

CSE326: Information System Design Sessional

B2-Group:2

Project Name: Spacey

Group Members:

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Motivation

For this sessional, we had to implement a system following the work process of information system design, like defining different modules, analysis of requirements, how the system will look to the users, etc.

As we can see, in our country, some popular tourist spots like Cox's Bazar, Kuakata, Rangamati, etc overrun with tourists during national holidays or after some events. Admission time is also a time when the hotels around the universities are not available. As a result, people suffer much in need of accommodation. Sometimes, there are some spare spaces laying around in our house or office, sometimes we have parking space that we don't use. Some cold storages are of no use when there is nothing to store.

So, we decided to make a system that people can use to host or rent a place, whether it be a personal room, office or business place, climate-controlled storage, or garage. People can host their place for earning some extra money. And those, who visit a new place, can book a place to stay by using our system easily. Even foreigners, who want to stay with the local people to experience our day-to-day life can use our system. Overall, our system would benefit anyone who is in desperate need of space. That is why our system is called "Spacey".

Introduction

Spacey is a hosting and renting site. People can host their place for rent and others can see what places are available in a particular area. They can also see the review and filter out which properties have the highest review. They can also compare the prices of different properties available.

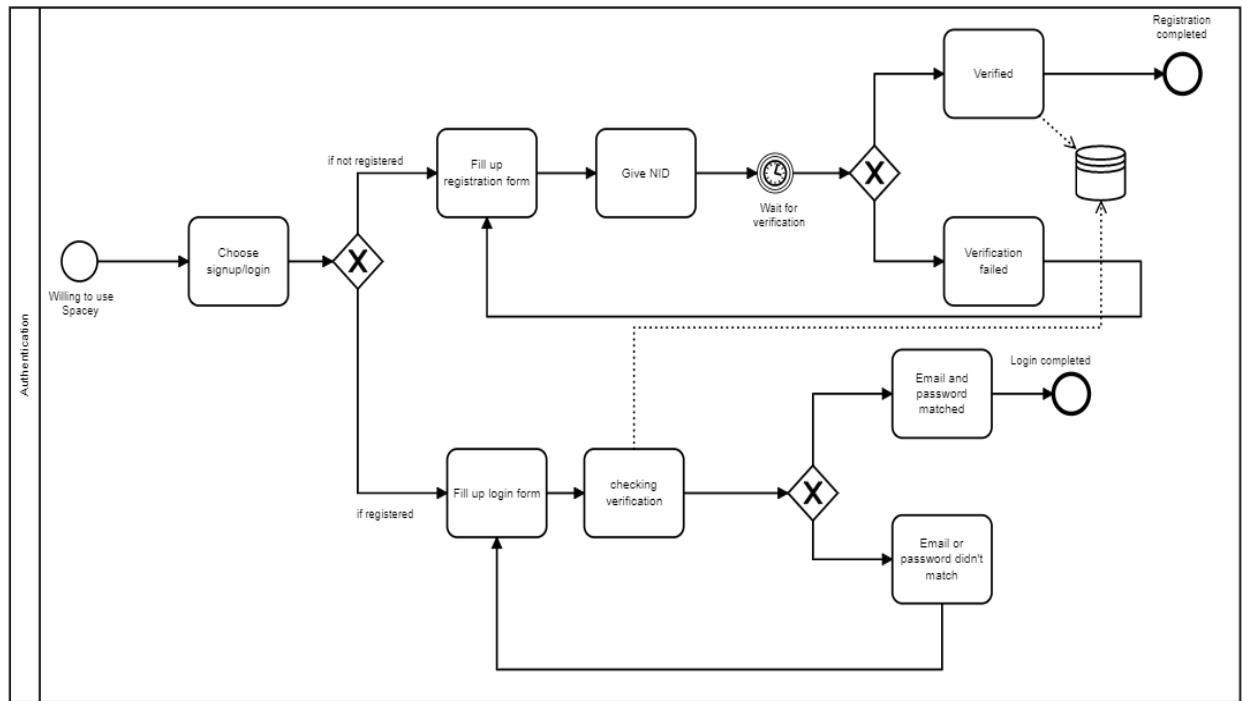
People or users who have registered in our system can both host or rent places. There are currently four types of hosting/ renting. They are Personal Rooms, Business Place, Climate-controlled Storage, and Garage.

To host a place, one has to register on our website. He has to enter a valid NID number for verification. After verification, he can host a place. To host a place, he has to give proper information, pictures, price per day/hour, etc. To rent a place, a user can simply search for a place location-wise or type-wise. To rent a place, a user has to provide the check-in date, how many days/hours he will stay or use the service. After he has given every information, this request will be forwarded to the property owner. If the owner accepts the request, the renter will be notified and the renting session is complete.

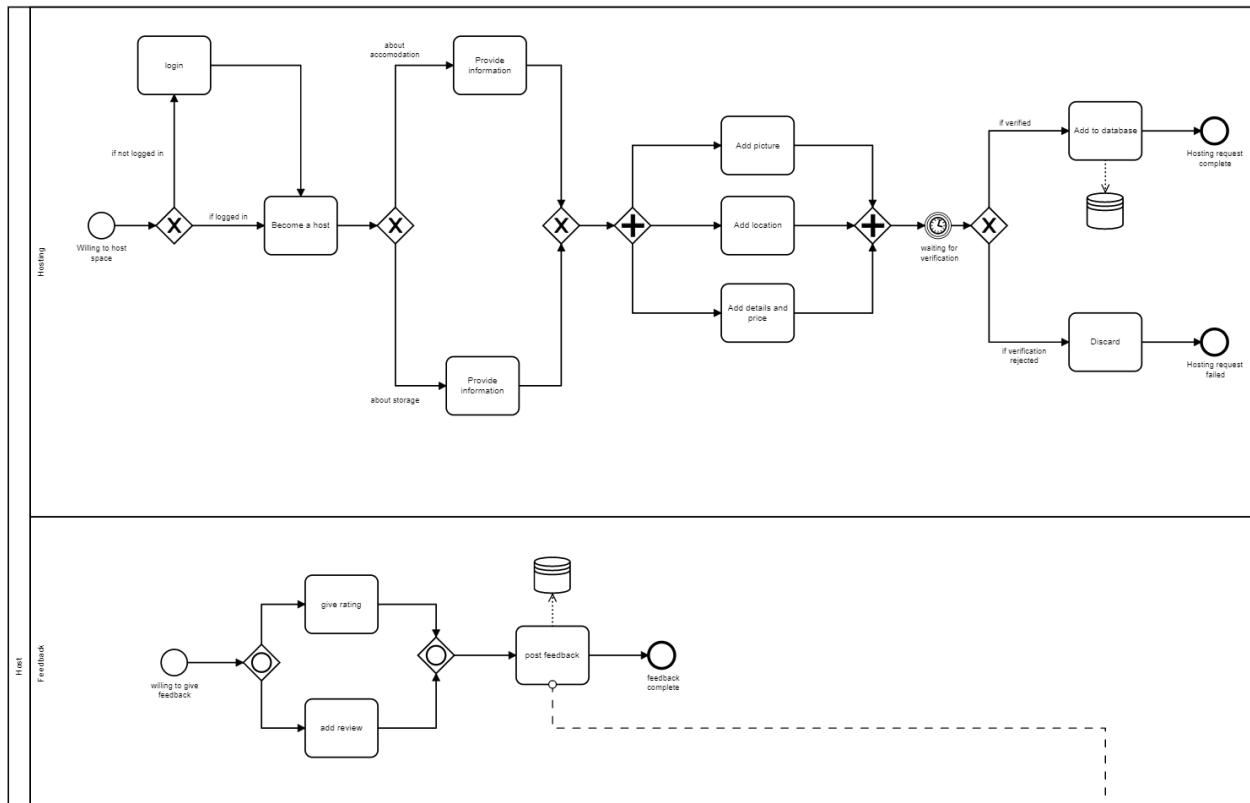
There is also a payment section. Users can pay using mobile banking or cash. Payment will also be verified. After the payment, both the renter and host can leave a review for future purposes and advertisement purposes. Reviews will be used for discounts and complaints will be taken care of immediately.

