



**TCP 2201 project**  
**Trimester 1 , 2021/2022**

**Team leader: RASUL YEA BARI SUNBEAM**

**Lecture Section: TC2V**  
**Lecturer: Soo Wooi King**  
**Assignment: Cyberjaya Online Rental Management System**

**Group Assignment - Group 15**

**Team member:**

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Tee Wei Jun	1201300917	1201300917@student.mmu.edu.my

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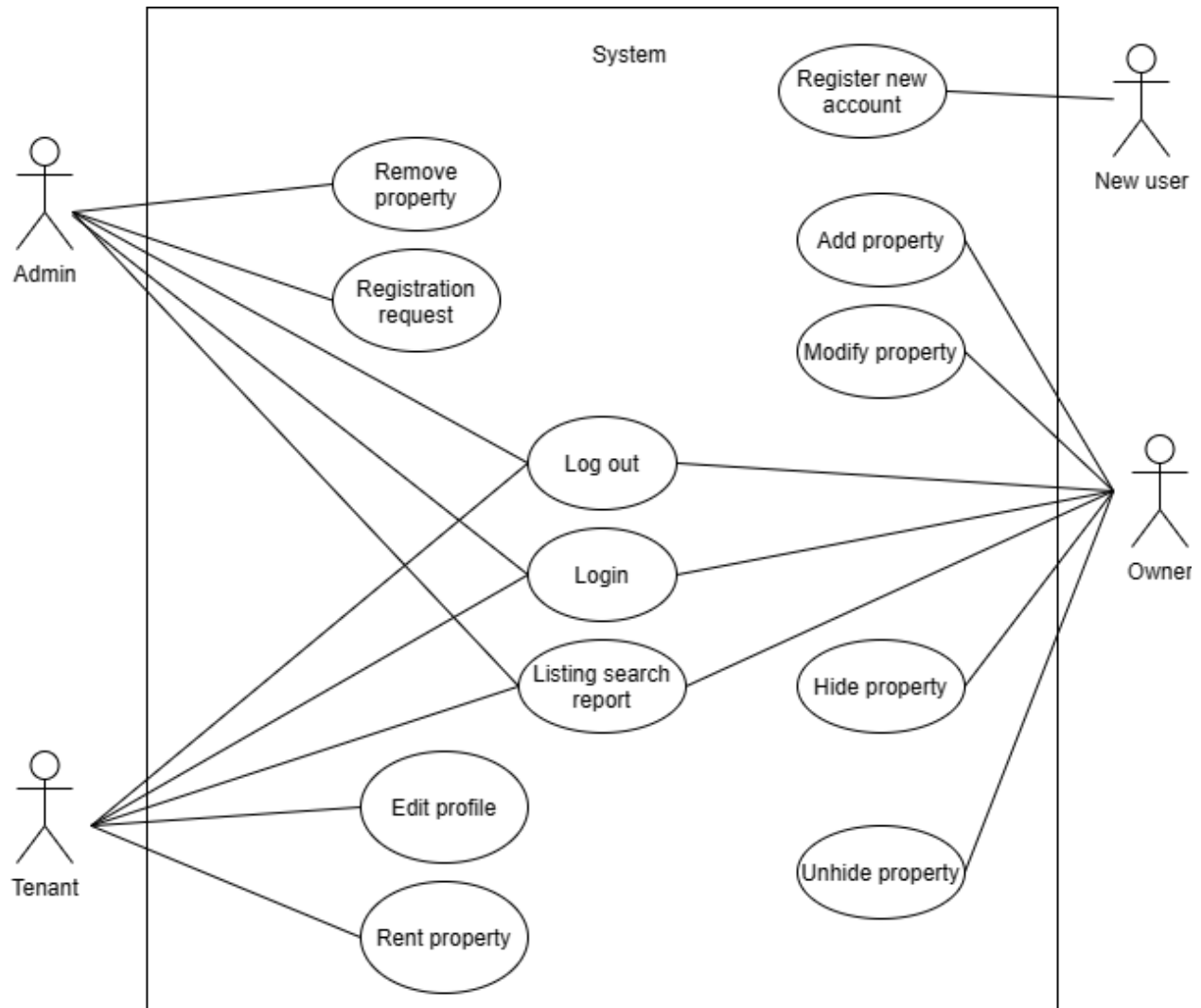
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## **Introduction**

