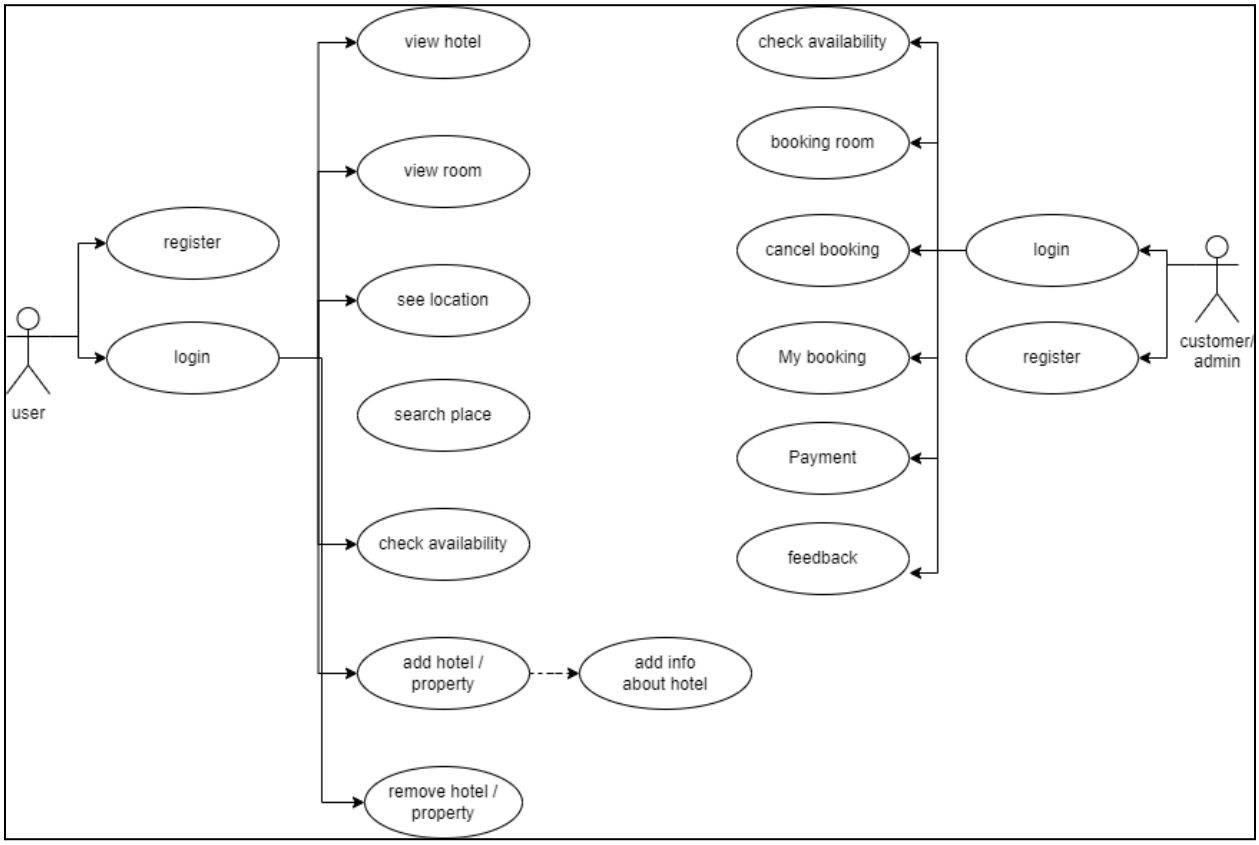
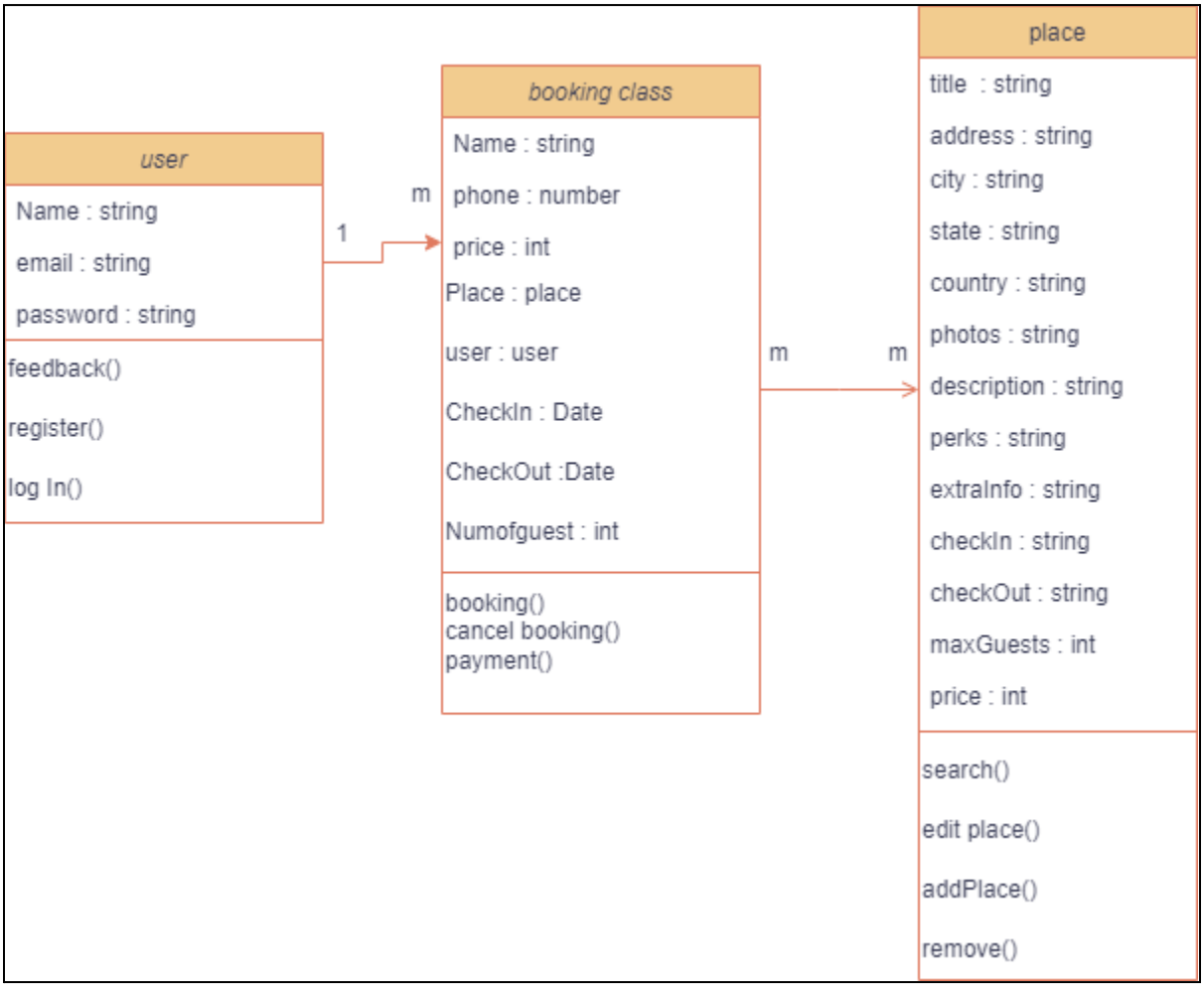
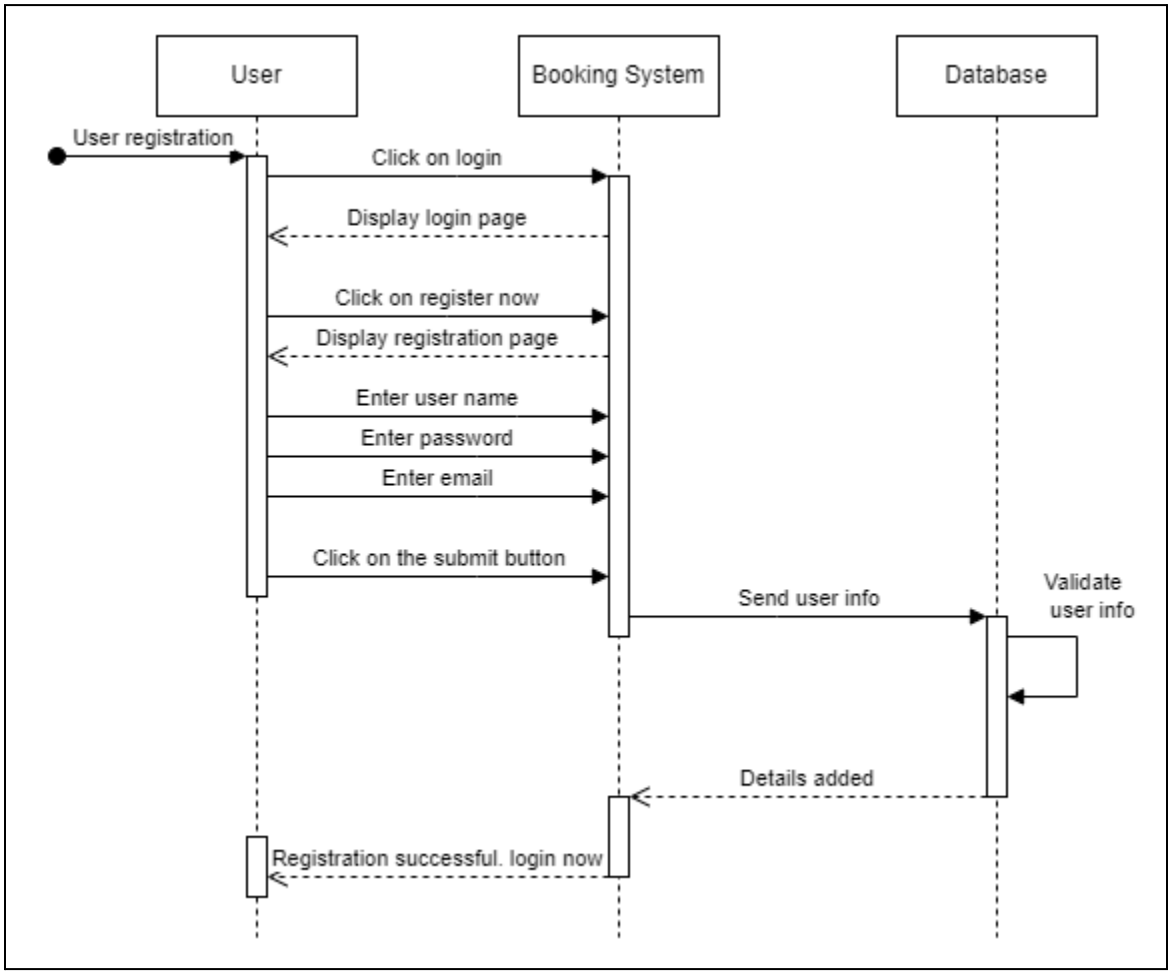
Use Case Diagram:

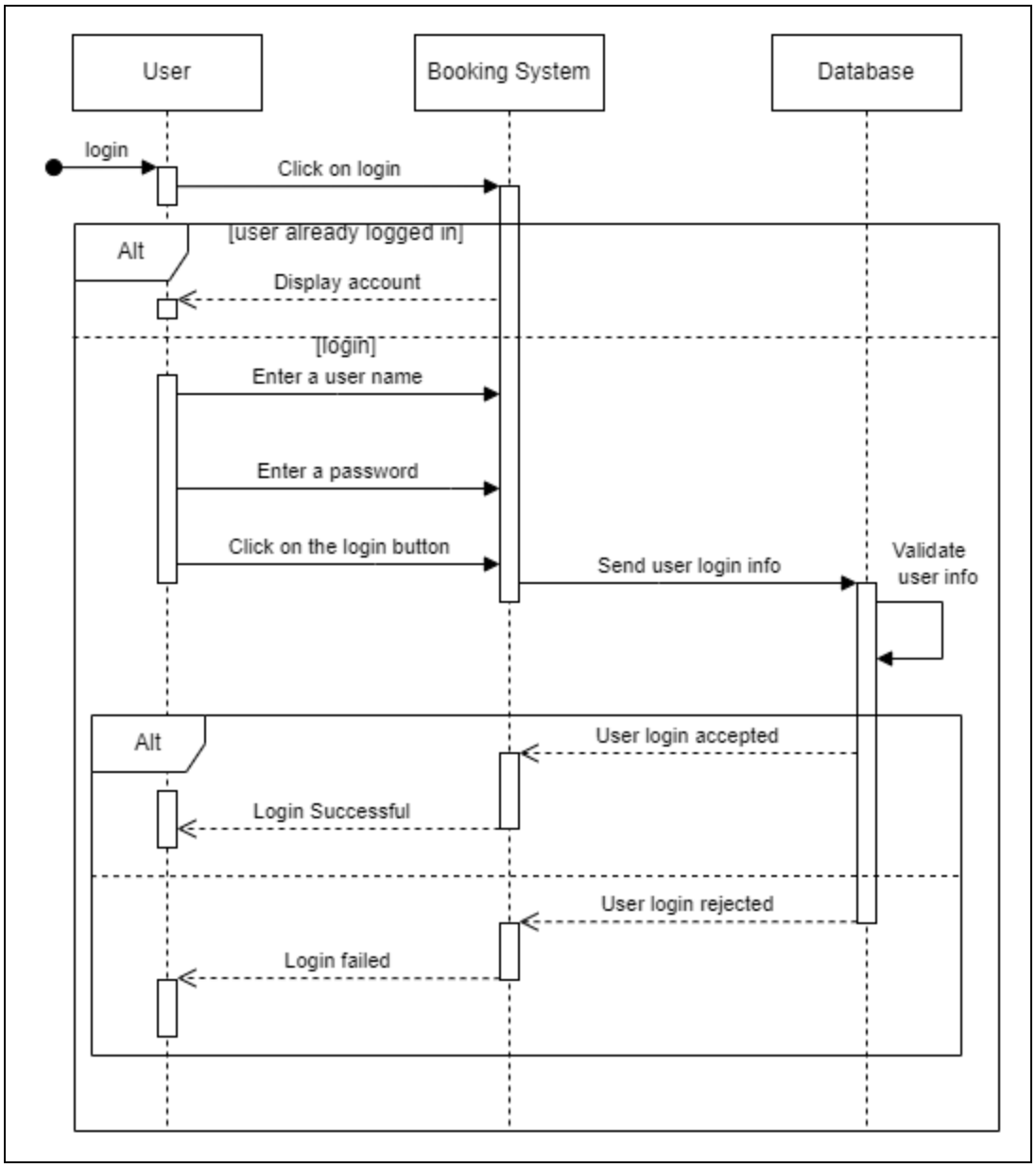


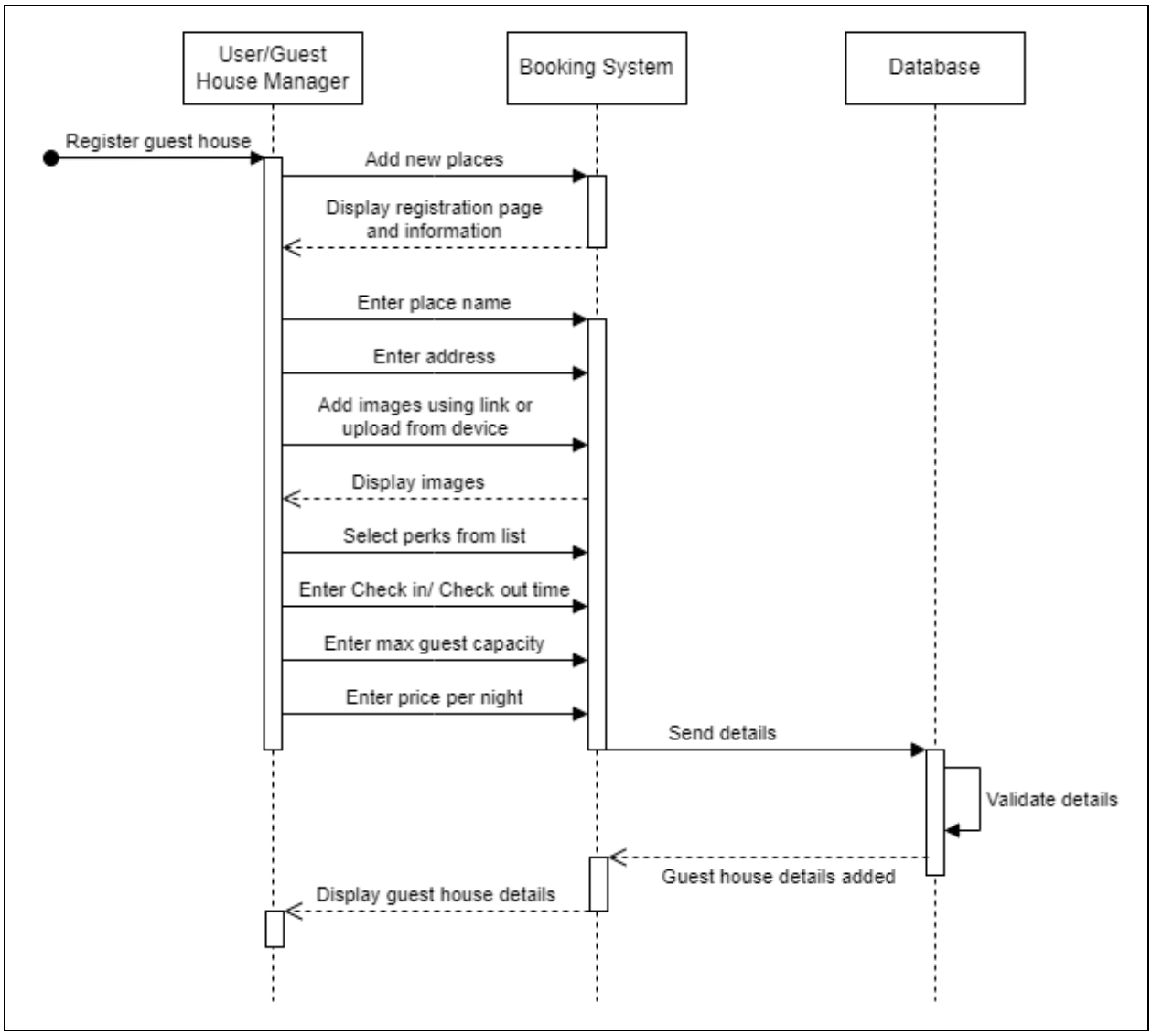
Class diagram

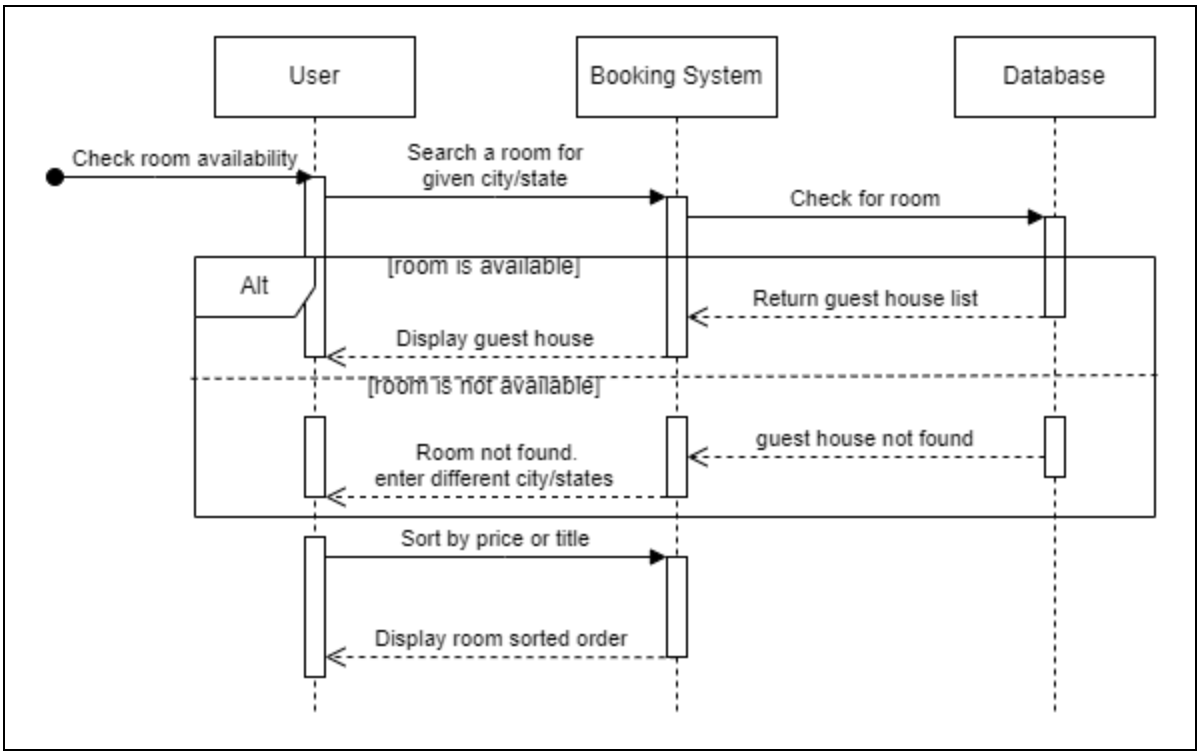