Requirement Analysis using BPMN diagram

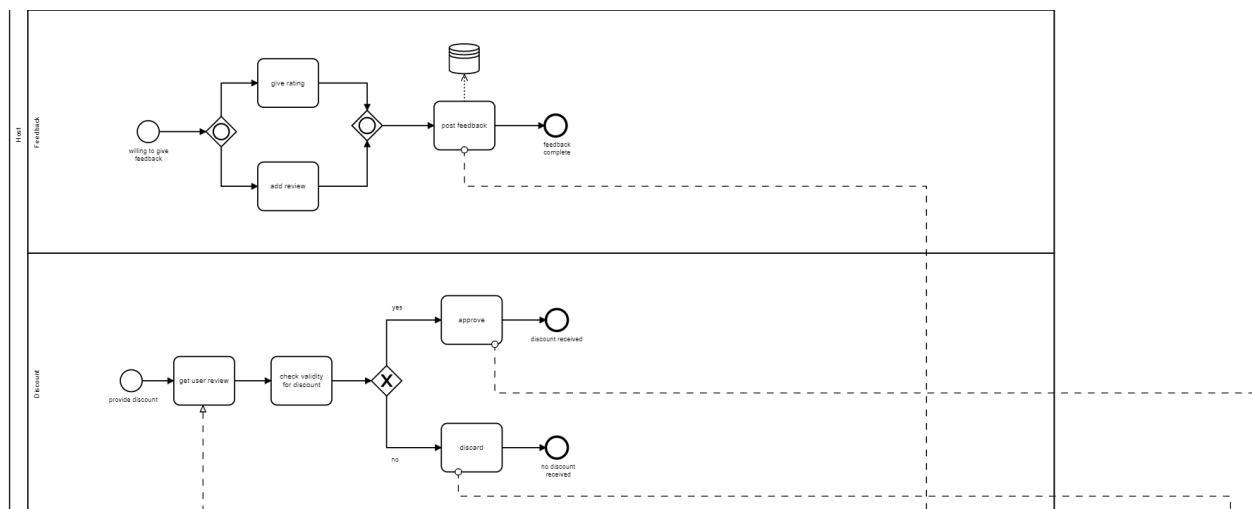
Authentication



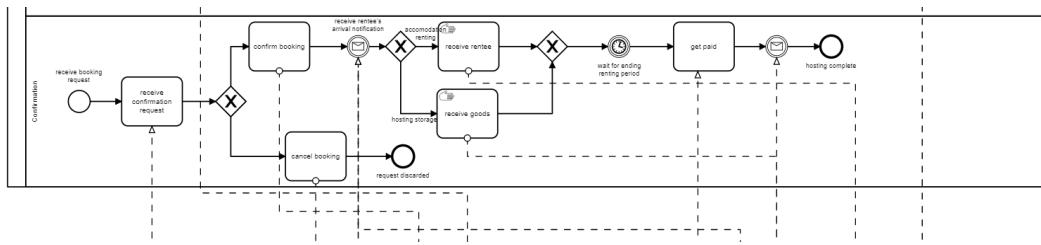
Host: Hosting & Feedback



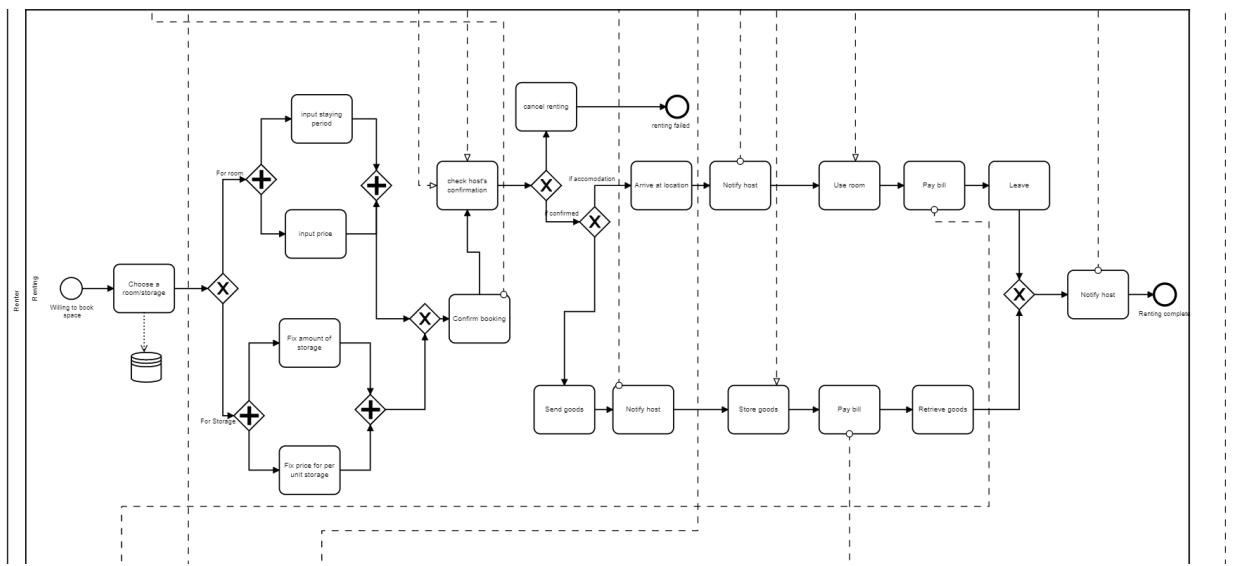
Host: Discount



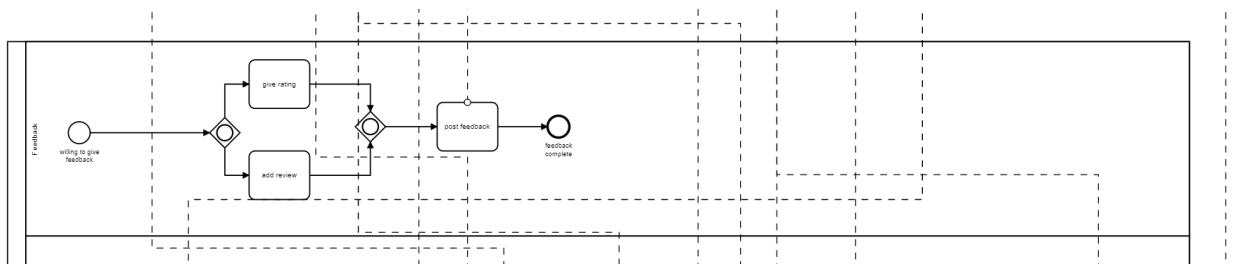
Host: Confirmation



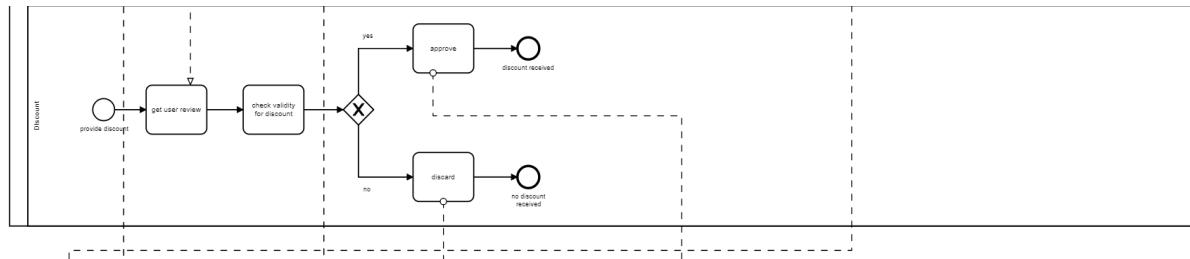
Renter: Renting



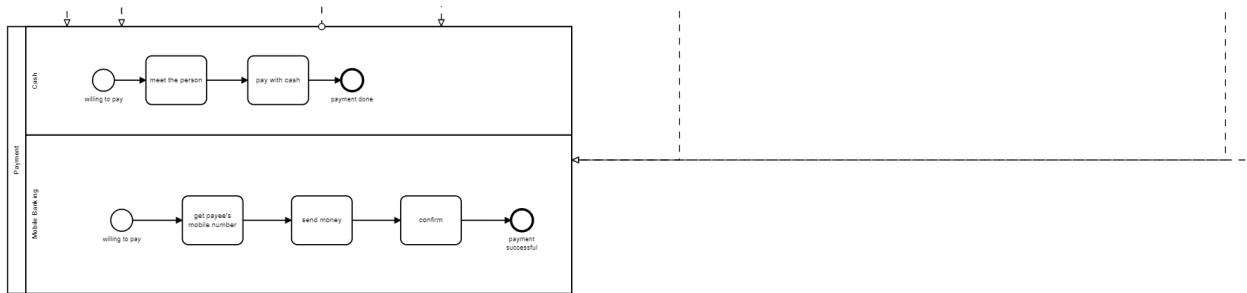
Renter: Feedback



Renter: Discount



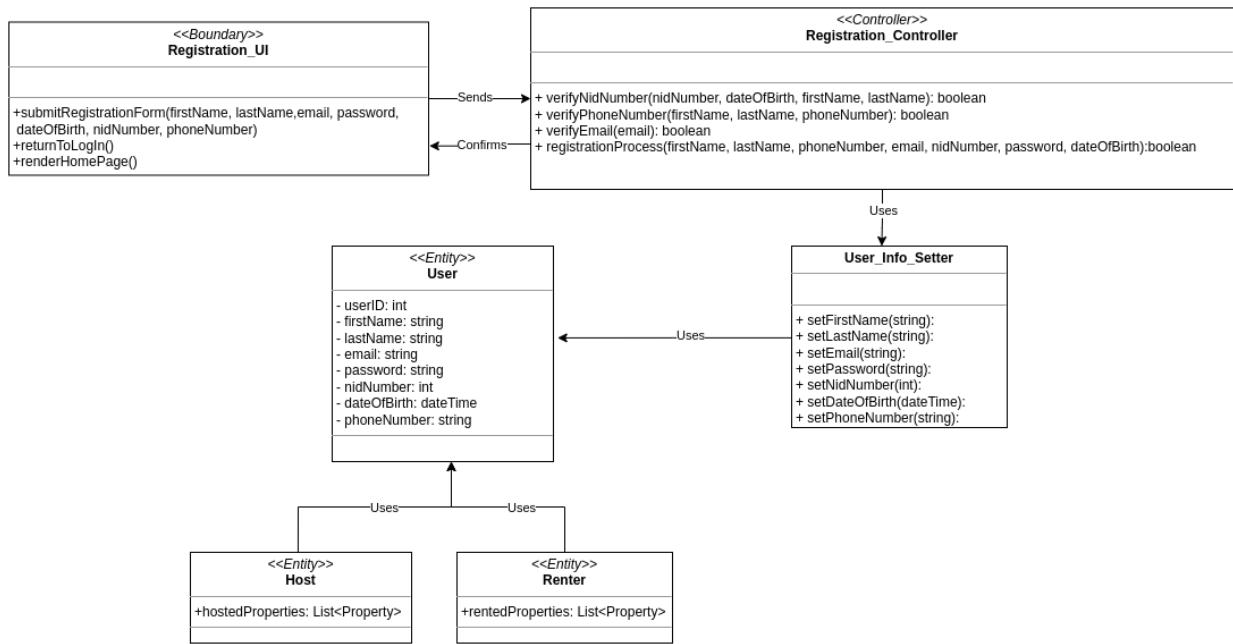
Payment



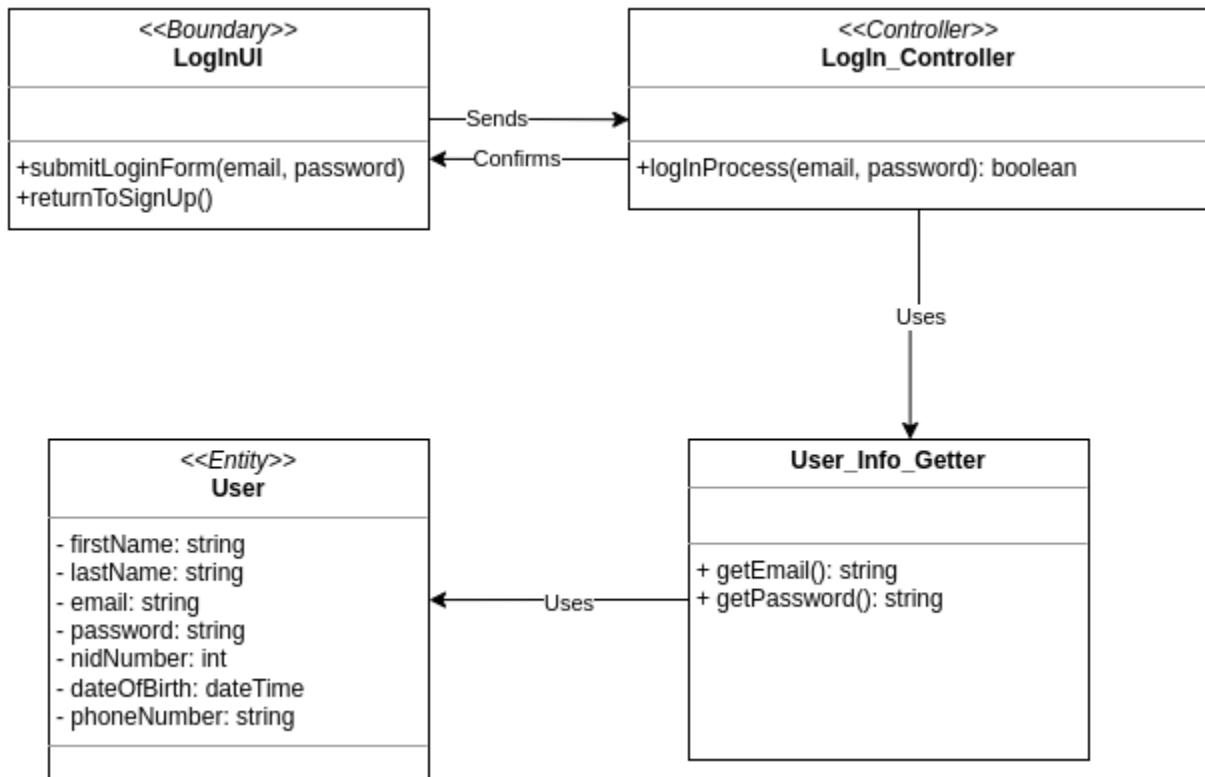
Class diagrams

- Feedback: The name we used for the personal room was personal storage, which is a bit of not a good name for a class to have.
- Modification: The name of the class “Personal Storage” was changed into “Personal Room”. Some additional fields in the User class were added to make the system more convenient.
All class diagrams are given below:

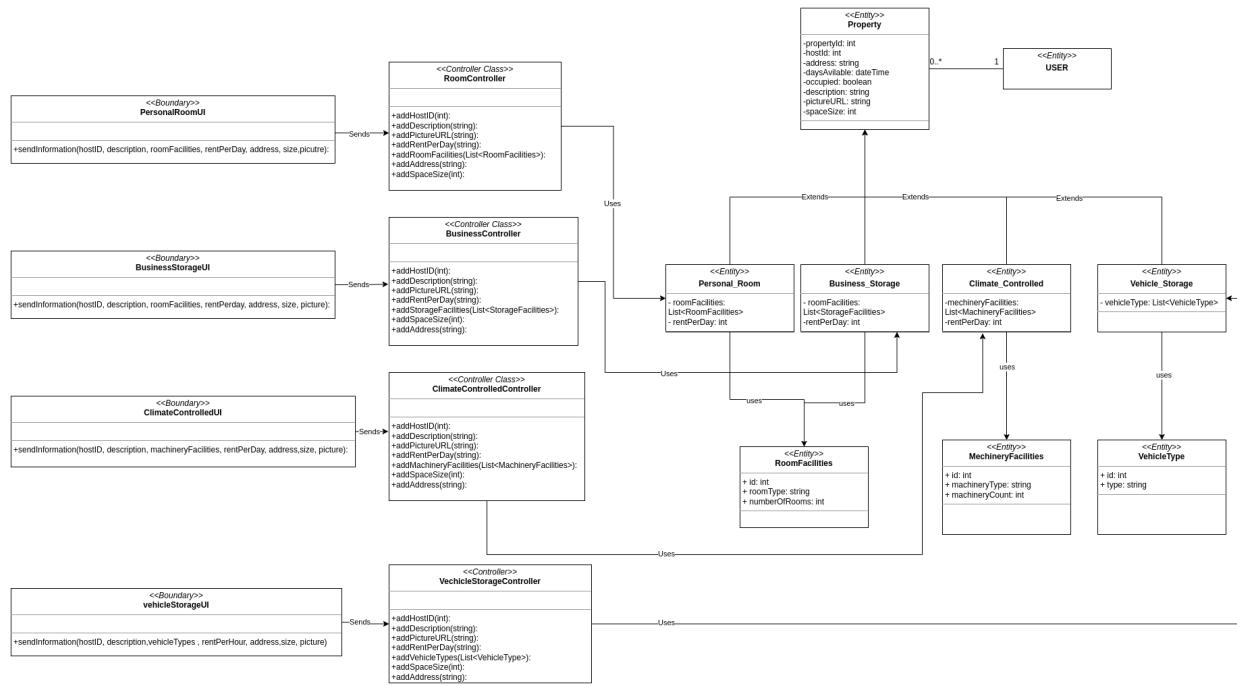
Registration



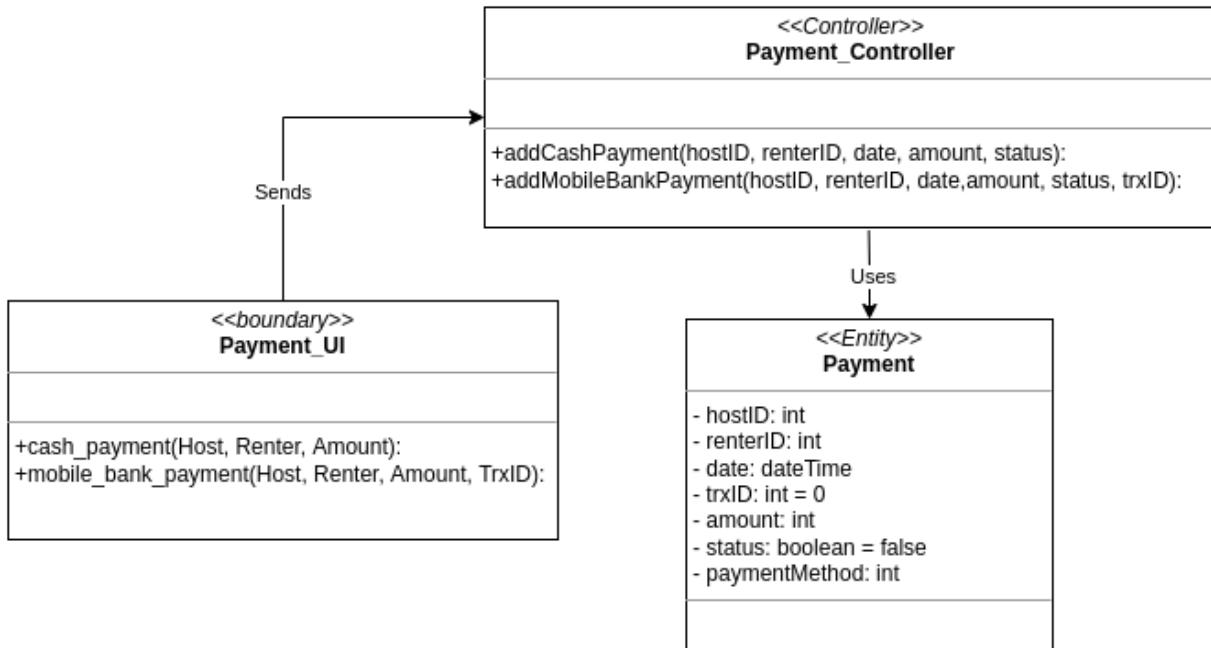
Log In



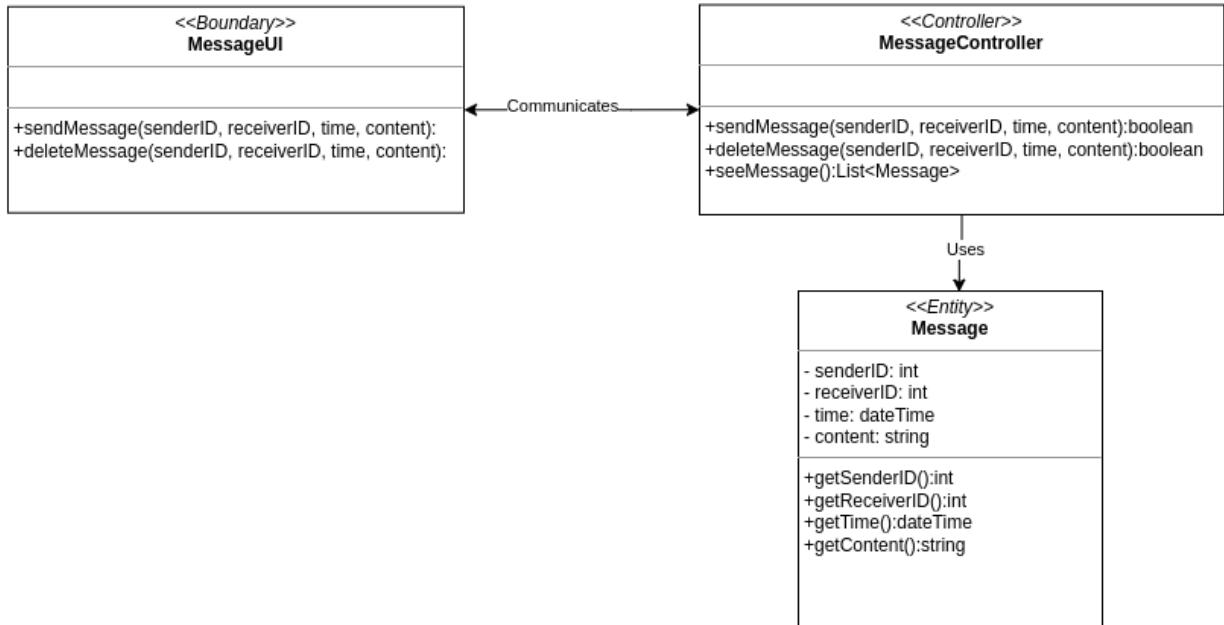
Hosting



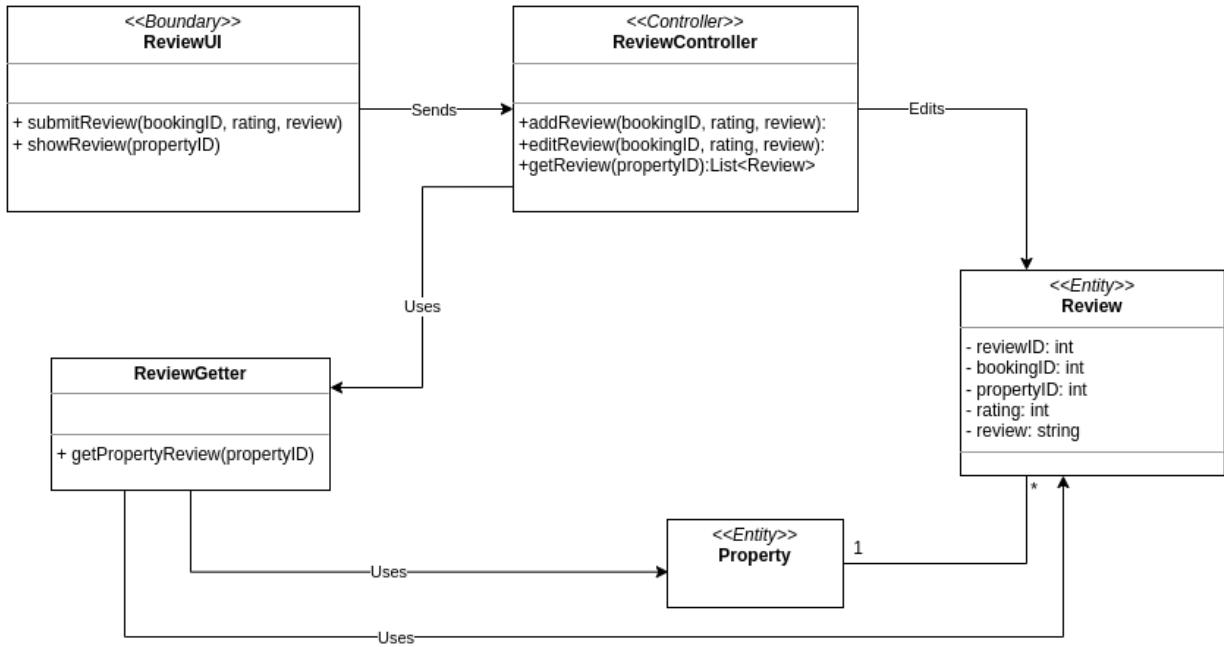
Payment



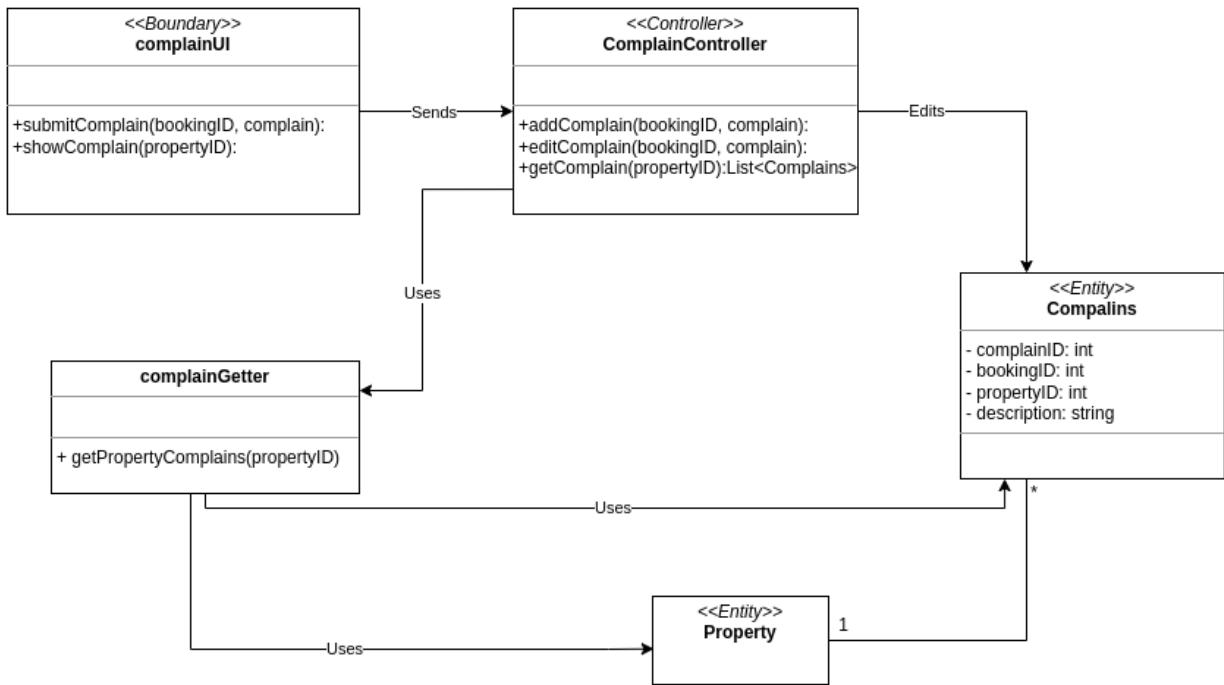
Chat



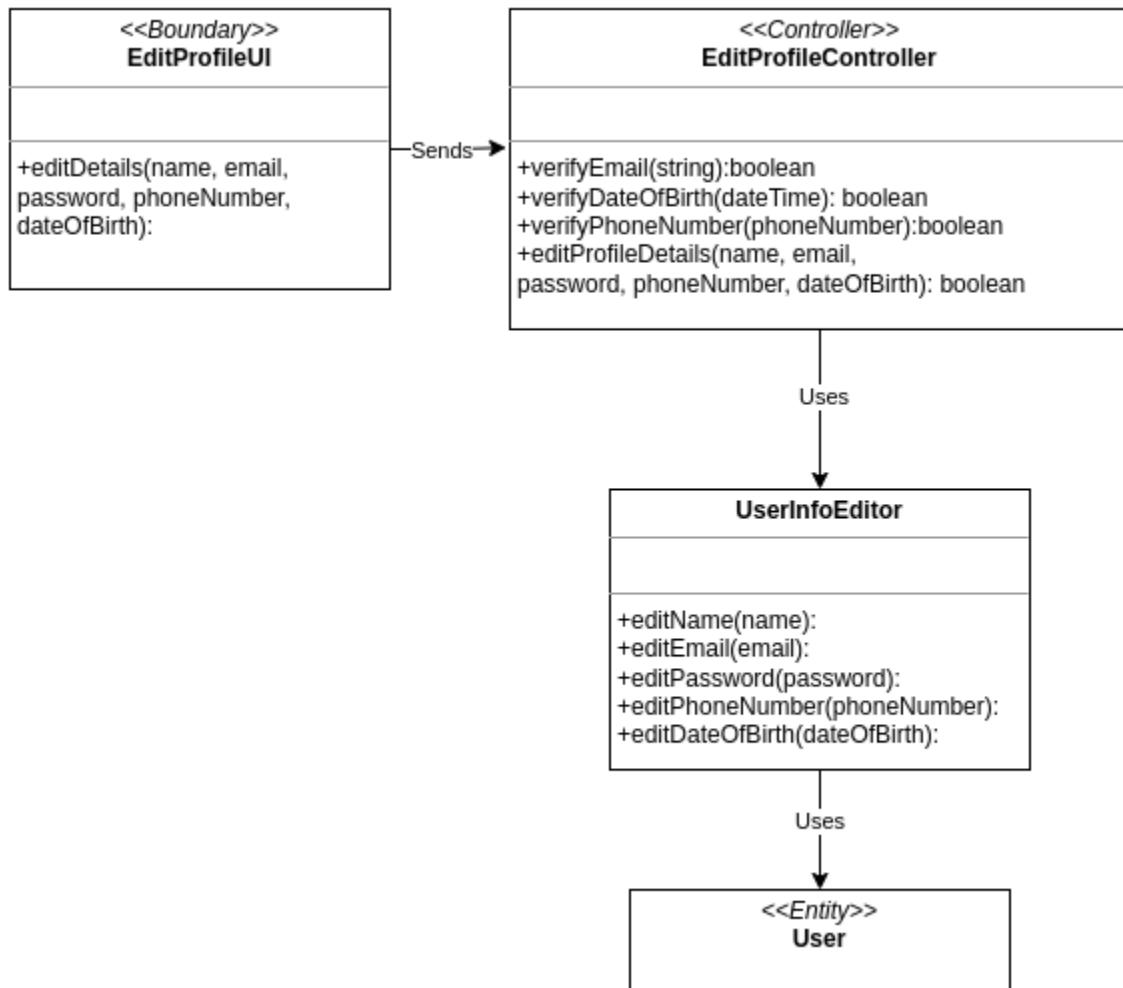
Review



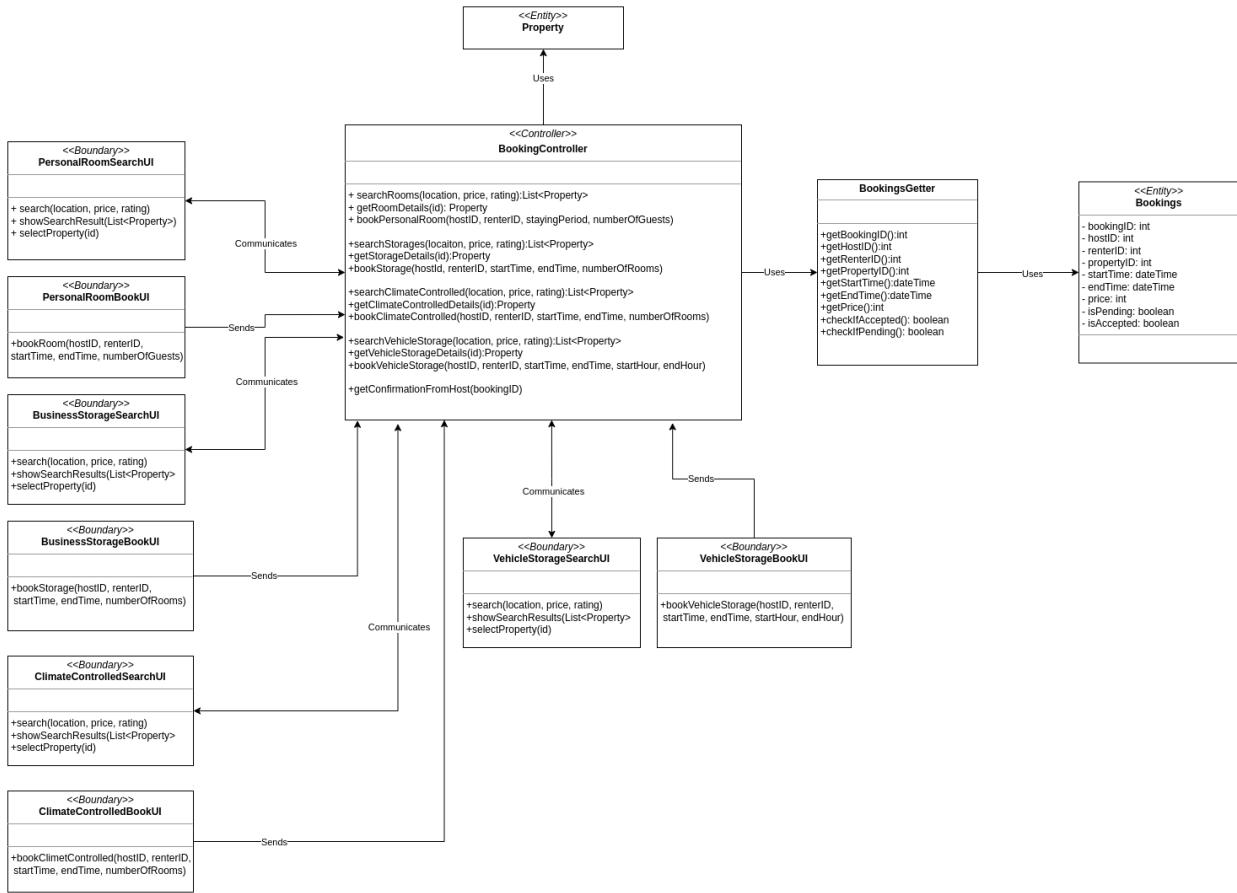
Complain



Edit Profile



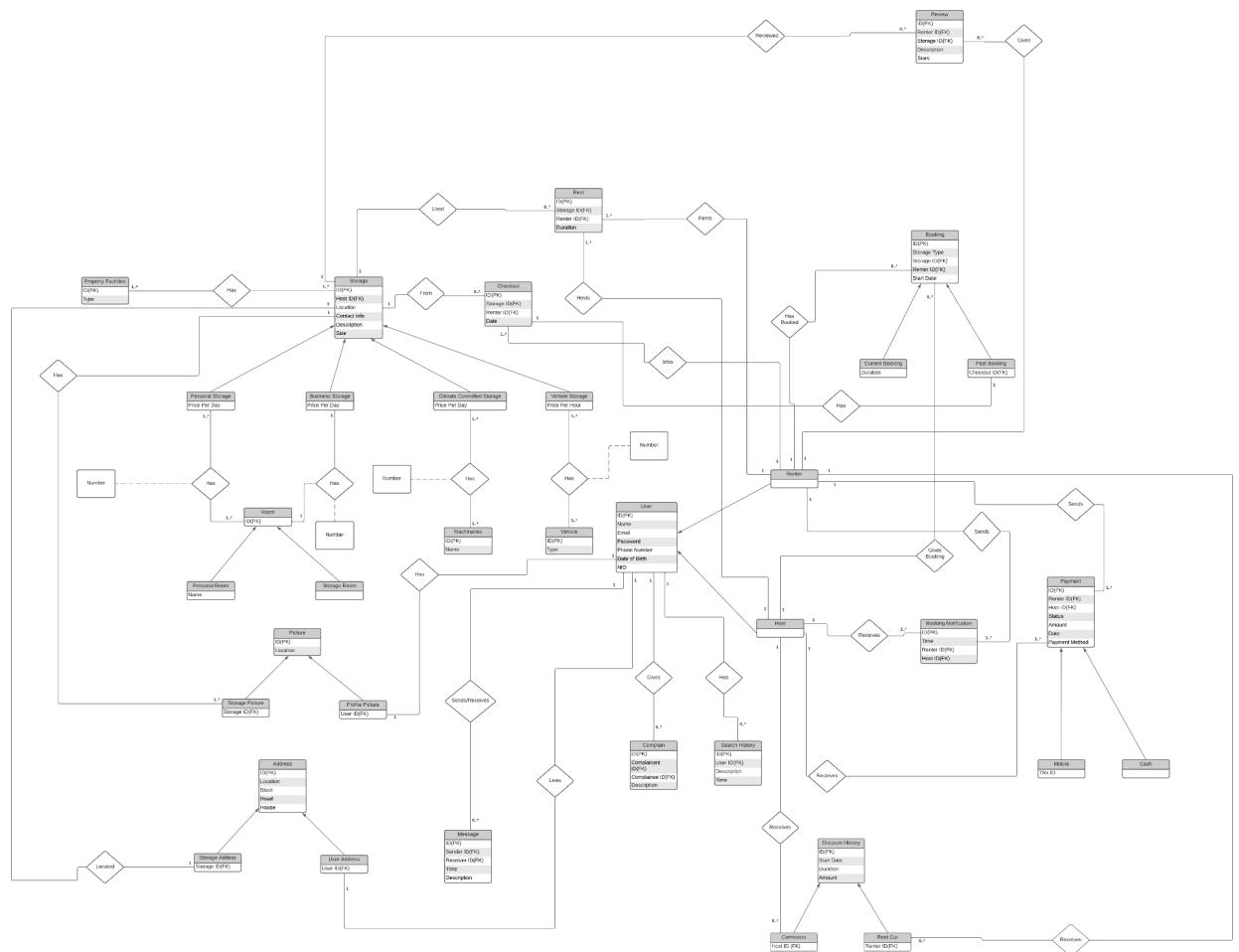
Renting



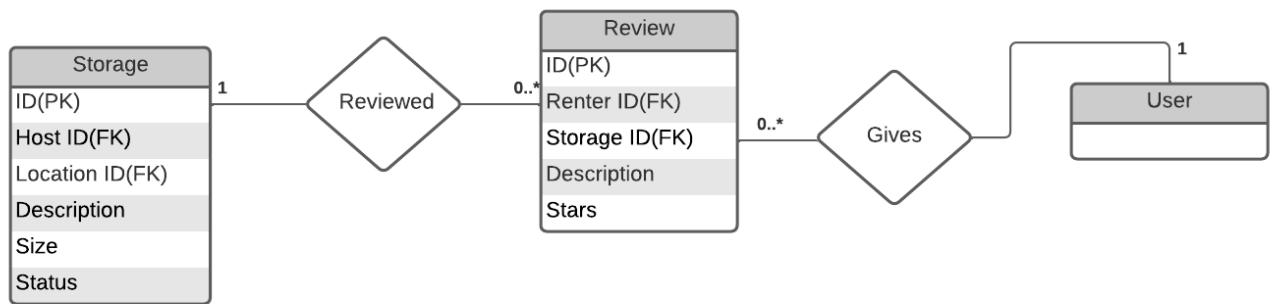
ER diagrams

- Feedback: To use only user entity rather than using host and renter two separate entity
- Modification: The host and renter specialize the user entity. But the host and renter did not have any attributes. As a result, in the places, I used only the user entity which was advised in the feedback. Our database implementation also had one table for user entities.