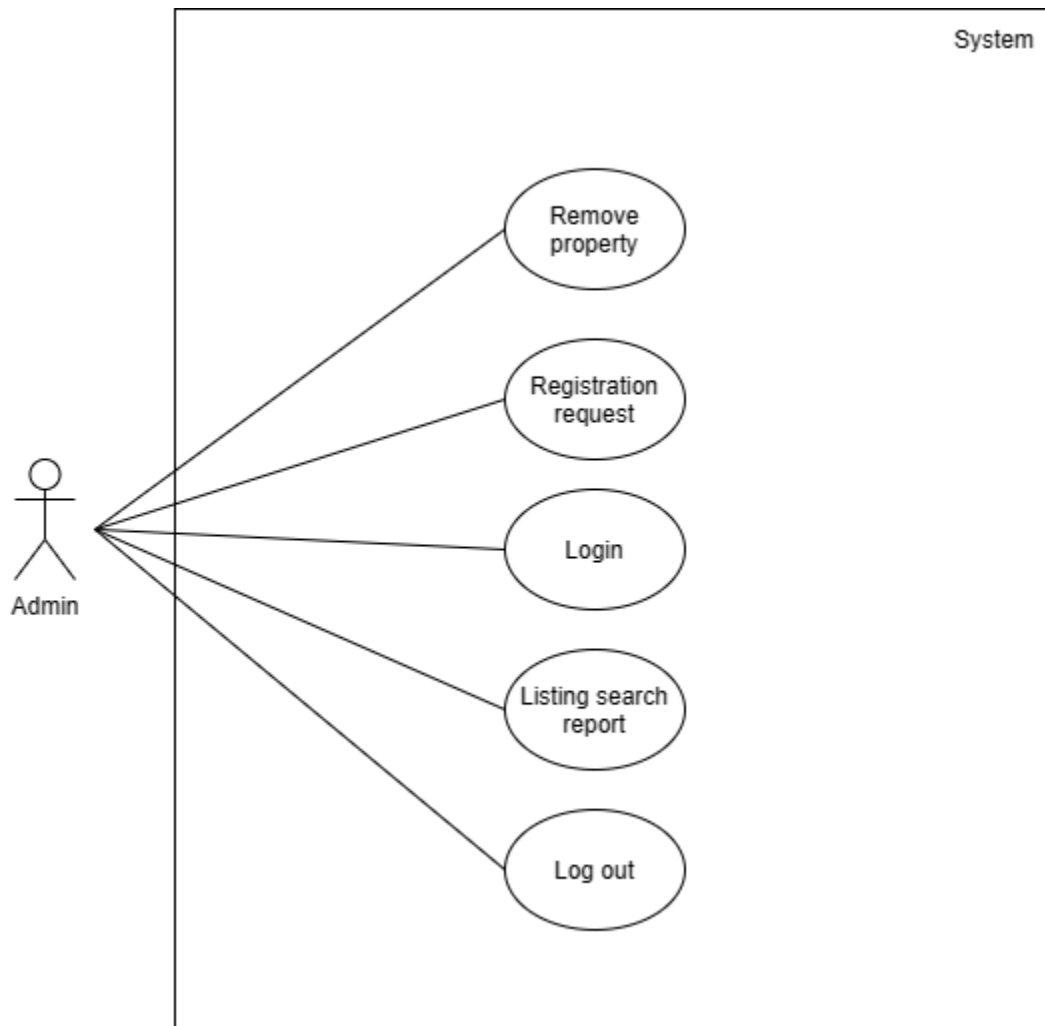
Cyberjaya Online Rental Management System is an online tool for owners and potential tenants in Cyberjaya to rent out or to rent a property. Cyberjaya to rent out or to rent a property. Each property owner will be provided an owner or agent account by the administrator. The owner and agent can upload the content of a property for rent to the system, and publish it to the registered potential tenant who registered with the system. The content can be modified later if necessary. The property is categorized according to different types of property such as condominium, service resident , apartment. Each property will be assigned a special ID. Each user is given a login username and password by the administrator. Users can view the list of projects offered in their view board. The view board lists the property based on property type. The owner/agents can also deactivate their property to be hidden from users' view boards. The administrator can create more administrator accounts. All administrators can view and leave comments to all the properties, delete or add properties.

Team members:  
Tee Wei Jun , 1201300917@student.mmu.edu.my  
Sumaya Sarker Snigdha, 1191301017@student.mmu.edu.my