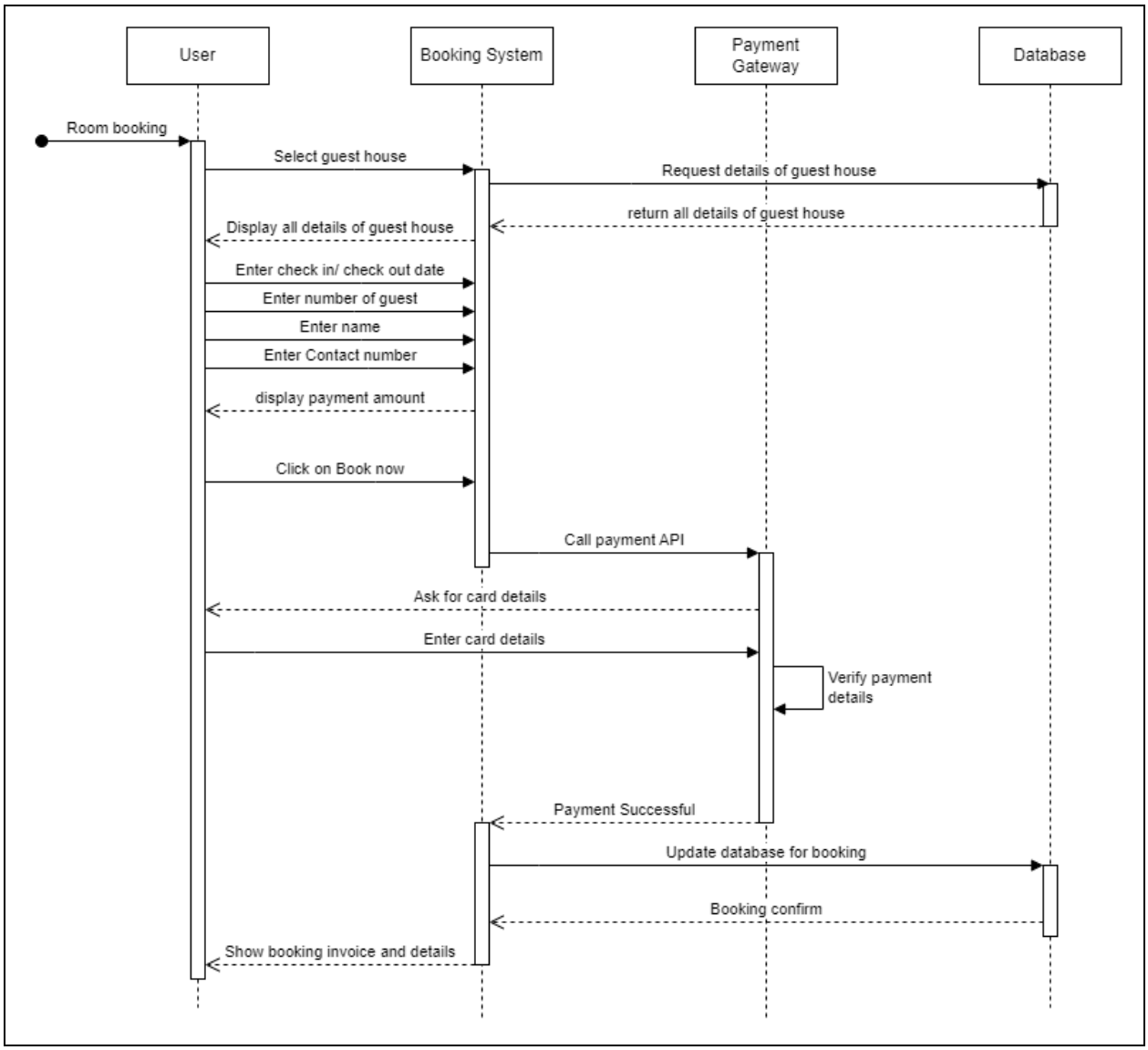
Sequence diagram

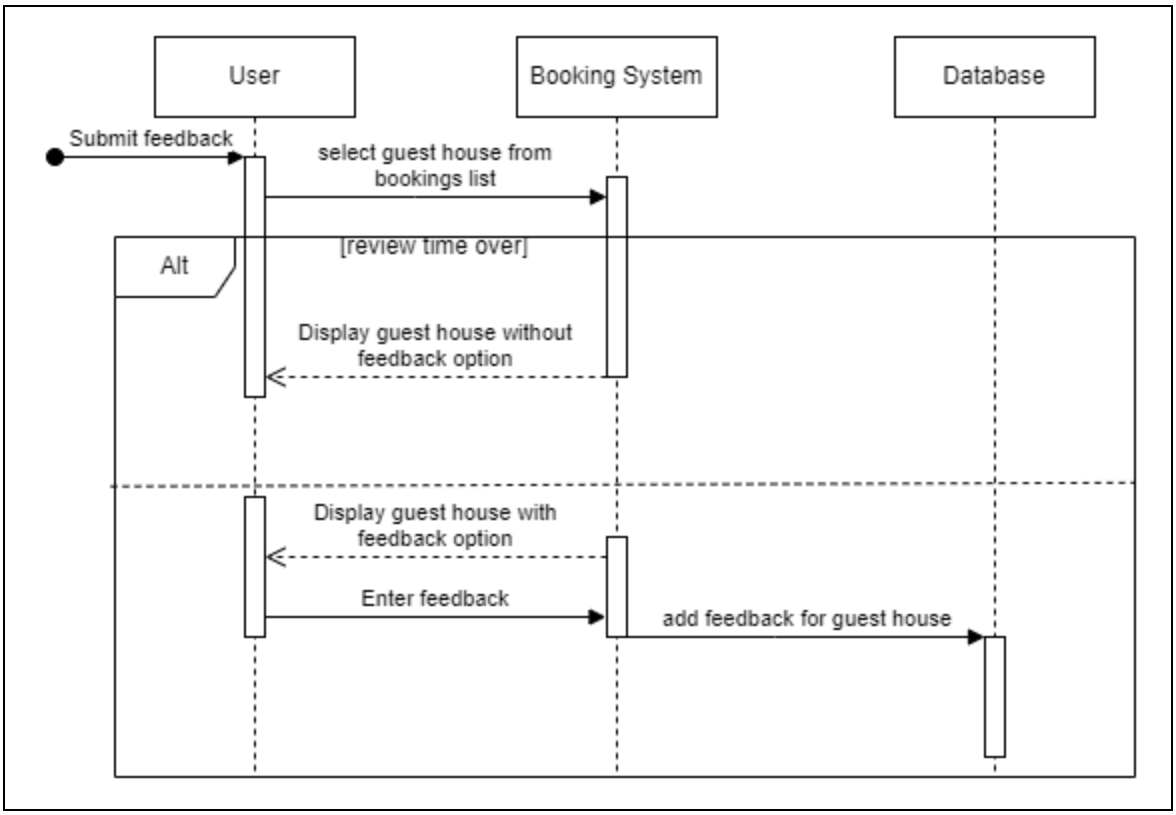



User
Booking System
Database
login
Click on login
Alt
[user already logged in]
Display account
[login]
Enter a user name
Enter a password
Click on the login button
Send user login info
Validate user info
Alt
User login accepted
Login Successful
User login rejected
Login failed


User/Guest House Manager
Booking System
Database
Register guest house
Add new places
Display registration page and information
Enter place name
Enter address
Add images using link or upload from device
Display images
Select perks from list
Enter Check in/ Check out time
Enter max guest capacity
Enter price per night
Send details
Validate details
Guest house details added
Display guest house details


User
Booking System
Database
Check room availability
Search a room for given city/state
Check for room
Alt
[room is available]
Return guest house list
Display guest house
[room is not available]
guest house not found
Room not found. enter different city/states
Sort by price or title
Display room sorted order


User
Booking System
Payment Gateway
Database
Room booking
Select guest house
Request details of guest house
return all details of guest house
Display all details of guest house
Enter check in/ check out date
Enter number of guest
Enter name
Enter Contact number
display payment amount
Click on Book now
Call payment API
Ask for card details
Enter card details
Verify payment details
Payment Successful
Update database for booking
Booking confirm
Show booking invoice and details


User
Booking System
Database
Submit feedback
select guest house from bookings list
Alt
[review time over]
Display guest house without feedback option
Display guest house with feedback option
Enter feedback
add feedback for guest house