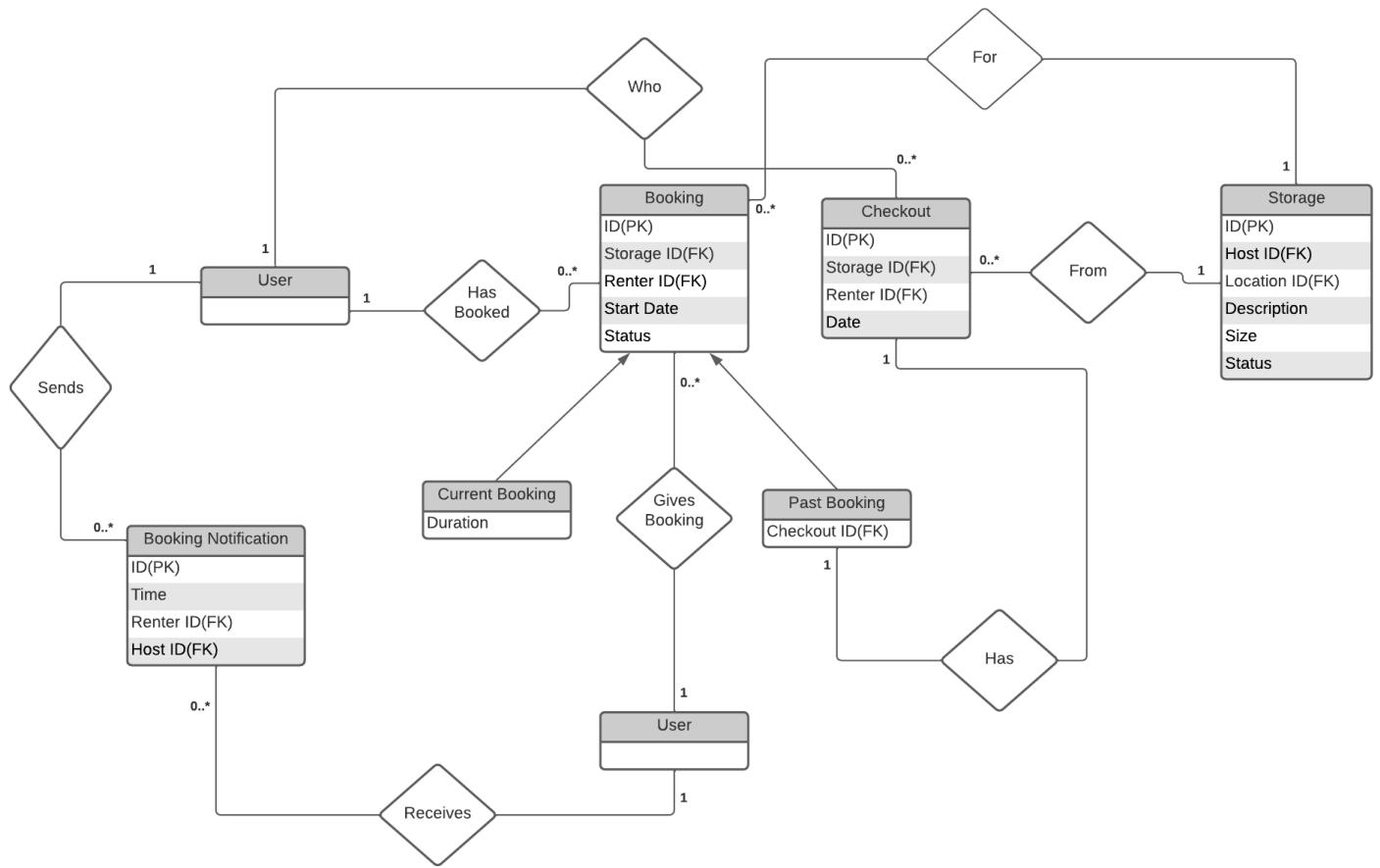
The Whole ERD



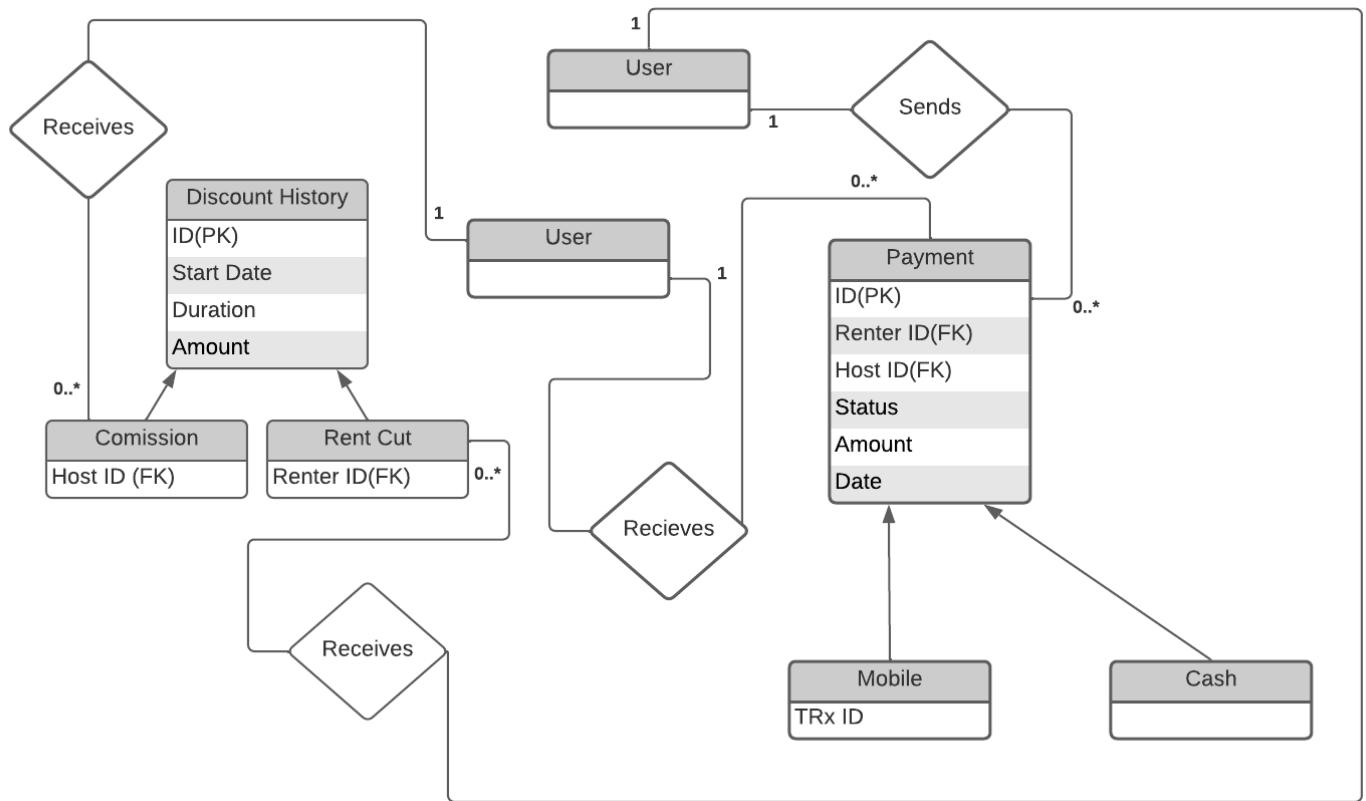
Review



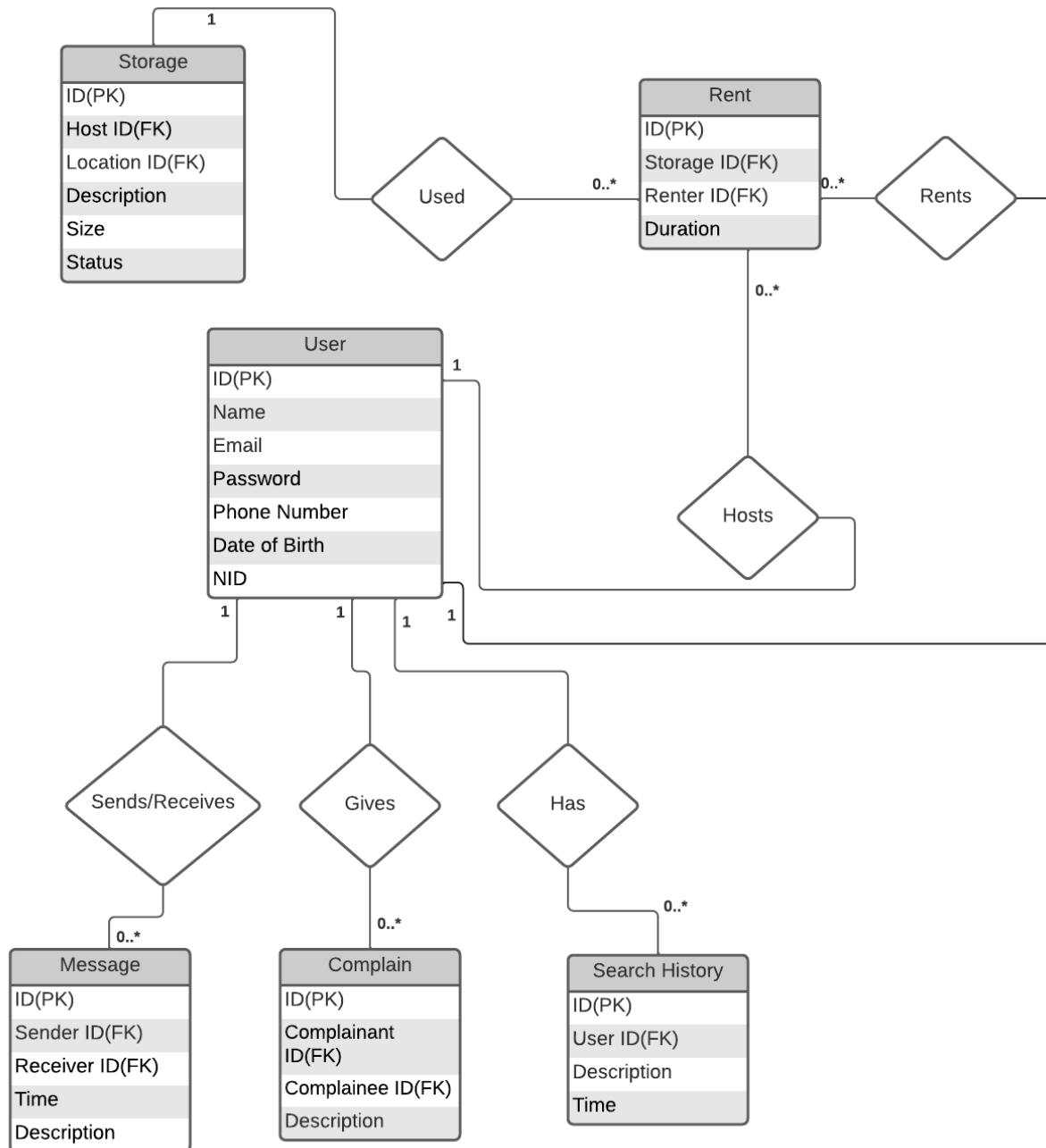
Booking, Booking Notification & Checkout



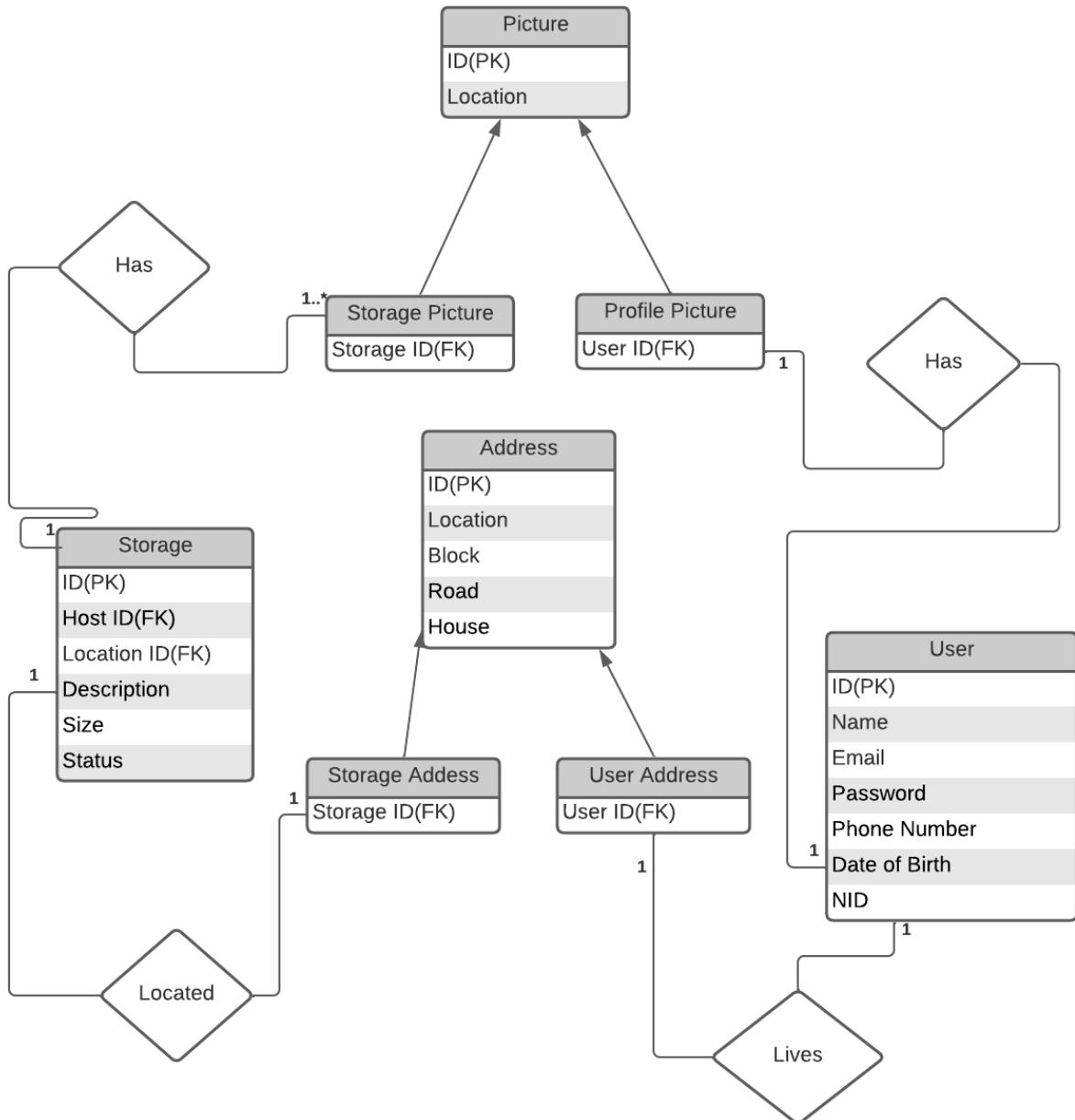
Discount History & Payment



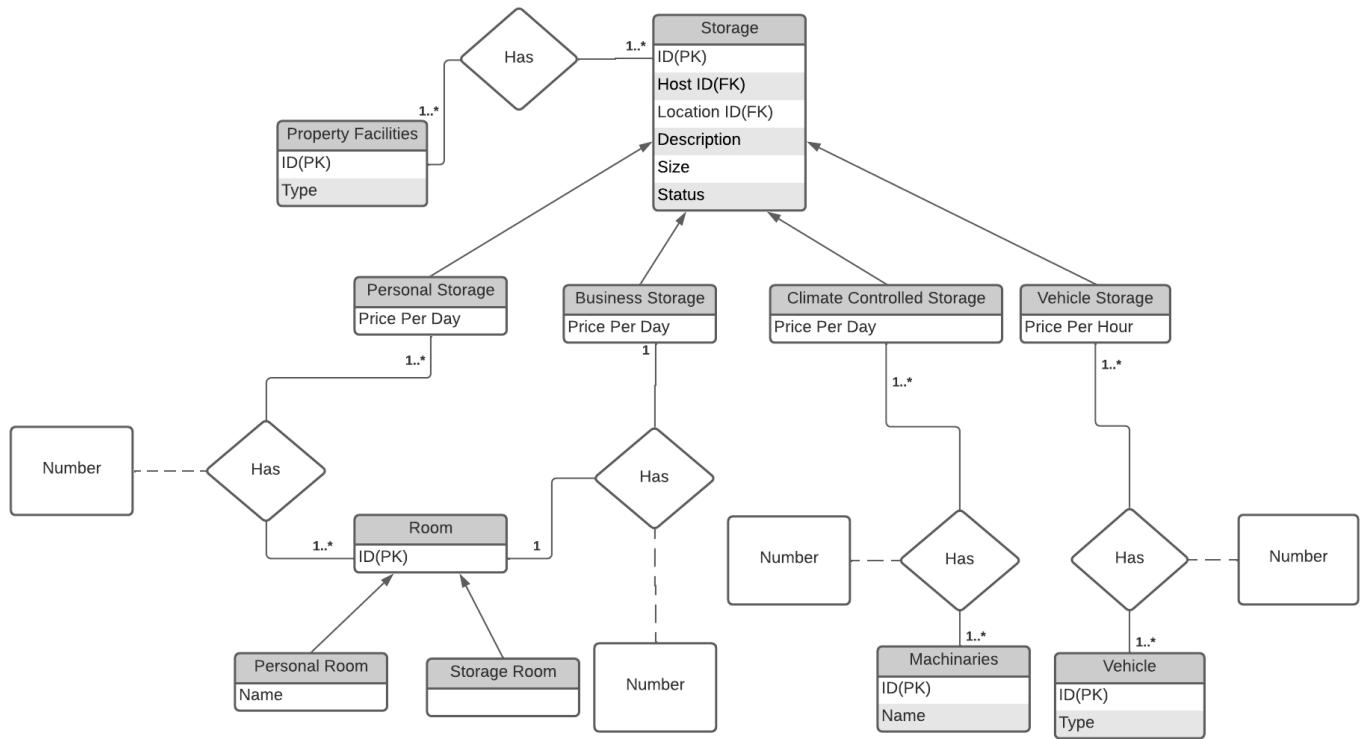
Rent, Message, Complain & Search History



Picture & Address



Storage & Related Entities



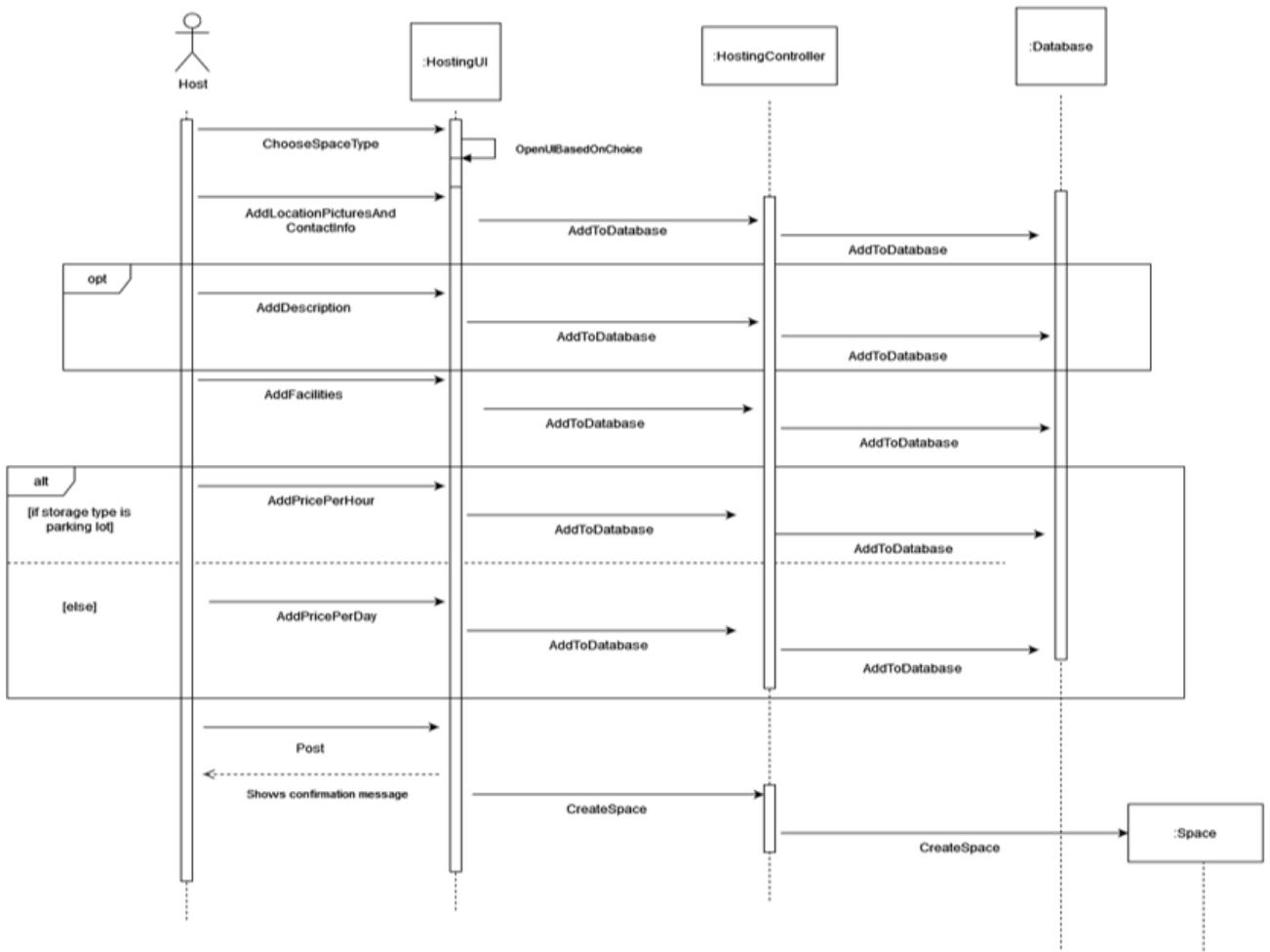
User

User
ID(PK)
Name
Email
Password
Phone Number
Date of Birth
NID

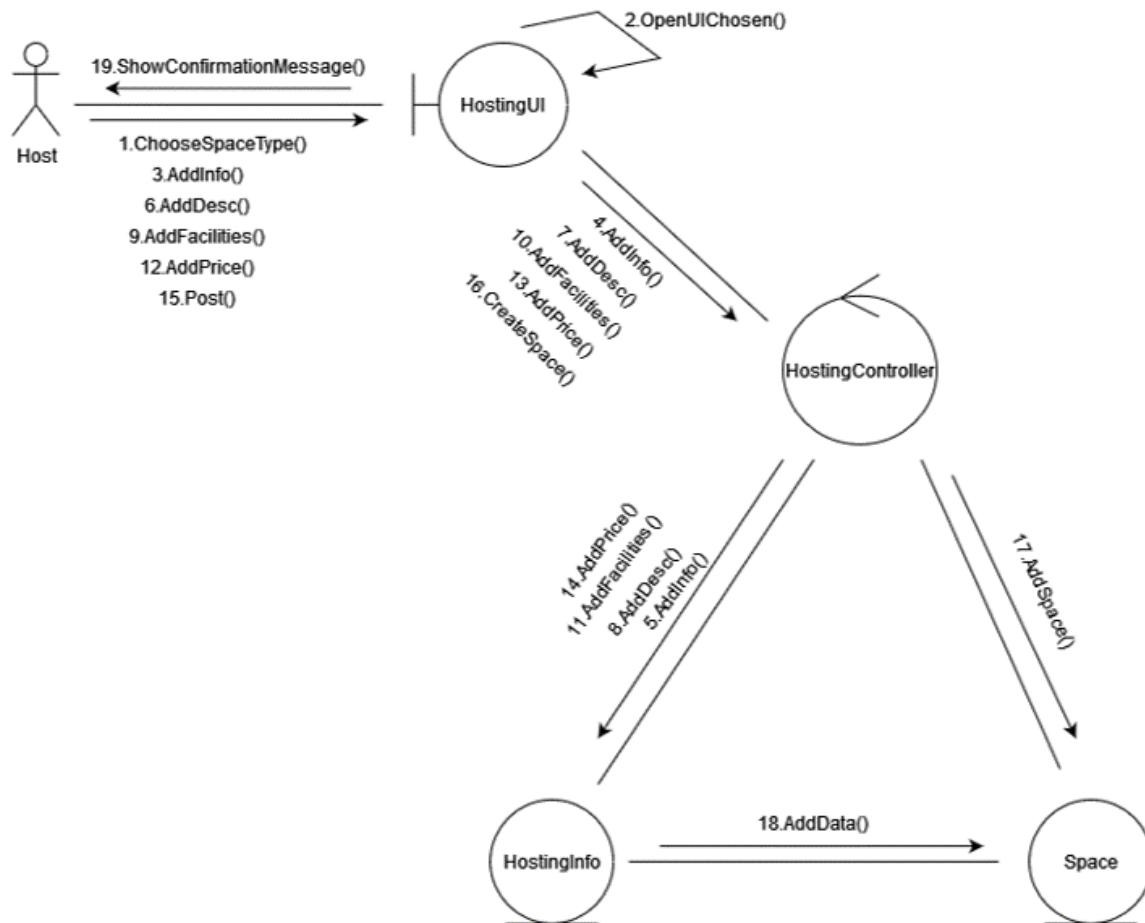
Interaction Diagram

- **Feedback:**
 1. Add more filters(e.g. Number of rooms, space size, etc.) while searching for a space to rent
 2. Show confirmation message to both renter and host after successful cash payment
- **Modifications:**
 1. Now in the search box, after giving input for a particular type of space, the user has the option to add filters for a more specific search.
 2. Confirmation message is added after successful cash payment to both renter and host. Both sequence diagram and collaboration diagram is updated with this newly added feature.