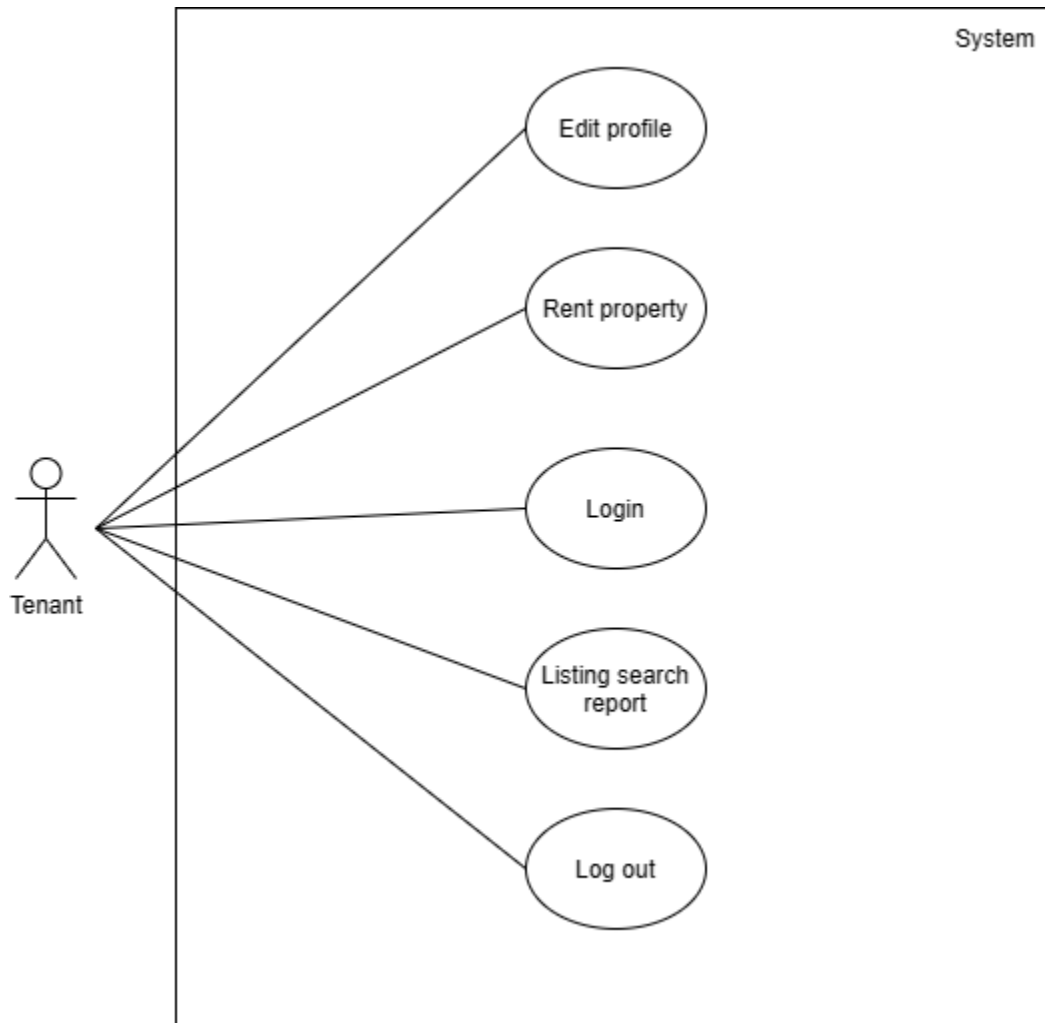
## Use Case Diagrams



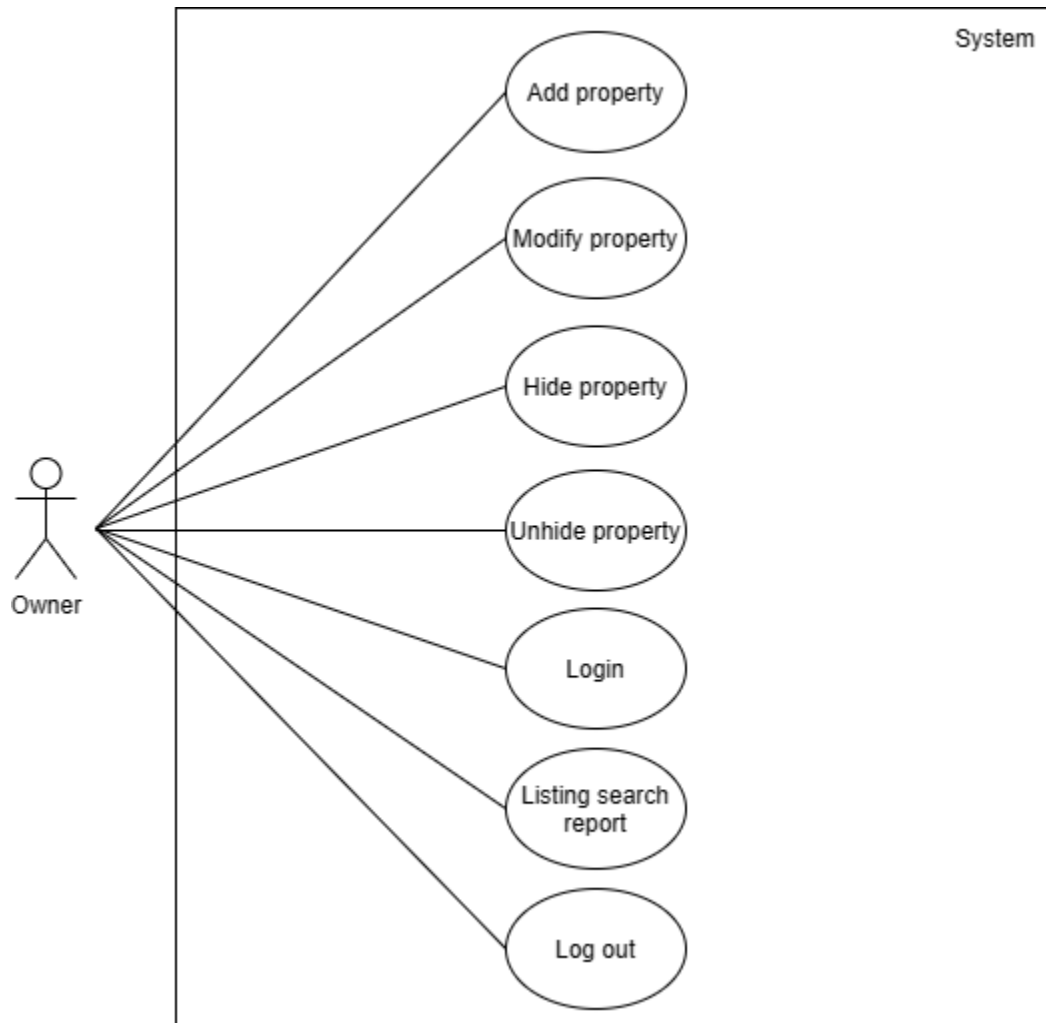
## Admin



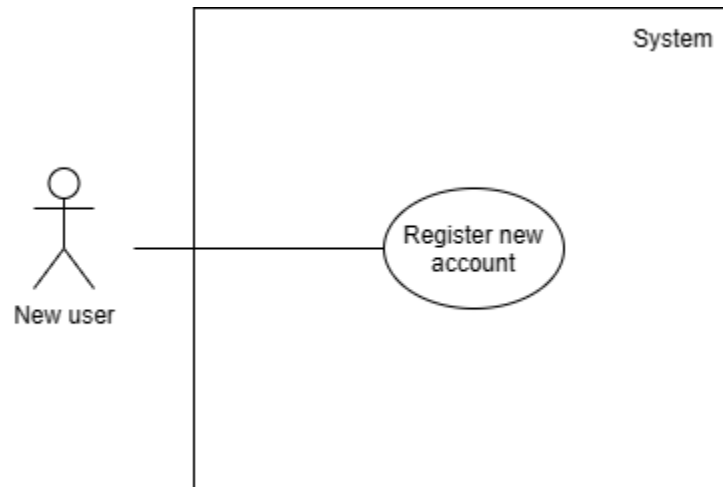
## Tenant



## Owner



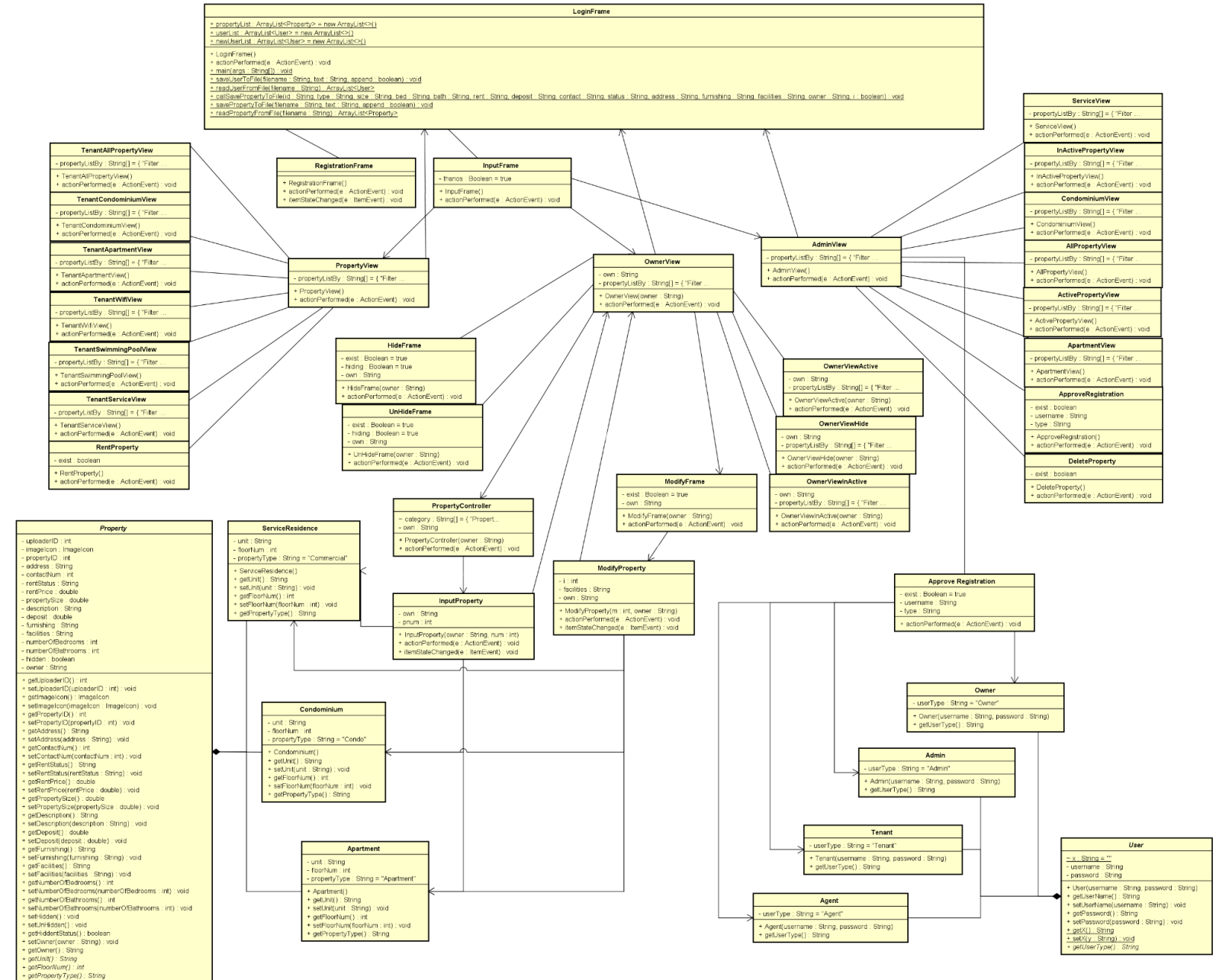
## New user





## Class diagram (UML)

pkg



