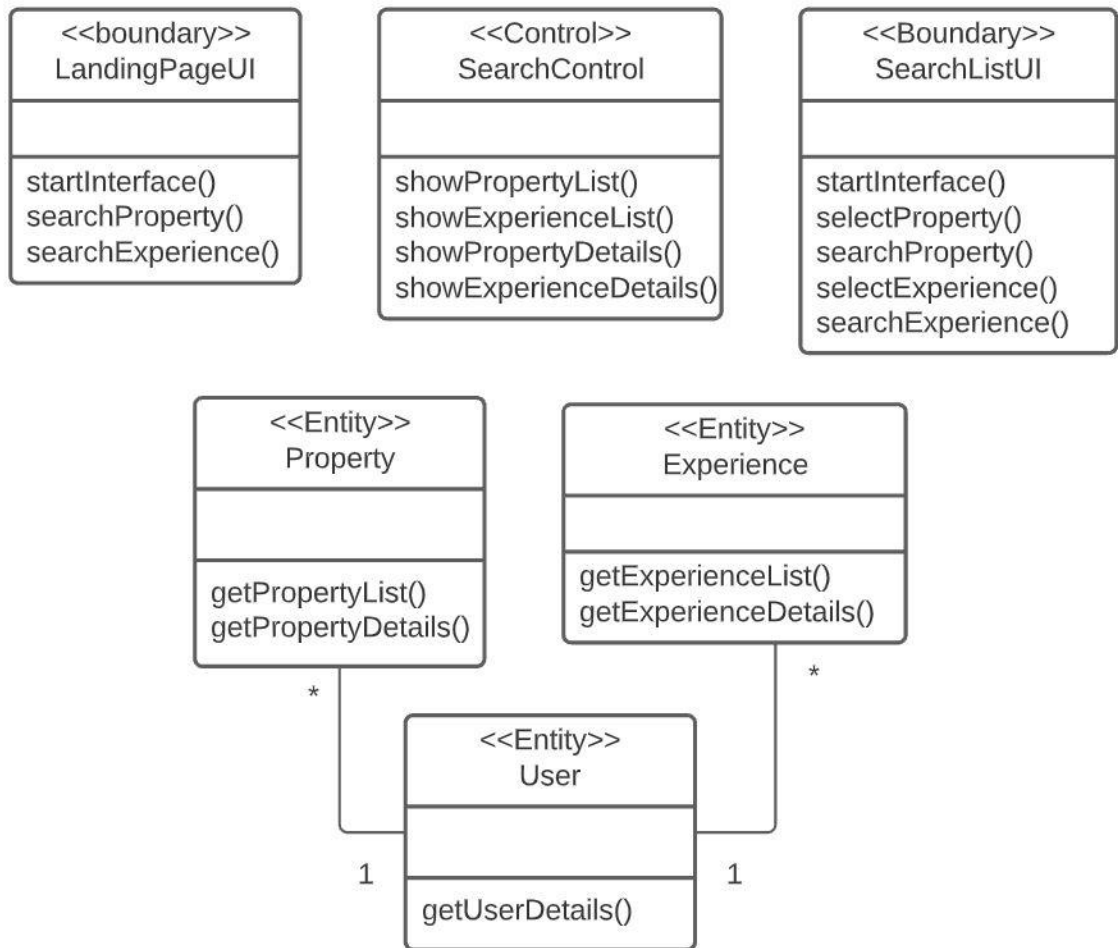
# Flight Booking



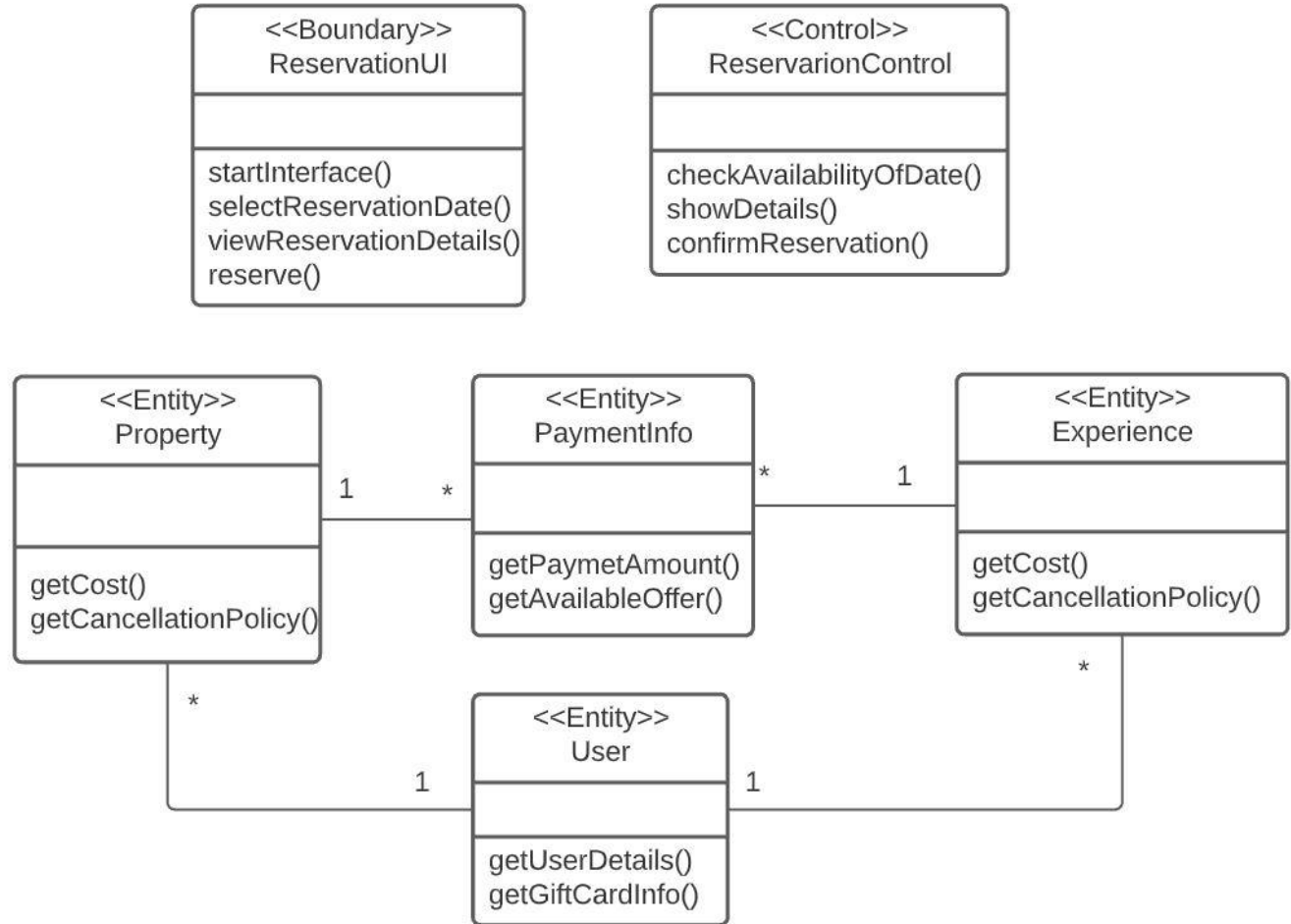
# Login/Register



# Search