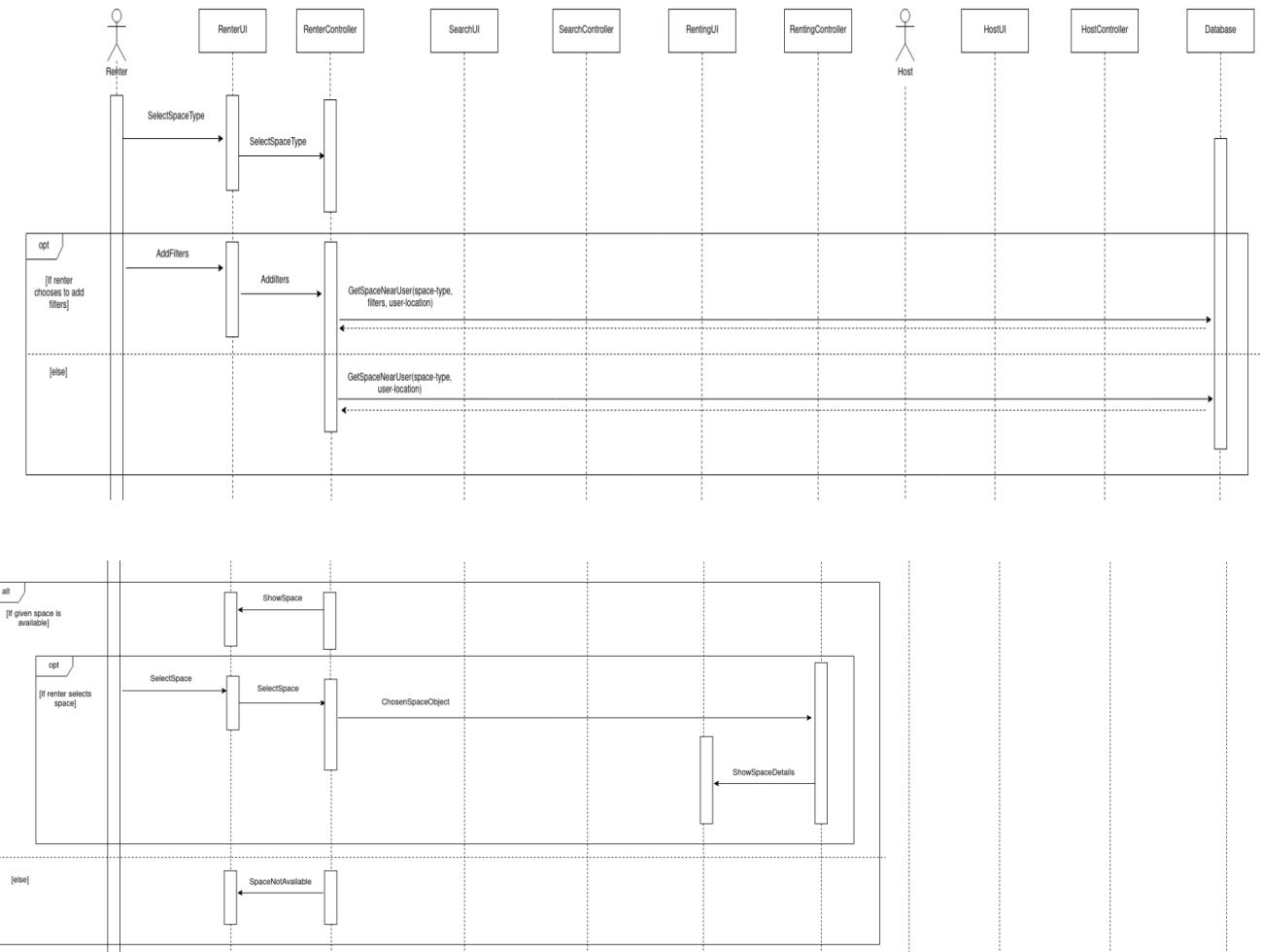
Sequence diagram for Hosting

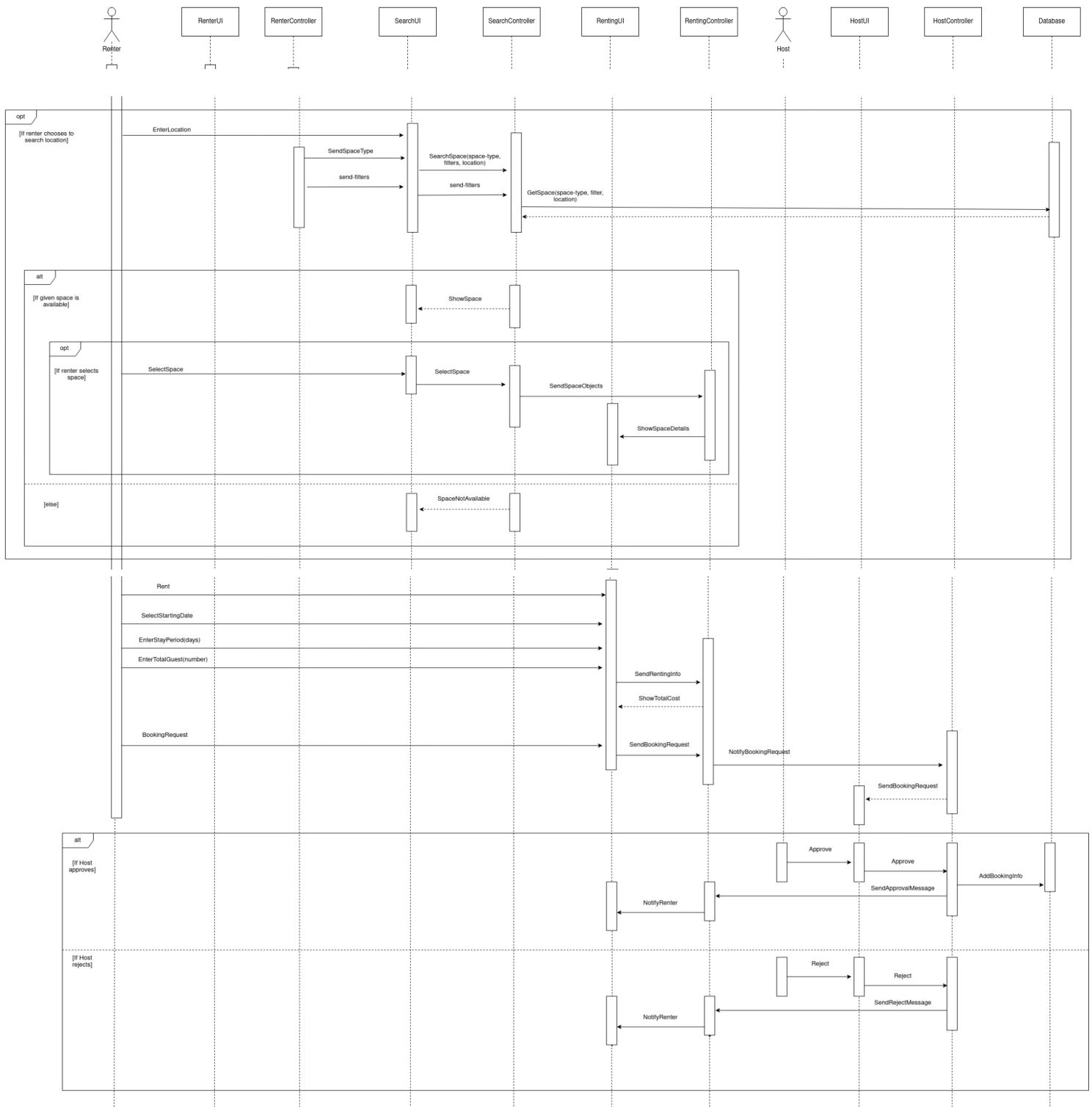


Collaboration diagram for Hosting

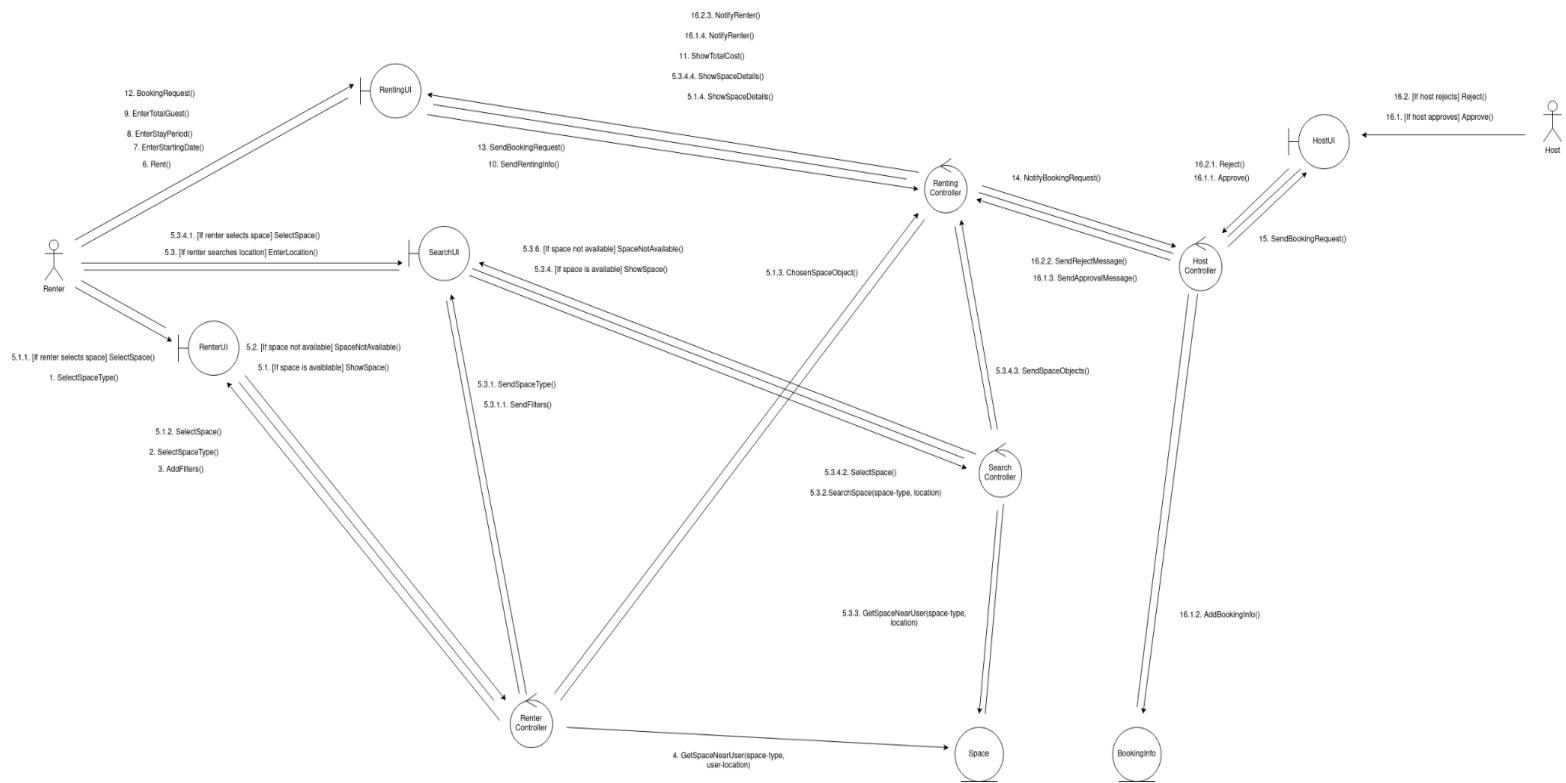


Sequence diagram for Renting

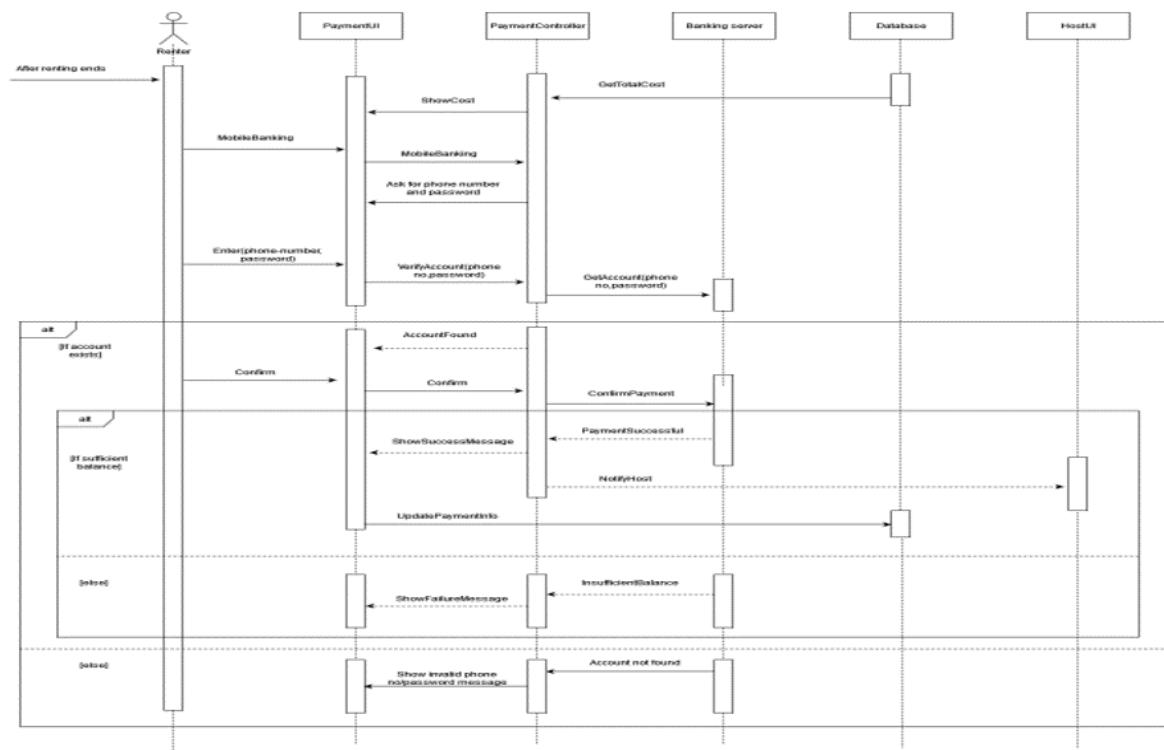




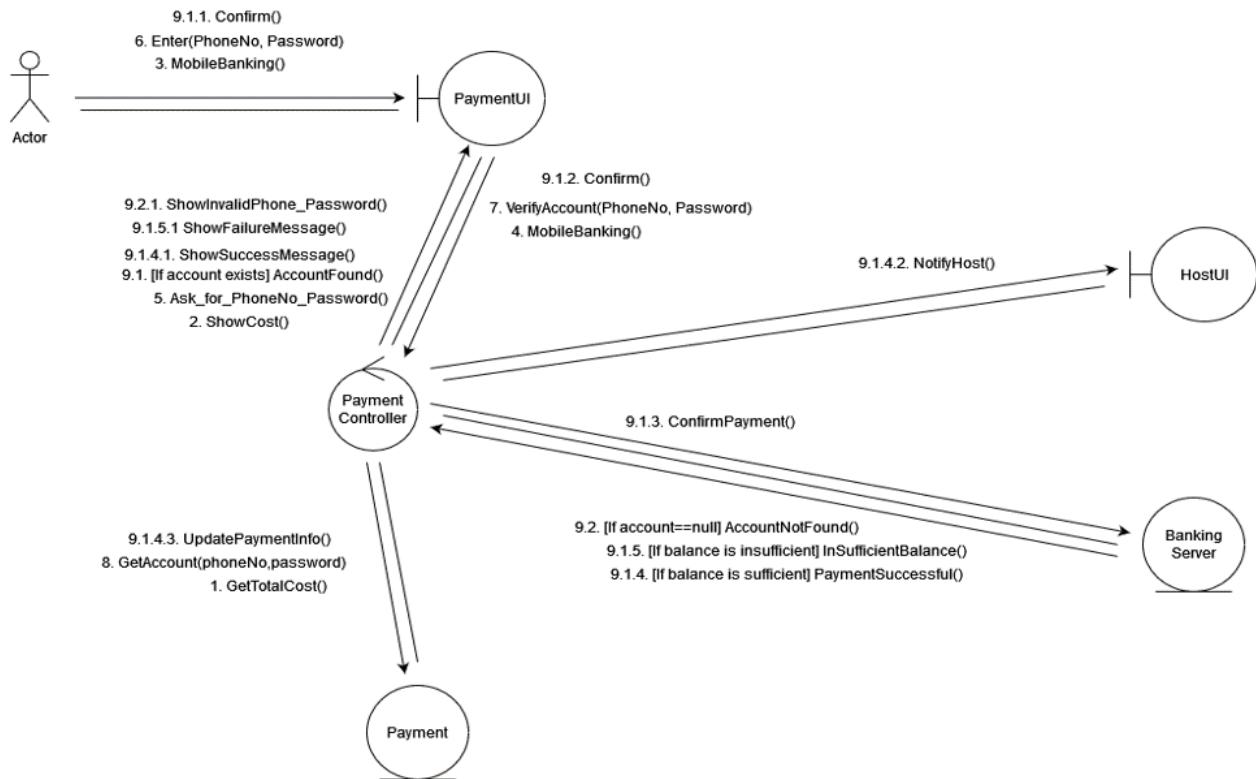
Collaboration Diagram for Renting



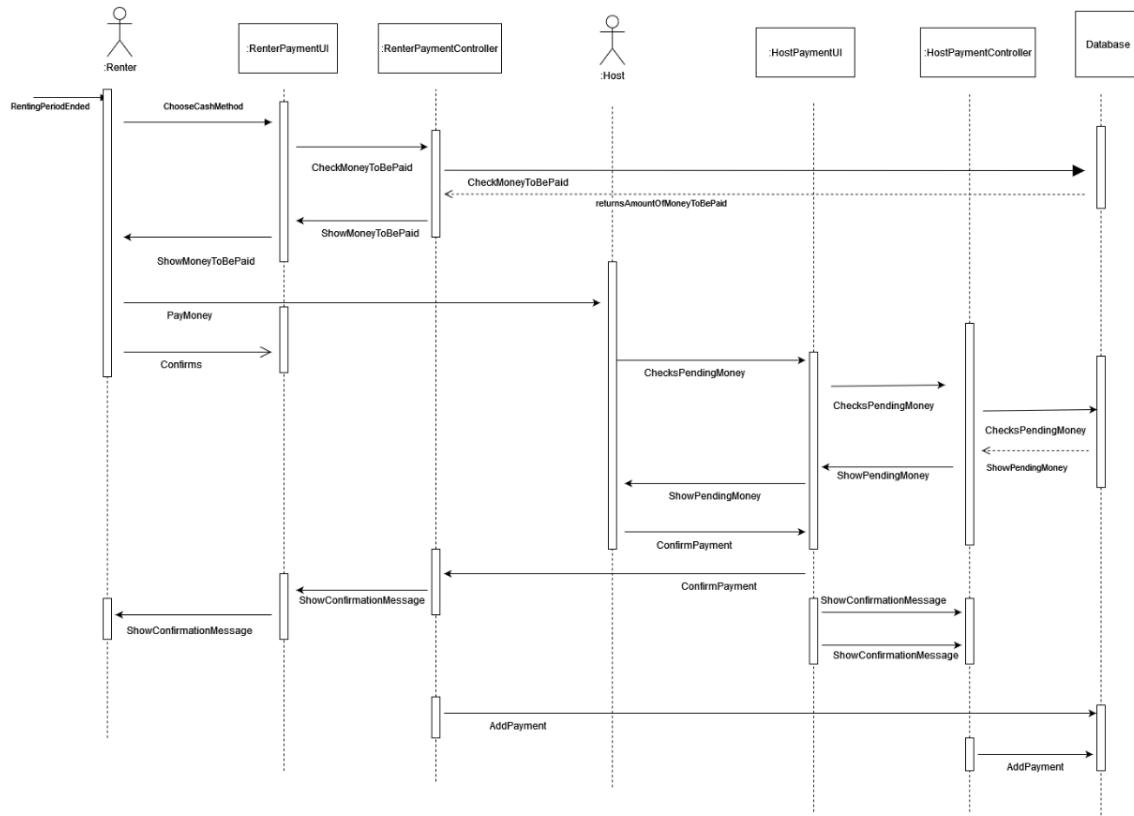
Sequence Diagram for Payment(Mobile Banking)



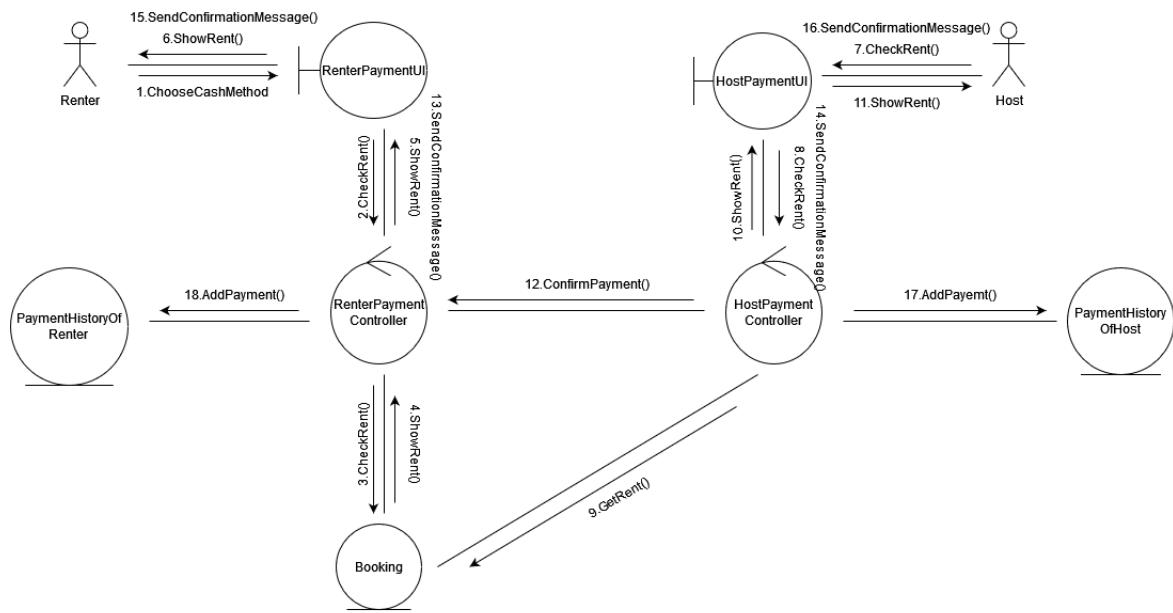
Collaboration Diagram for Payment(Mobile Banking)