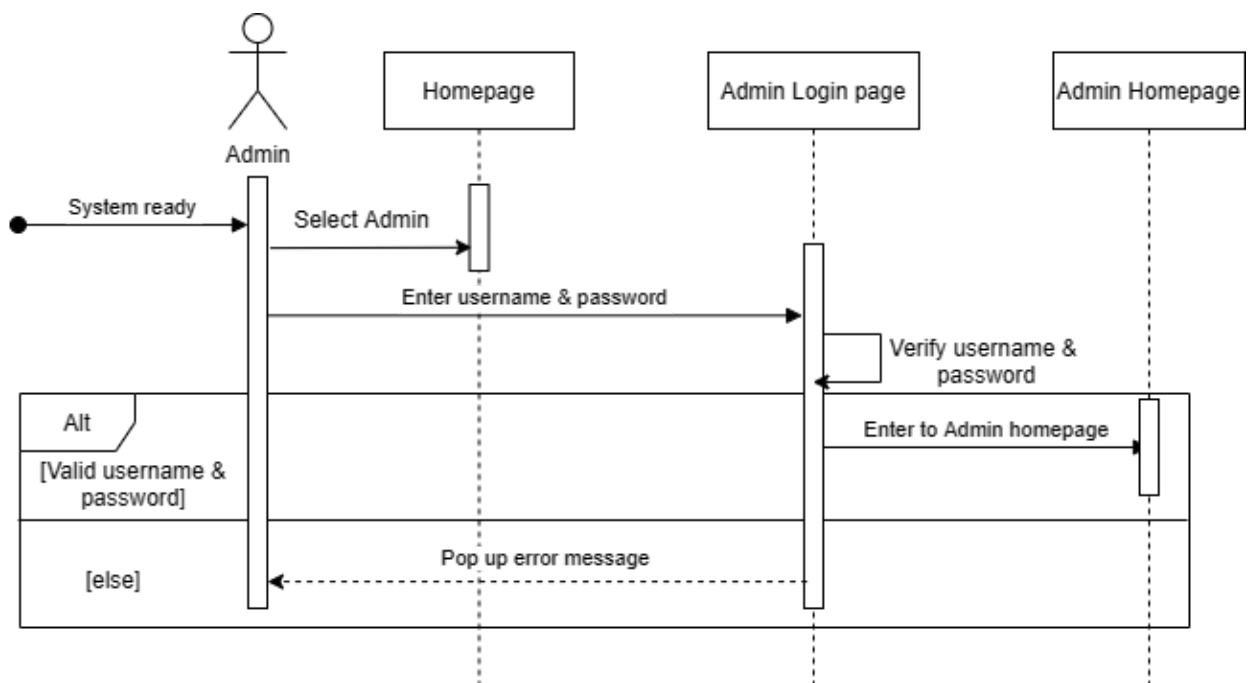
For a better quality please check Report Folder to get the Class Diagram in png format

## Sequence diagram

### 1. Admin

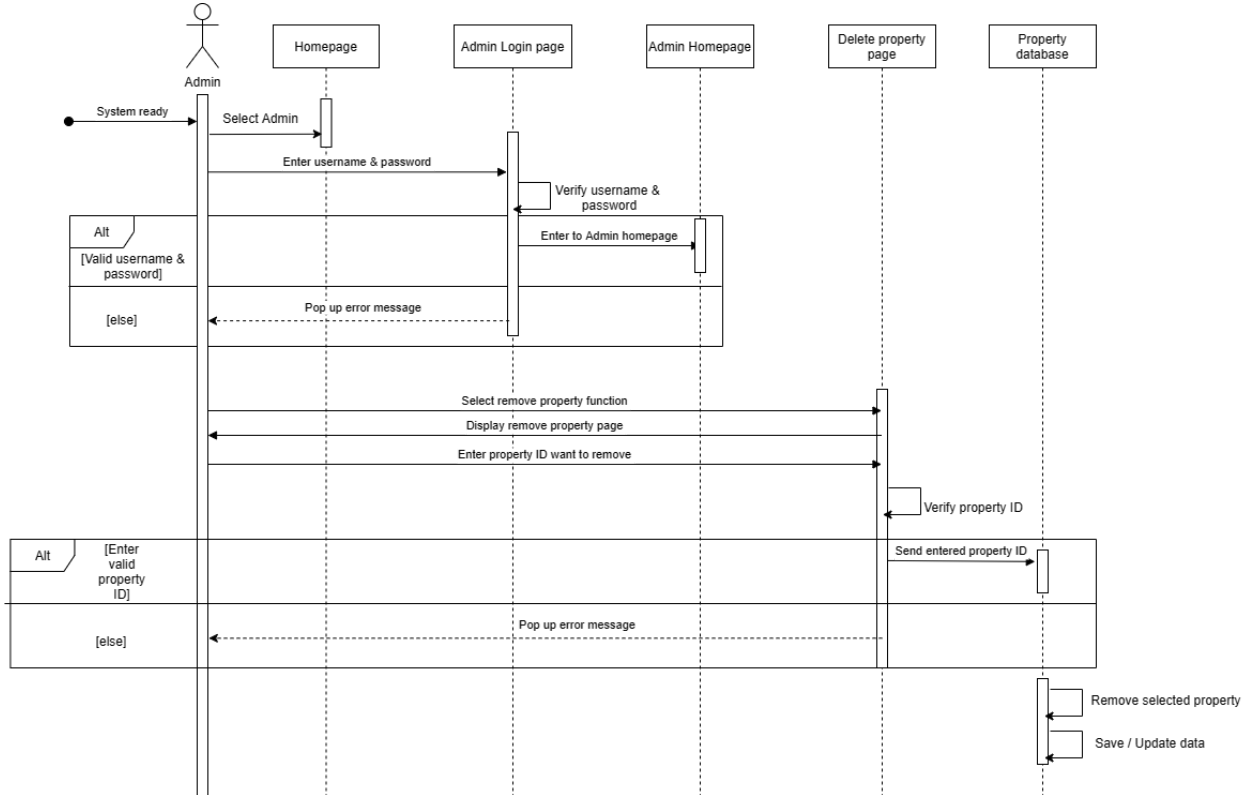
#### 1.1 Login (Admin)