System

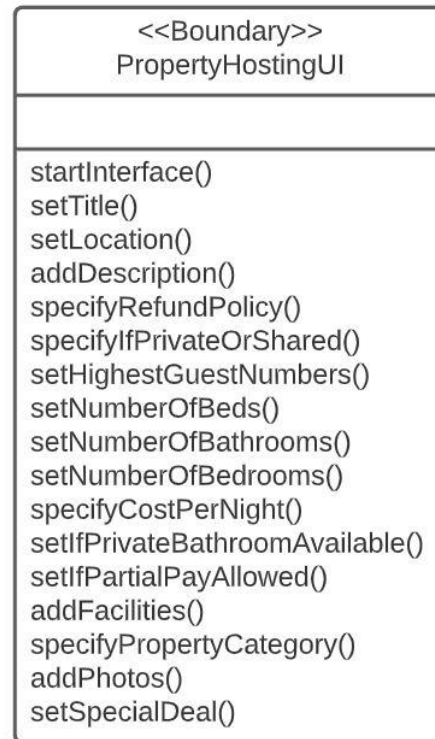
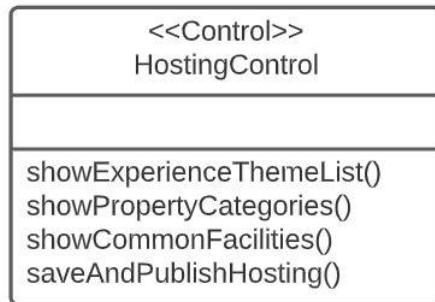
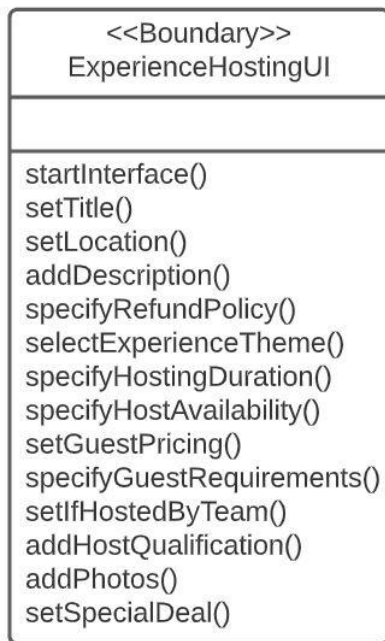