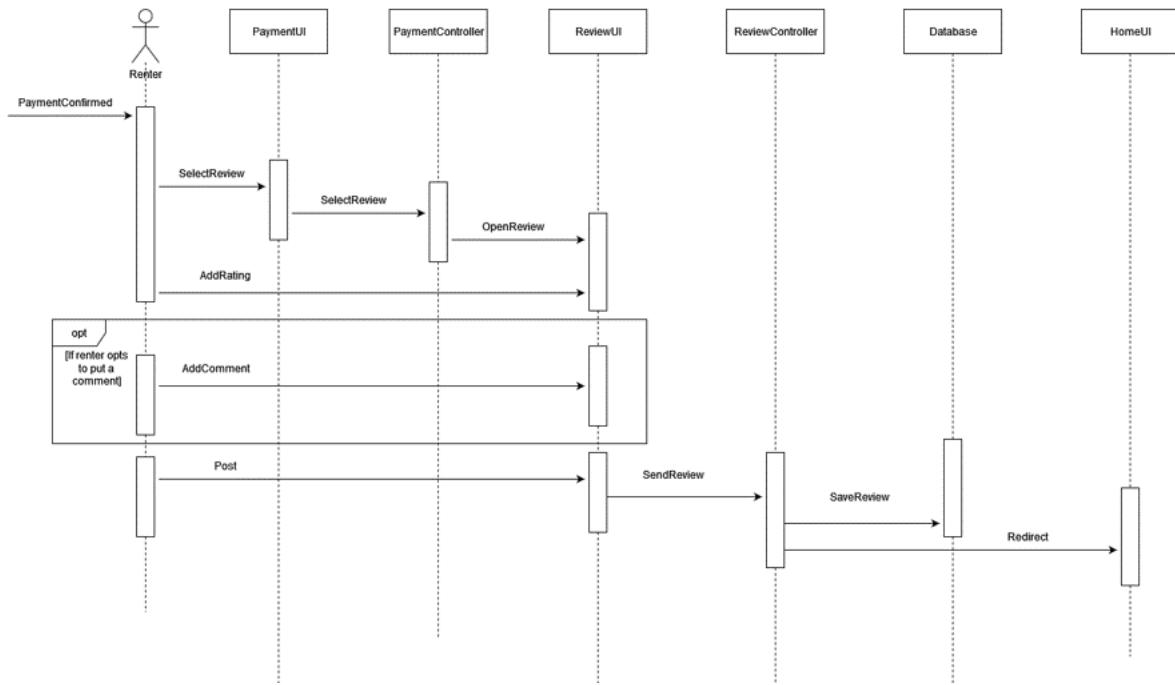
Sequence Diagram for Payment(Cash)



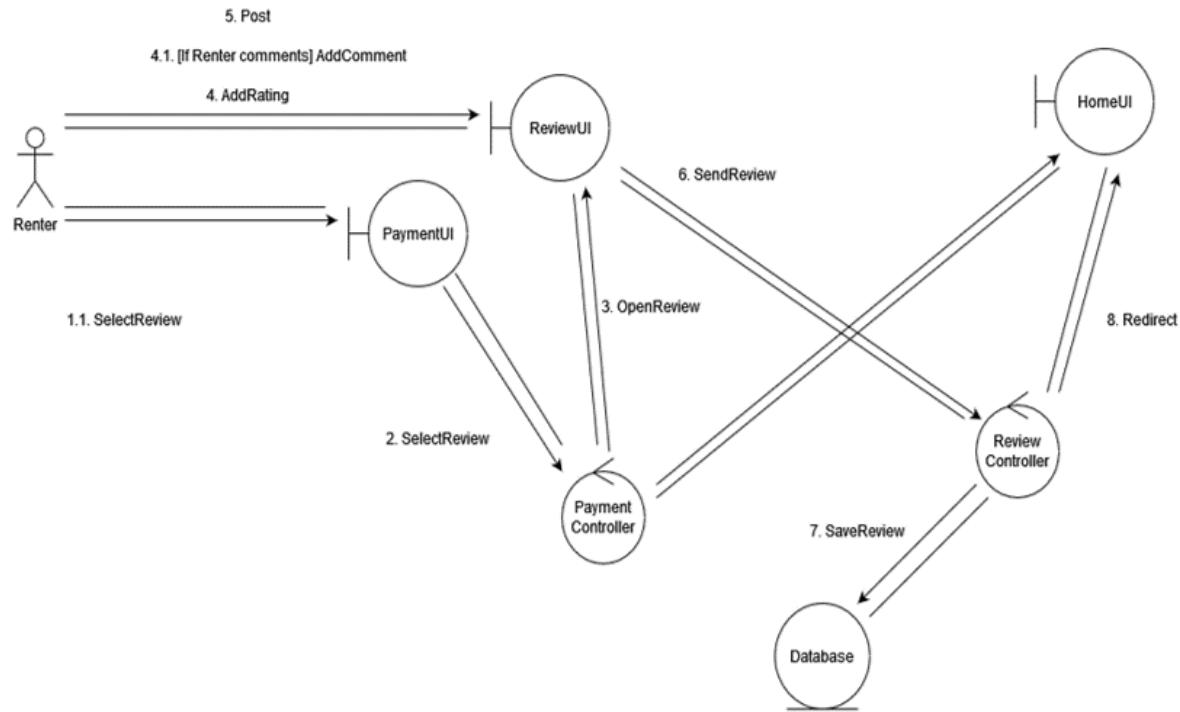
Collaboration Diagram for Payment(Cash)



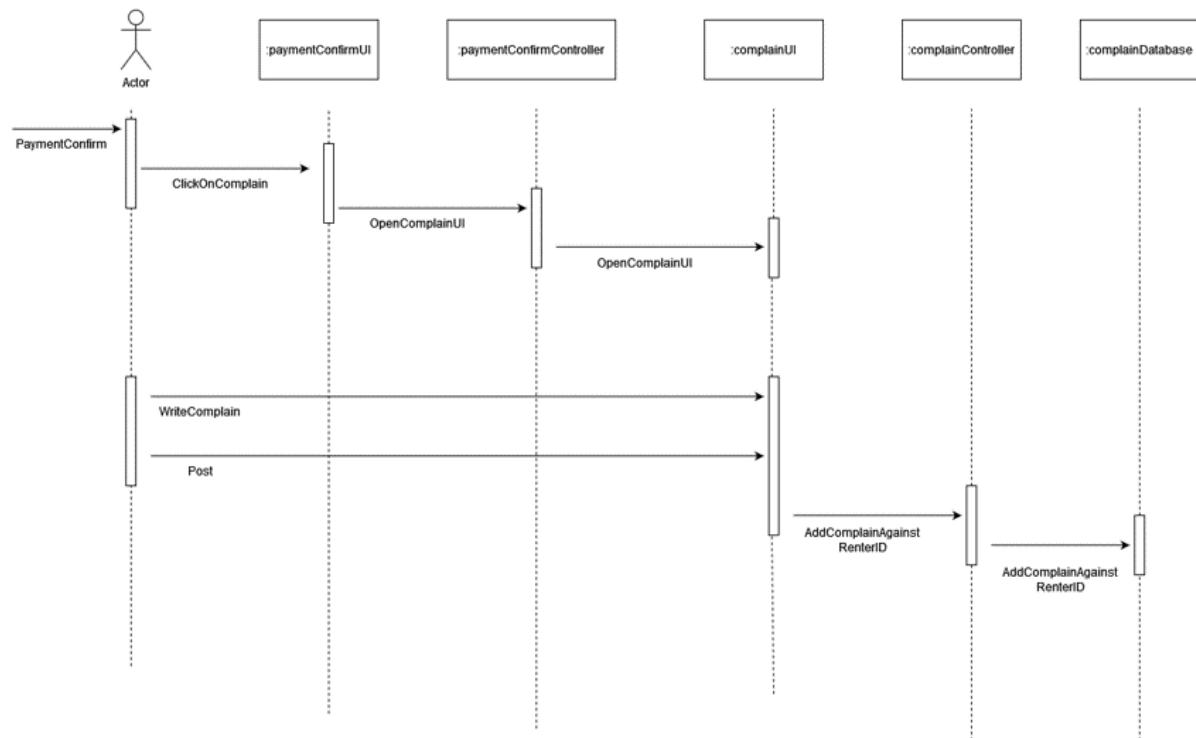
Sequence Diagram for Review



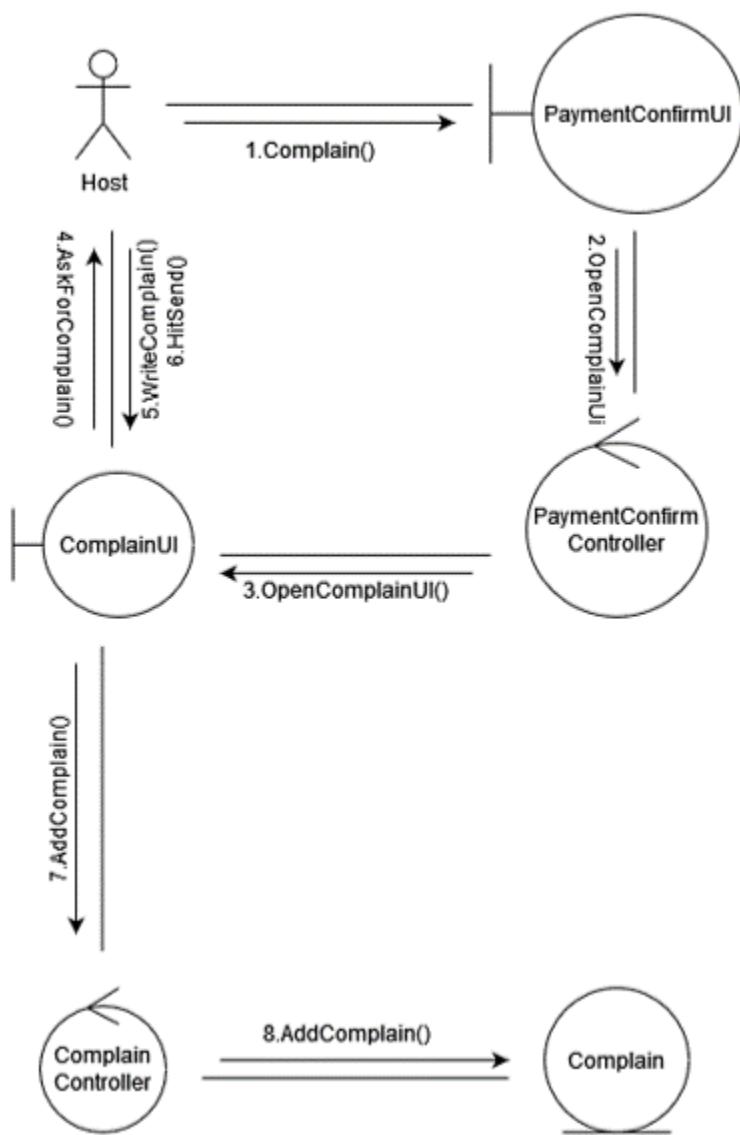
Collaboration Diagram for Review



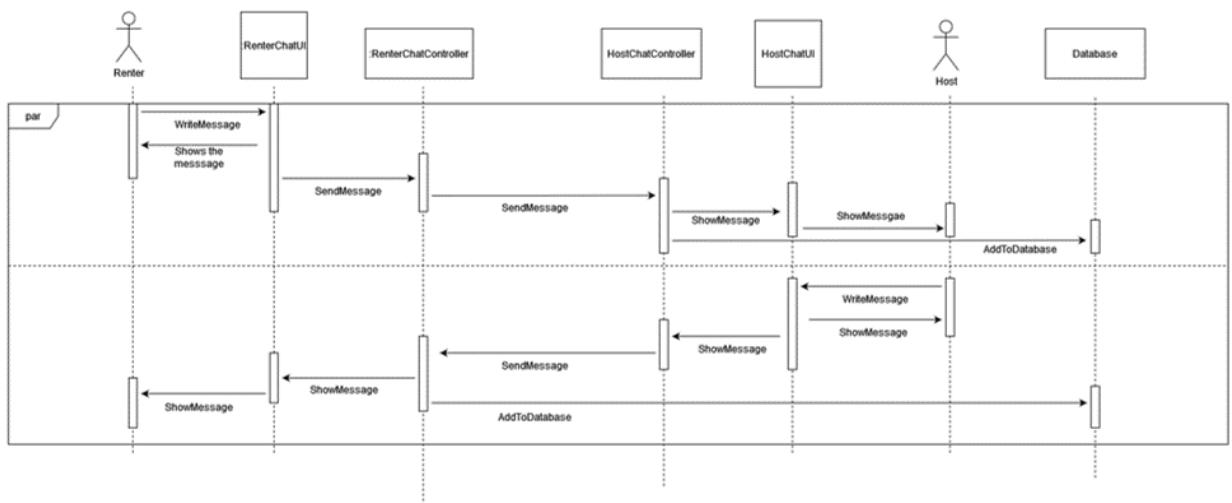
Sequence Diagram for ComplainForHost



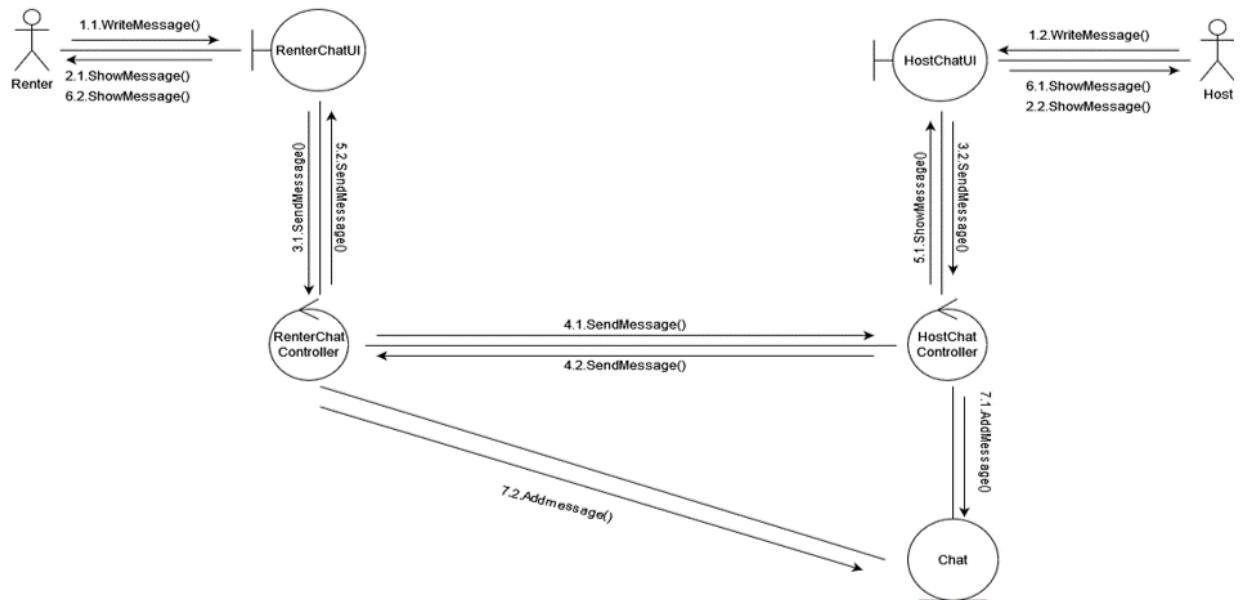
Collaboration Diagram for ComplainForHost