The diagram shows how the admin logs into the system. Admin need to first select the admin in the homepage and then enter the correct username and password. The admin login page will verify the username & password before the admin can enter the admin homepage. If the username and password are wrong then the system will pop up an error message and ask him to enter again.



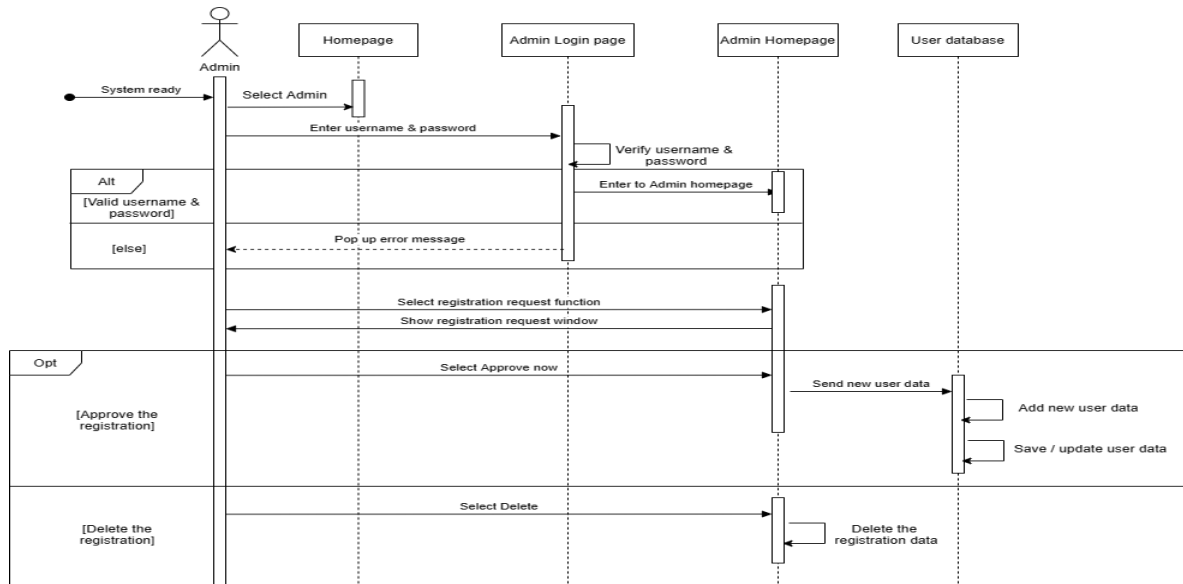
#### 1.2 Remove property (Admin)

The diagram shows how the admin removes property. After successfully login into the admin homepage. Admin can select remove property function , a window will pop up to let admin select which property to remove with property ID. The system will verify if the ID is valid or not , if the ID is not valid then an error message will pop up asking the admin to enter again. If the ID is valid , then the system will send the ID into the property database to delete the property selected , then the database will save and update.