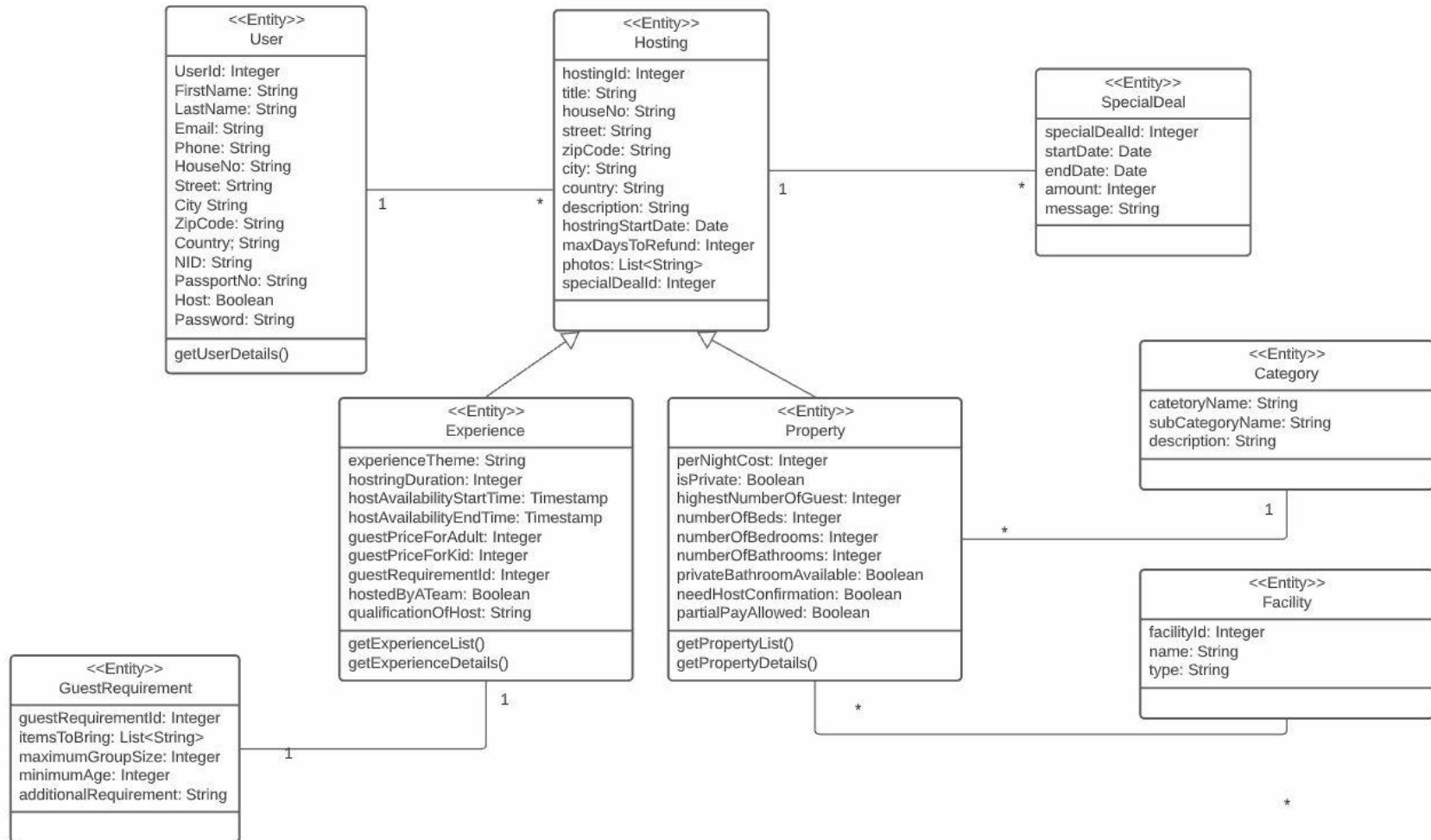
# Reservation





# Hosting





# Car Rental

<<Boundary>>  
CarRentalUI

startInterface()  
selectPickupLocation()  
selectDropOffLocation()  
selectPickupTime()  
selectDropOffTime()  
viewRentDetails()  