Sequence Diagram for Messaging



Collaboration Diagram for Messaging

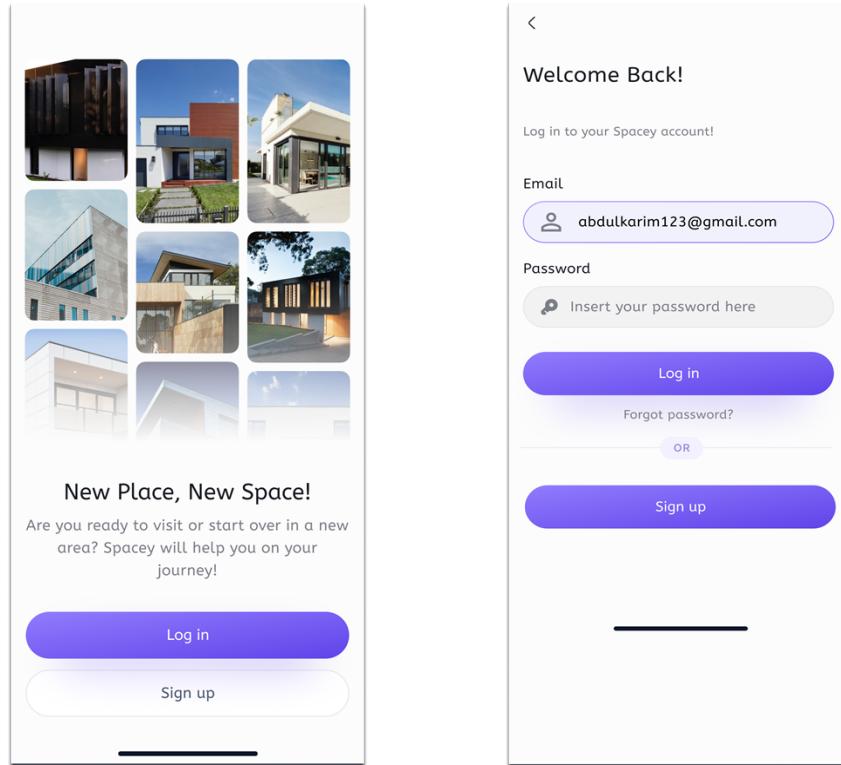


Mock UI

- **Feedback:** On the homepage, there should be an option for sorting the properties. In the hosting form, the input field for “size” was missing.
- **Modification:** Sorting the properties according to their “rating” has been modified in UI. An extra field named “Size(m2)” has been added to all types of hosting.

The modified mock UI is given below:

Opening screen, Log In & Sign Up



<
Let's share & rent together!

Create your Spacey account!

Full Name
Insert your full name here

Email
abdulkarim123@gmail.com

Password
Insert your password here

Phone number
Enter your phone number

Date Of Birth
Enter your date of birth

NID
123 Insert NID number

Create account

OR

Log in



Your account has been created. Press "Finish" to continue.

Finish



Incorrect credentials provided. Please "Go back" to continue.

Go back

Homepage for Personal Room

Find your place in
📍 Cox's Bazar, Bangladesh ▾

Search address, city, location

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Near your location
243 properties in Cox's Bazar [See all](#)

★ 4.8 (73)
Ocean view Cabin in Cox's Bazar
Kolatoli, Cox's Bazar
2 room 673 m²
\$50 / day

Top rated in Cox's Bazar [See all](#)

★ 4.9 (104)
Entire private villa in Cox's Bazar
Qadirpara, Cox's Bazar
2 room 488 m²
\$60 / day

Find out your next trip!

[See all](#)

Bandarban, Bangladesh
345 rented props

Mahasthangarh, Bogra
290 rented props

Want to host your own place?
Earn passive income by renting or selling your properties!
[Become a host](#)

Home Explore Bookings Profile

< Q Bandarban,Bangladesh ⚙

What type of storage?

Personal Room Business Storage
Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 72 results Sort

★ 4.8 (73) Entire Bromo mountain view Cabin in Bandarban Nilachol, Bandarban 2 room 673 m² \$52 / day

★ 4.9 (104) Entire private villa in Bandarban Bandarban city, Bandarban 2 room 488 m² \$64 / day

★ 4.8 (73) Entire rental unit, Puri Orchard Apartment Niladri, Bandarban 2 room 874 m² \$75 / day

Show more results

< Q Bandarban,Bangladesh ⚙

What type of storage?

Personal Room Business Storage
Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 72 results Rating

★ 4.9 (104) Entire private villa in Bandarban Bandarban city, Bandarban 2 room 488 m² \$64 / day

★ 4.8 (73) Entire Bromo mountain view Cabin in Bandarban Nilachol, Bandarban 2 room 673 m² \$52 / day

★ 4.8 (73) Entire rental unit, Puri Orchard Apartment Niladri, Bandarban 2 room 874 m² \$75 / day

Show more results

Homepage for Business Storage

Find your place in
📍 Dhaka, Bangladesh ▾

Search address, city, location

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Near your location
150 properties in Dhaka

★ 4.8 (234) Warehouse in Dhaka Mirpur, Dhaka 5000 m² \$150/day

Top rated business storages in Dhaka

★ 4.9 (97) File Storage in Dhaka Tejgaon, Dhaka 600 m² \$80/day

Want to host your own place?
Earn passive income by renting or selling your properties!

Home Explore Bookings Profile

< Q Bogra, Bangladesh

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 53 results Sort

 ★ 4.8 (234)
Warehouse in Bogra
Shatmatha, Bogra
5000 m²
\$150/ day

 ★ 4.9 (97)
File Storage in Bogra
Banani, Bogra
600 m²
\$80/ day

 ★ 4.7 (80)
Document Storage in Bogra
Bakshibazar, Bogra
3000 m²
\$110/ day

Show more results

< Q Bogra, Bangladesh

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 53 results Rating

 ★ 4.9 (97)
File Storage in Bogra
Banani, Bogra
600 m²
\$80/ day

 ★ 4.8 (234)
Warehouse in Bogra
Shatmatha, Bogra
5000 m²
\$150/ day

 ★ 4.7 (80)
Document Storage in Bogra
Bakshibazar, Bogra
3000 m²
\$110/ day

Show more results

Homepage for Climate Controlled Storage

Find your place in
📍 Chittagong, Bangladesh ▾

Search address, city, location

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Near your location
54 properties in Chittagong See all

★ 4.9 (323)
Refrigeration space in Chittagong
Halishohor, Chittagong
600 m²
\$200 / day

Top rated climate-controlled in Chittagong

See all

★ 4.9 (97)
Cold Fur Storage in Chittagong
Pottenga, Chittagong
600 m²
\$80 / day

Want to host your own place?
Earn passive income by renting or selling your properties!
Become a host

Home Explore Bookings Profile

Cumilla, Bangladesh

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 65 results

Sort Rating


★ 4.9 (323)
Refrigeration space in Cumilla
Kondirpar, Cumilla
6000 m²
\$200 / day


★ 4.8 (80)
Cold Fur Storage in Cumilla
Burichong, Cumilla
600 m²
\$180 / day


★ 4.7 (79)
Climate Controlled Storage in Cumilla
Kaptan Bazar, Cumilla
500 m²
\$130 / day

Show more results

Cumilla, Bangladesh

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Showing 65 results

Rating Sort


★ 4.9 (323)
Refrigeration space in Cumilla
Kondirpar, Cumilla
6000 m²
\$200 / day


★ 4.8 (80)
Cold Fur Storage in Cumilla
Burichong, Cumilla
600 m²
\$180 / day


★ 4.7 (79)
Climate Controlled Storage in Cumilla
Kaptan Bazar, Cumilla
500 m²
\$130 / day

Show more results

Homepage for Vehicle Storage

Find your place in
📍 Sylhet, Bangladesh ▾

Search address, city, location

What type of storage?

Personal Room Business Storage

Climate-Controlled **Vehicle Storage**

What do you need?

I need to rent I need to host

Near your location
75 properties in Sylhet See all

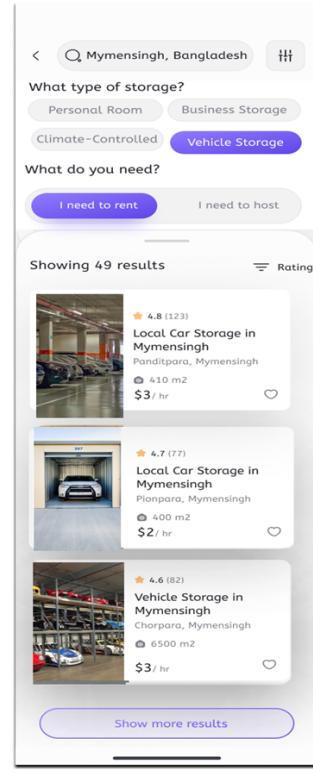
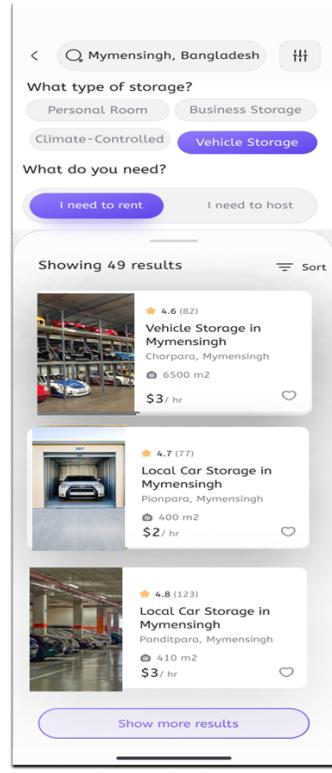
★ 4.6 (82) **Vehicle Storage in Sylhet**
Srimongol, Sylhet
6500 m²
\$3 / hr

Top rated vehicle storages in Sylhet

★ 4.9 (97) **Local Car Storage in Sylhet**
Moulvibazar, Sylhet
400 m²
\$2 / hr

Want to host your own place?
Earn passive income by renting or selling your properties!
[Become a host](#)

Home Explore Bookings Profile



Renting for Personal Room

< Property Details



Ocean view Cabin in Cox's Bazar

4.8 (73 reviews) 2 room
Kolatoli, Cox's Bazar 673 m²

 Arif Shahriar Rahman
Property owner

Home facilities See all facilities

- Air conditioner
- Kitchen
- Free parking
- Free WiFi



Nearest public facilities

 Minimarket 200m	 Hospital 130m
 Public canteen 400m	 Train station 500m

About location's neighborhood

This cabin comes with Smart Home System and beautiful viking style. You can see sunrise in the morning with City View from full Glass Window.

This unit is surrounded by business district of Cox's Bazar that offers you the city life as well as wide range of culinary.

This apartment equipped with Washing Machine, Electric Stove, Microwave, Refrigerator, Cutlery.

Living cost \$0\$/day

Reviews

 Kazim Abrar Mahi
★★★★★

My wife and I had a dream of downsizing from our house in Cape Elizabeth into a small condo closer to where we work and play in Portland. Arif and his skilled team helped make that dream a reality... [Read more](#)

 Sadia Saman
★★★★★

My husband & I have moved 6 times in the last 25 years. Obviously, we've dealt with many realtors both on the buying and selling side. I have to say that Arif is by far the BEST realtor we've ever worked with, his professionalism, personality, attention to detail, responsiveness and... [Read more](#)

Rent

< Rent booking



4.8 (73)
Ocean view Cabin in Cox's Bazar
Kolatoli, Cox's Bazar
2 room 673 m²
\$50/day

 11 Nov - 15 Nov

Guests - 1 +

Your input details

Price details More info

Staying duration (05 days)	\$250
Service fee	\$20
Total price	\$270

Place booking request

Your request is on approval. You will be notified when your request is approved or declined.

< Rent approval

Renter's name
Abdul Karim

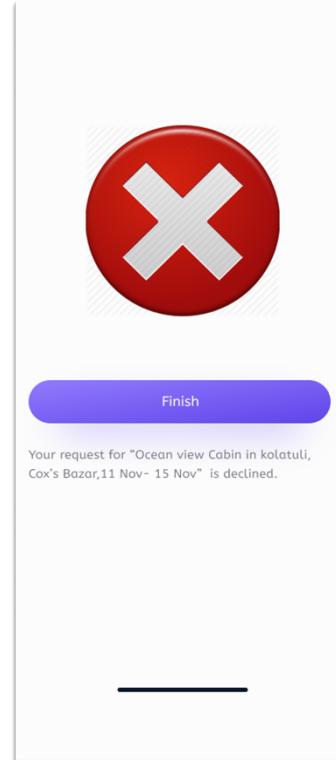
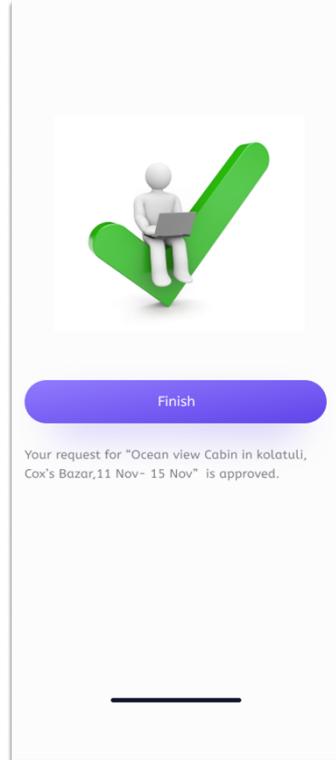
Staying date
11 Nov - 15 Nov

Price details

Staying duration (05 days)	\$250
Service fee	\$20
Total price	\$270

Approve request

Decline request



Renting for Business Storage

[Property Details](#)



Warehouse in Dhaka

4.8 (238 reviews)
Mirpur, Dhaka
5000 m²

Property owner
Mohammad Shamim Ahsan

Property facilities
Air conditioner, Free parking, Free WiFi

[See all facilities](#)



Rent

Description

Our Mirpur storage facility offers 5,000 square meter of storage space and is located within 5kms of Shahjalal Airport. Our warehouse and storage facilities offer our clients the greatest amount of freedom. We understand that adaptability and flexibility are paramount to any successful business, our facilities enable you to utilize as much or as little warehouse space as needed.

Renting cost 150\$/day

Reviews

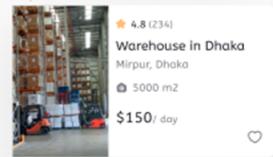
Anik Islam Pantha

Purchased a 7ft x 5ft pressure treated Pent shed on line. On the plus side the shed is decent quality. Timber looks good - a nice light colour so were able to recolour using a treatment wood stain. Fairly sturdy when put together. Overall quite happy with the shed... [Read more](#)

Soham Khisa

Just useless avoid at all costs .wish I checked out the reviews before I ordered! big lesson learned... [Read more](#)

Rent booking



4.8 (234)

Warehouse in Dhaka

Mirpur, Dhaka

5000 m²

\$150 / day



Your input details

01 Jul - 03 Jul

Rooms - 1 +

Price details

[More info](#)

Staying duration (03 days)	\$450
Service fee	\$50
Total price	\$500

Place booking request

Your request is on approval. You will be notified when your request is approved or declined.

Rent approval

Renter's name

Abdul Karim

Renting date

01 Jul - 03 Jul

Price details

Staying duration (03 days)	\$450
Service fee	\$50
Total price	\$500

Approve request

Decline request



Finish

Your request for "Warehouse in Mirpur, Dhaka, 11 Nov- 13 Nov" is approved.



Finish

Your request for "Warehouse in Mirpur, Dhaka, 11 Nov- 13 Nov" is declined.