## 1.3 Registration request (Admin)

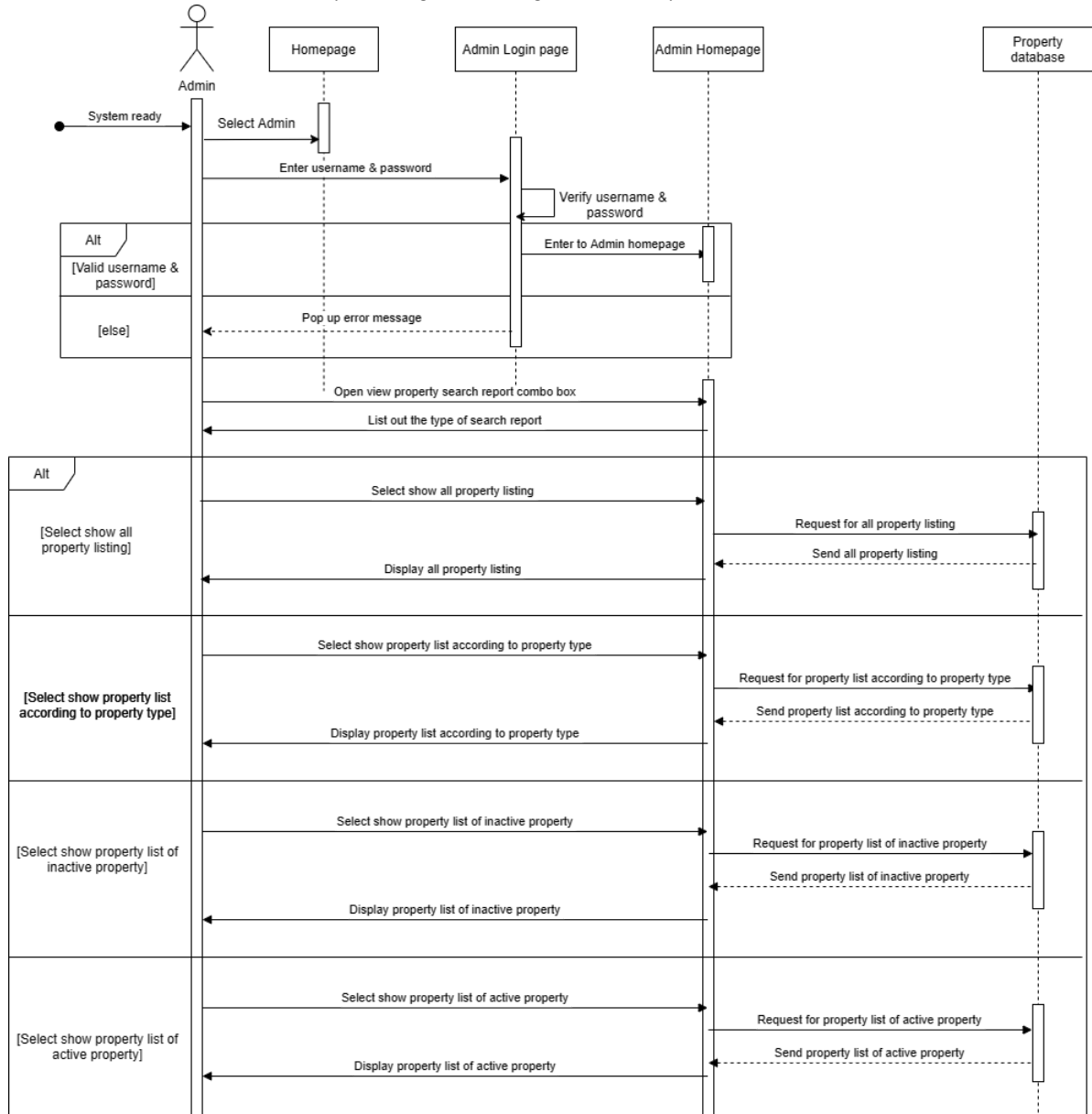
The diagram below shows how the admin handles registration requests. After logging into the system , the admin can select the registration request function. After selecting , the registration request window will pop up and show the registration request. The admin can either select approve now to approve the registration and add the user into the user database or delete the registration request.



## 1.4 Show view property search report (Admin)

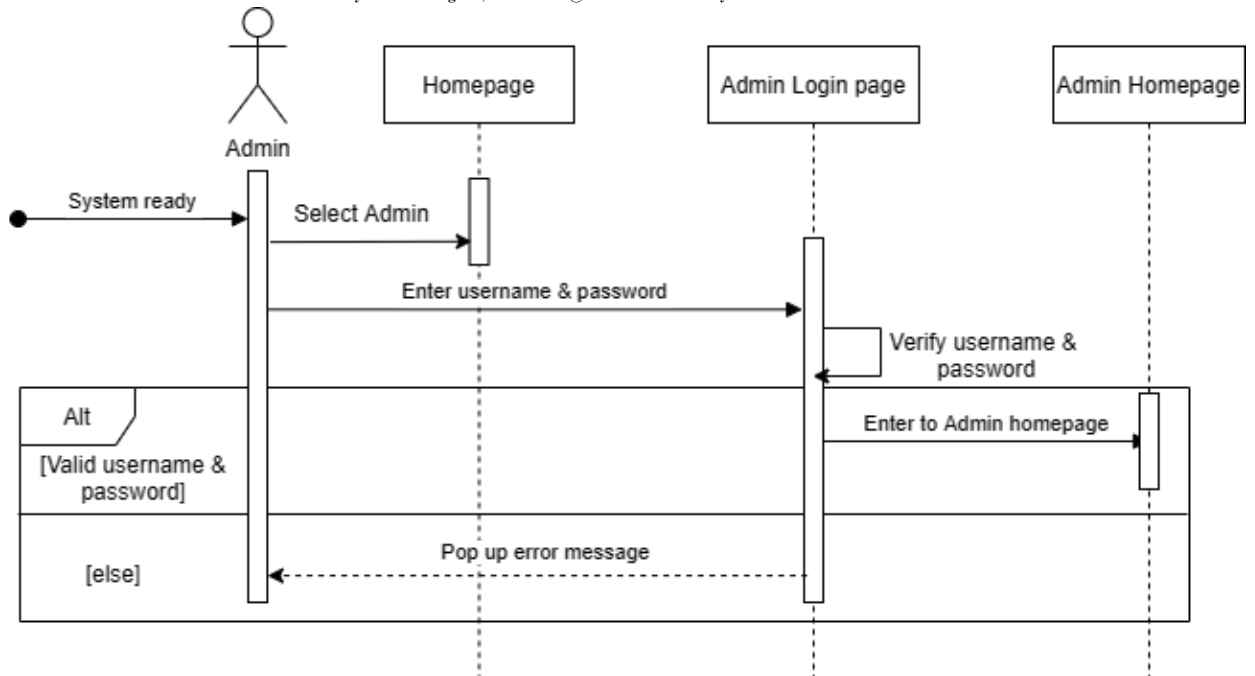
The diagram shows how the admin views the property search report. After log into the admin homepage , the admin can open the combo box and choose which search report he wants to look at. There are eight kinds of reports admin can choose from such as show all property , property list according to property type , property list of inactive property and property list of active property. After selecting the data from the property database will send the data and show it on the admin main page.

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## 1.5 Log out (Admin)

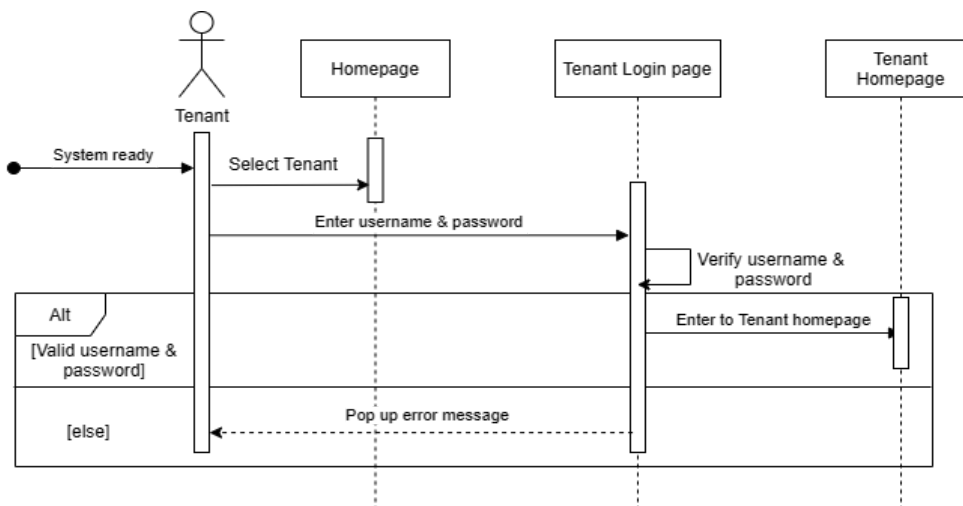
The diagram shows how the admin logs out from the system. The admin need to select the log out function then the system will automatically bring out to the main page.