rent()

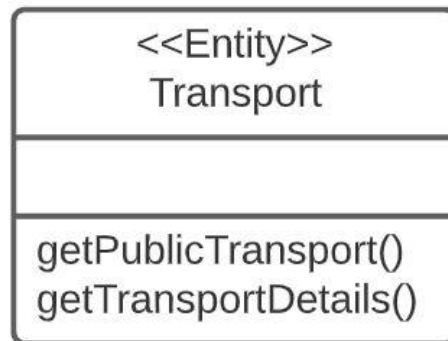
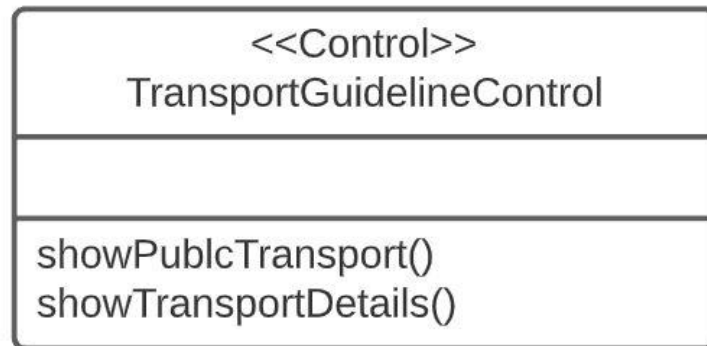
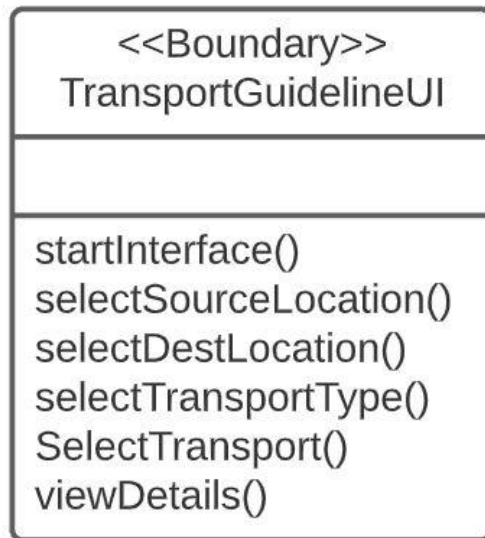
<<Control>>  
CarRentalControl

checkAvailabilityOfTime&Location()  
showDetails()  
showTotalCost()  
confirmRent()