Renting for Climate Controlled Storage

Property Details



Refrigeration space in Chittagong

4.9 (323 reviews)

Halishohor, Chittagong 6000 m²

Kazim Abrar Mahi
Property owner

See all facilities

Air conditioner
Security



Description

The refrigerated cargo industry relies very heavily on consistency. From predictable delivery schedules to temperatures being maintained at a predetermined constant throughout the cargo's journey, cold chain solutions must cater to the growing needs of the industry around the world. We believe the ideal refrigerated shipping solution will give customers end-to-end visibility and transparency of their cold cargo and so much more than simple storage and transportation.

Renting cost 200\$/day

Reviews

Arif Shahriar Rahman



This is the 2nd lot I've bought as they're so useful! Sturdy enough for their purpose & the perfect size for use inside the fridge. I can neatly fit 3 side by side on a shelf & they're the perfect depth too. I use them for fresh food & also in my cupboards for packs & tins... [Read more](#)

Sadia Saman



Ok item make sure you have a big enough fridge Use the item for other things... [Read more](#)

Rent

Rent approval

Renter's name
Abdul Karim

Renting date
23 March - 28 March

Price details [More info](#)

Staying duration (06 days)	\$1200
Service fee	\$100
Total price	\$1300

Approve request

Decline request



Finish

Your request for "Refrigeration space in Halishohor, Chittagong, 23 March-28 March" is approved.

Rent booking



Your input details

23 March - 28 March

Rooms (-) 1 (+)

Price details

[More info](#)

Staying duration (06 days)	\$1200
Service fee	\$100
Total price	\$1300

Place booking request

Your request is on approval. You will be notified when your request is approved or declined.



Finish

Your request for "Refrigeration space in Halishohor, Chittagong, 23 March-28 March" is declined.

Renting for Vehicle Storage

< Property Details



Vehicle Storage in Sylhet

4.6 (82 reviews)

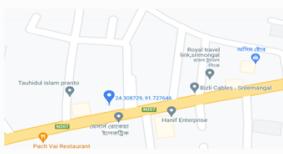
Srimongol, Sylhet 6500 m²

Anik Islam Pantha Property owner

Property facilities

Security

See all facilities



Rent

Description

These are just four words that describe the car storage service offered here. I have been dedicated to the care and security of cherished vehicles and to help remove the worries from classic and premium car ownership. Our storage is one of the leading specialist in the long-term storage and care of fine vehicles. No matter what package you choose, you will be guaranteed a first class service.

Renting cost 3\$/hr

Reviews

Soham Khisa



Service was great, Pantha worked hard to get our car from Dhaka to Sylhet always gave me updates and has a great personality to make you feel like your number 1 . Thank you Pantha....

[Read more](#)

Sadia Saman



Used multiple times , great experience... [Read more](#)

Rent

Rent booking



4.6 (82)
Vehicle Storage in Sylhet
Srimongol, Sylhet

6500 m²

\$3/ hr

Your input details

Starting date

17 Jan

Starting time

18.00

Ending date

18 Jan

Ending time

06.00

Price details

[More info](#)

Staying duration(12 hrs) \$36

Service fee \$00

Total price \$36

Place booking request

Your request is on approval. You will be notified when your request is approved or declined.

Rent approval

Renter's name

Abdul Karim

Renting date

17 Jan 18.00 ~ 18 Jan 06.00

Price details

[More info](#)

Staying duration (12 hrs) \$36

Service fee \$00

Total price \$36

Approve request

Decline request



Finish

Your request for "Vehicle Storage in Srimongol,Sylhet, 17 Jan 18.00 ~ 18 Jan 06.00" is approved.



Finish

Your request for "Vehicle Storage in Srimongol,Sylhet, 17 Jan 18.00 ~ 18 Jan 06.00" is declined.

Chat

< Property Details



Vehicle Storage in Sylhet

4.6 (82 reviews)

Srimongol, Sylhet

6500 m²

Anik Islam Pantha
Property owner

Property facilities

Security

See all facilities



14:22

Hi! May I know about your property's neighborhood?

14:24

Sure, man! You can check it from the description section of the property.

14:28

I see, thanks for informing!

14:30

Thanks for contacting me!

Type something

Current Bookings

<
All your current bookings

Personal Room Business Storage

Climate-Controlled Vehicle Storage



★ 4.8 (73)
Ocean view Cabin in
Cox's Bazar
Kolatoli, Cox's Bazar
2 room 673 m²
\$50/ day

See Details

Home Explore Bookings Profile

Hosting for Personal Room

What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

What do you need?

I need to rent I need to host

Location

Insert your location here

Pictures

Insert storage pictures

Contact Info

Insert your mobile number here

Description(optional)

Provide storage details

Rooms and beds

Bedrooms (−) 1 (+)

Washrooms (−) 0 (+)

Beds (−) 0 (+)

Property facilities See more

Any WiFi Self check-in

Kitchen Free parking

Air conditioner Security

Size(m²)

Insert size here

Price(per day)

Insert price here

Hosting for Business Storage

<
What type of storage?
Personal Room Business Storage Business Storage
Climate-Controlled Vehicle Storage

What do you need?
I need to rent I need to host

Location
Insert your location here

Pictures
Insert storage pictures

Contact Info
Insert your mobile number here

Description(optional)
Provide storage details

<
Rooms (-) 1 (+)

Property facilities See more
Any WiFi Self check-in
Free parking Security Air conditioner

Size(m²)
Insert size here

Price(per day)
Insert price here

Post

Hosting for Climate Controlled Storage

< What type of storage?

Personal Room Business Storage

Climate-Controlled Vehicle Storage

Climate-Controlled

What do you need?

I need to rent I need to host

Location

Insert your location here

Pictures

Insert storage pictures

Contact Info

Insert your mobile number here

Description(optional)

Provide storage details

< Machineries

Refrigerators - 1 +

AC - 0 +

Humidifiers - 0 +

Property facilities See more

Any Self check-in

Security

Size(m2)

Insert size here

Price(per day)

Insert price here

Post

Hosting for Vehicle Storage

< What type of storage?

Personal Room Business Storage

Climate-Controlled **Vehicle Storage**

What do you need?

I need to rent I need to host

Location

Insert your location here

Pictures

Insert storage pictures

Contact Info

Insert your mobile number here

Description(optional)

Provide storage details

< Maximum Vehicles

Cars 1 (-) (+)

Motor Cycles 0 (-) (+)

Minivans 0 (-) (+)

Property facilities [See more](#)

Any Self check-in

Security

Size(m2)

Insert size here

Price(per hr)

Insert price here

Post

Cash Payment & Confirmation

< Rent Details



★ 4.8 (73)
Ocean view Cabin in
Cox's Bazar
Kolatoli, Cox's Bazar
2 room 673 m²
\$50 / day

Your Staying Period
11 Nov - 15 Nov

Current Date
12 Nov

Current Bill More info
Staying duration (02 days) \$100
Service fee \$20
Total price \$120

Extend Staying Period

Immediate Booking Termination

< Choose payment method

Mobile Bank Cash

Amount: \$500

Confirm

< Payment Confirmation

Name: Abdul Karim
Mobile Number: 01712345678
Amount: \$500

Review

Complain

Home Explore Bookings Profile

< Payment Confirmation Pending

Renter: Abdul Karim
Amount: \$500
Phone Number: 01712345678

Confirm

< Payment Confirmation

Renter: Abdul Karim
Mobile Number: 01712345678
Amount: \$500

Complain

Home Explore Bookings Profile

Mobile Banking Payment

< Rent Details



4.8 (73)
Ocean view Cabin in Cox's Bazar
Kolatoli, Cox's Bazar
2 room 673 m²
\$50/ day

Your Staying Period
11 Nov - 15 Nov

Current Date
12 Nov

Current Bill
More info

Staying duration (02 days)	\$100
Service fee	\$20
Total price	\$120

Extend Staying Period

Immediate Booking Termination

< Choose payment method

Mobile Bank Cash

Mobile Number:
01712345678

Amount:
\$500

Enter TRx ID:
123 Insert TRx ID

Confirm

<



Payment Confirmation

Name: Abdul Karim
Mobile Number: 01712345678
Amount: \$500
TRx ID: CD59ER

Review

Complain

Review & Complain

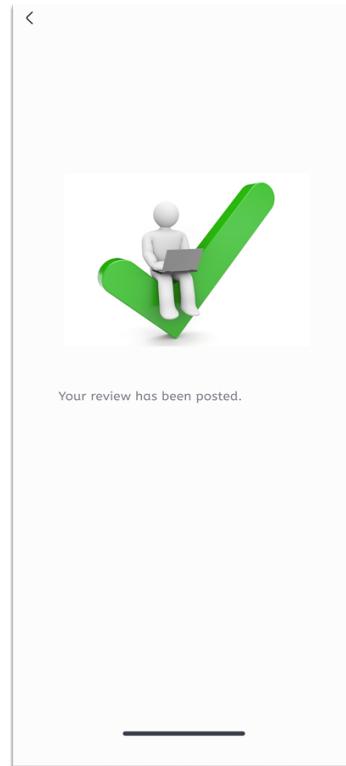
<

Rating
(-) 1 (+)

Write your experience

Post

—

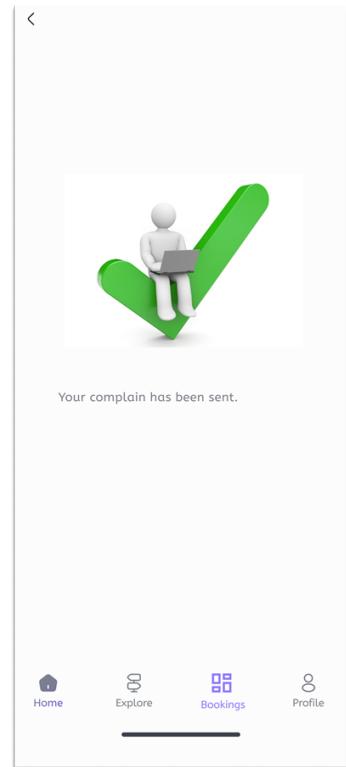


<

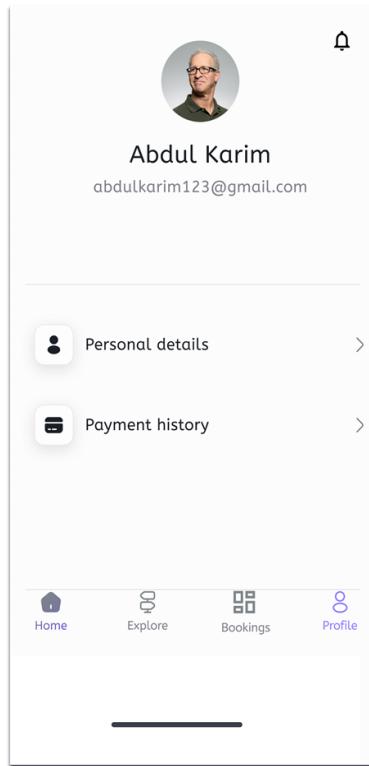
Write your complain

Send

—



Profile



Explore

Search address, city, location  

Explore Personal Room

[See all](#)



Feni, Bangladesh
345 rented props



Sylhet, Bangladesh
290 rented props

Explore Business Storage

[See all](#)



Bogra, Bangladesh
123 rented props



Rangpur, Bangladesh
99 rented props

Explore Climate Controlled

[See all](#)



Cumilla, Bangladesh
301 rented props



Khulna, Bangladesh
175 rented props

Explore Vehicle Storage

[See all](#)



Barisal, Bangladesh
221 rented props



Kustia, Bangladesh
190 rented props

Personal details

abdulkarim123@gmail.com

Personal details

Payment history

Home Explore Bookings Profile

Full Name

Email

Password

Phone number

Date Of Birth

31-03-1980

Payment History

The image shows a mobile application interface. On the left, there is a vertical sidebar with a user profile picture of a man with glasses, the name "Abdul Karim", and the email "abdulkarim123@gmail.com". Below this are two menu items: "Personal details" and "Payment history", each with a small icon and a right-pointing arrow. At the bottom of the sidebar are four navigation icons labeled "Home", "Explore", "Bookings", and "Profile". On the right, the main content area has a header "Payment history" with a back arrow. Below it is a table with columns: TRANSACTION WITH, STATUS, PRICE, and DATE. The table contains five rows of transaction data.

TRANSACTION WITH	STATUS	PRICE	DATE
Arif Shahriar Rahman	Sent	\$450	11/03/2020
Kazim Abrar Mahi	Received	\$500	25/07/2021
Sadia Saman	Received	\$800	18/04/2021
Anik Islam Pantha	Sent	\$700	30/11/2020
Anik Islam Pantha	Sent	\$650	07/09/2021

Implemented Use-Case/Module

We have implemented several use cases in our demonstration. These use cases are:

1. Registration
2. Log In
3. Hosting
4. Search

We have implemented the system in Django. We have followed MVT architecture as Django was used. For the database, we have used sqlite3. The front end was designed using HTML, CSS, Bootstrap, and JS. Some snippets of the implemented use cases are given below.

User Class

```
class User(models.Model):
    name = models.CharField(max_length=50)
    email = models.EmailField(max_length=254)
    password = models.CharField(max_length=50)
    nid_number = models.IntegerField()
    date_of_birth = models.DateField()
    phone_number = models.CharField(max_length=50)
    location = models.CharField(max_length=50, choices=location_choices, blank=True)

    def __str__(self):
        return self.name
```

Storage Abstract Class

```
class Storage(models.Model):
    user_id = models.ForeignKey('User.User', on_delete=models.CASCADE)
    property_name = models.CharField(max_length=100)
    description = models.CharField(max_length=100)
    location = models.CharField(max_length=100)
    location_district = models.CharField(max_length=255, choices=location_choices, default='none')
    size = models.IntegerField()
    # TODO: ADD IMAGE FIELD
    created_at = models.DateTimeField(auto_now_add=True)
    updated_at = models.DateTimeField(auto_now=True)

    class Meta:
        abstract = True
```

Welcome page



We are The Spacey Team

[Login](#)

or

[Register](#)

New Place, New Space!

Are you ready to visit and start over in new area?
Spacy will help you on your way there!

Login

Welcome back!

Login to your Spacey account

Email

Password

[Log in](#)

[Forgot password?](#)

[Don't have an account?](#)

[Register](#)



Registration

Registration Form

Name*

Email*

Password*

Nid number*

Phone number*

Location

Date of birth*

Register

Homepage

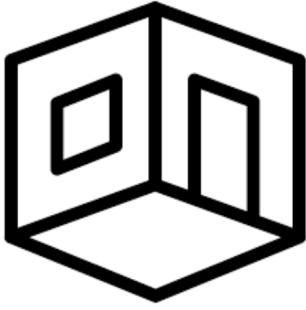
Home Host Profile Log Out Choose... Search

		
Locker Service High security Locker,2	Store 4 Trucks Garage for trucks	My Sweet Home My sweet home is a two storied home with modern facilities and securities, adjacent to the town.

Hosting: Page 1

Home Host Profile Log Out Choose... Search

What type of space would you like to host?



Personal Room
Have extra rooms in your home? Share these rooms with us!
[Host Personal Room](#)



Business Storage
Some extra rooms in your office? or a locker you are not using? You can host here!
[Host Business Storage](#)



Hosting: Page 2

Host Personal Room

Property name*

Description*

Location Description*

District*

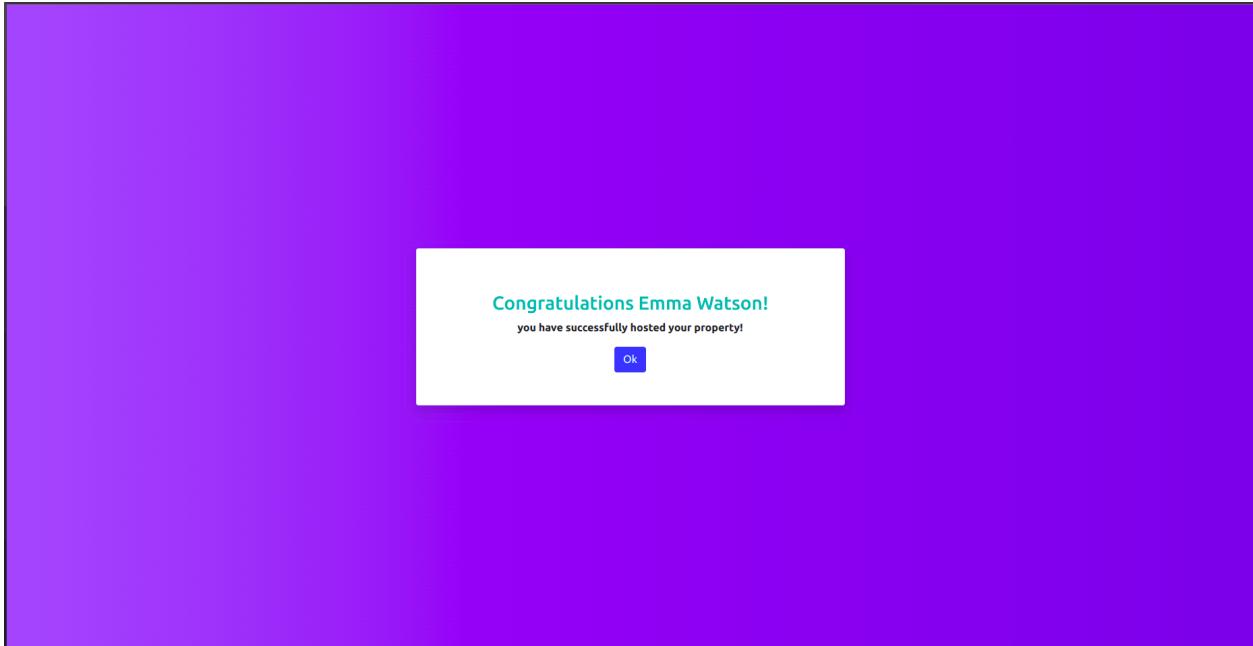
Size (sq. ft.)*

Max guest

Price per day*

No file chosen

Hosting: Successful



Search

The screenshot shows a search results page with a dark header bar containing "Home", "Host", "Profile", "Log Out", a dropdown menu labeled "Choose...", and a search input field with the placeholder "Search". Below the header, there are two property cards:

- My Sweet Home**
My sweet home is a two storied home with modern facilities and securities, adjacent to the town.
- Nilachol**
nilachol is a home in rural areas