## 2. Tenant

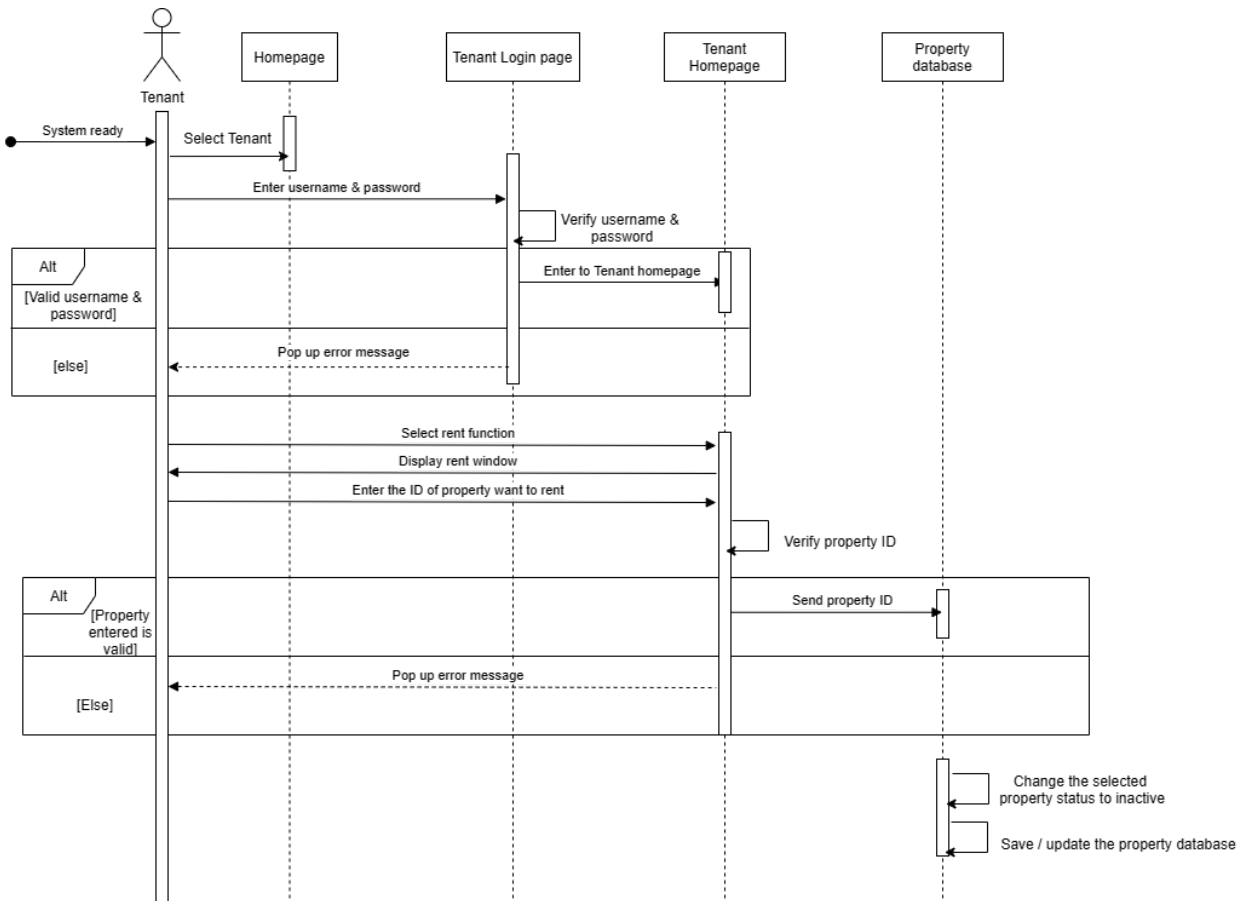
### 2.1 Log in (Tenant)

The diagram shows how the tenant logs into the system. Tenants need to first select the tenant in the homepage and then enter the correct username and password. The tenant login page will verify the username & password before the tenant can enter the tenant homepage. If the username and password are wrong then the system will pop up an error message and ask him to enter again.