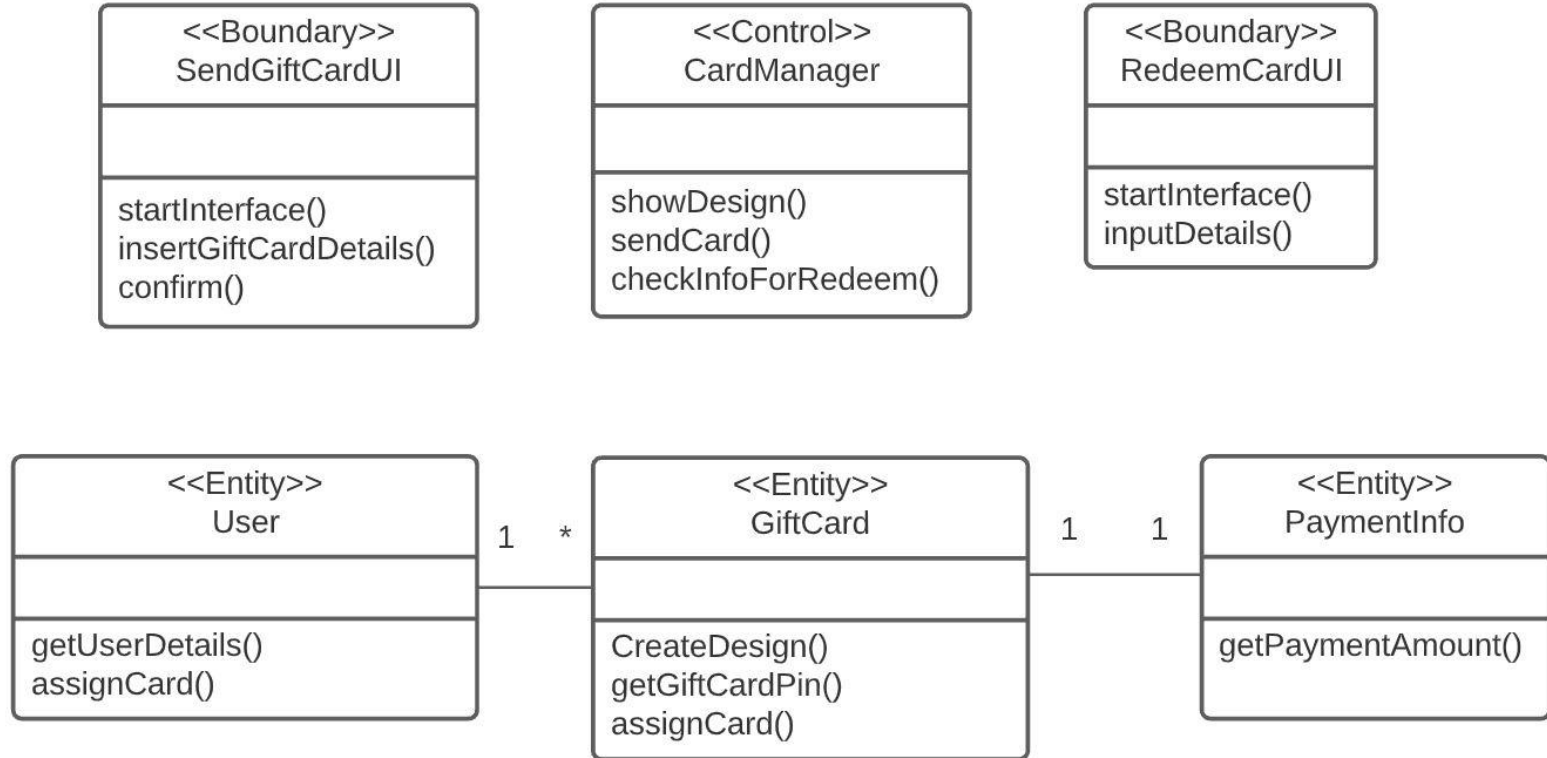
<<Entity>>  
Private car

getCarDetails()  
getAvailabilty()  
getCostPerTimeUnit()

# Transport Guideline



# GiftCard



Thank You