## 2.2 Rent (Tenant)

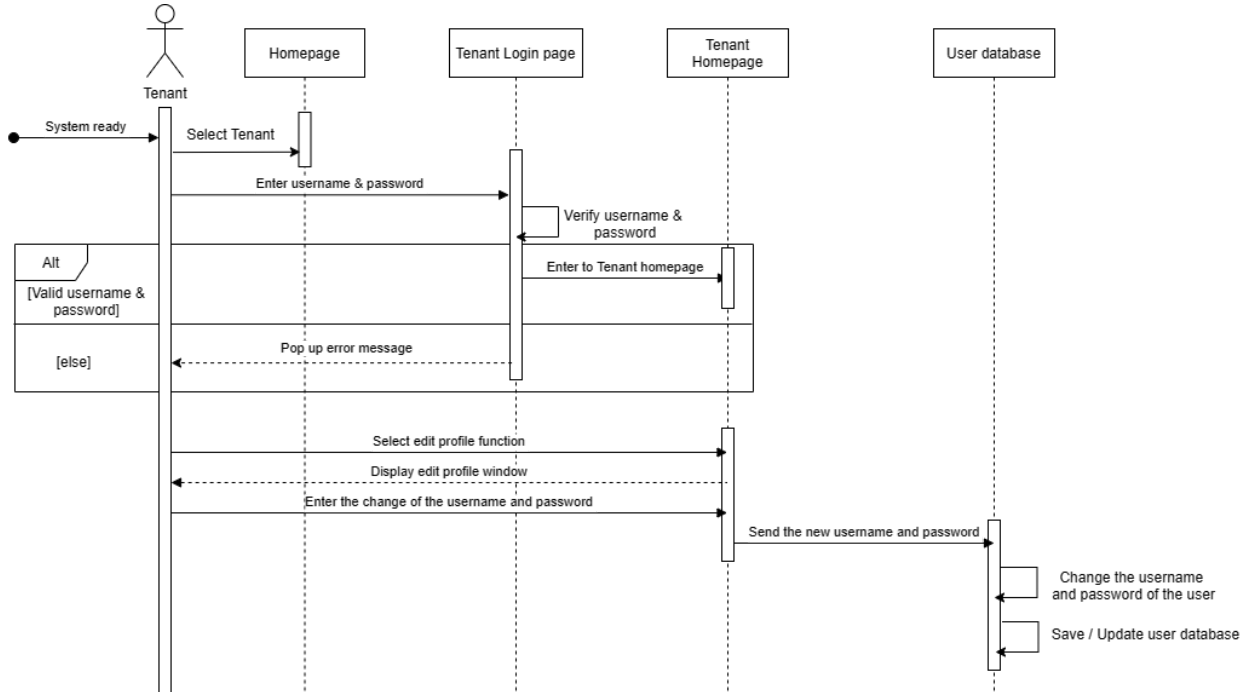
The diagram shows how the tenant rents property from the database. After the tenant logs into the tenant homepage, the tenant needs to select the rent property function, then a window will pop up to let the owner enter the ID of the property that needs to be rented. The system will verify if the ID entered is valid or not, if the ID is not valid then an error message will pop up and let the owner enter again. If the ID is valid, the ID will be sent to the property database to change the status of the selected property to inactive to show it is rented.



## 2.3 Edit Profile (Tenant)

This diagram shows how the tenant edits the user profile. After log into the tenant homepage, the tenant can choose the edit profile function and the edit profile window will pop up and tenants are able to enter the new username and password. After submission ,

**the new username and password will be brought to the user database and changed, then saved and updated in the user database.**

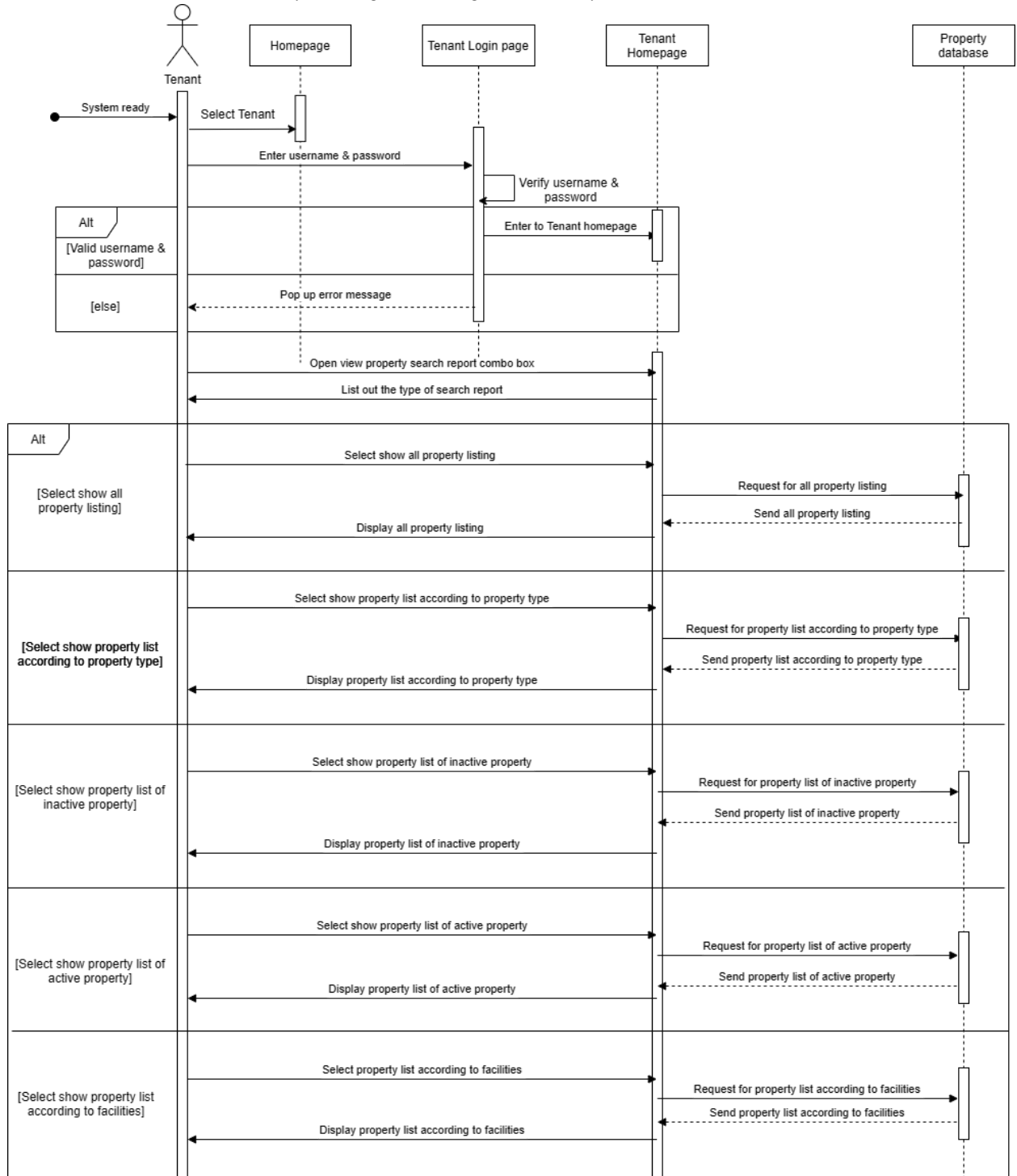


## 2.4 Show view property search report (Tenant)

The diagram shows how the tenant views the property search report. After log into the tenant homepage, the tenant can open the combo box and choose which search report he wants to look at. There are eight kinds of reports tenants can choose from such as show all property, property list according to property type, property list of inactive property, property list of active property, property list according to facilities and sort property list according to rental price. After selecting the data from the property database will send the data and show it on the tenant main page.

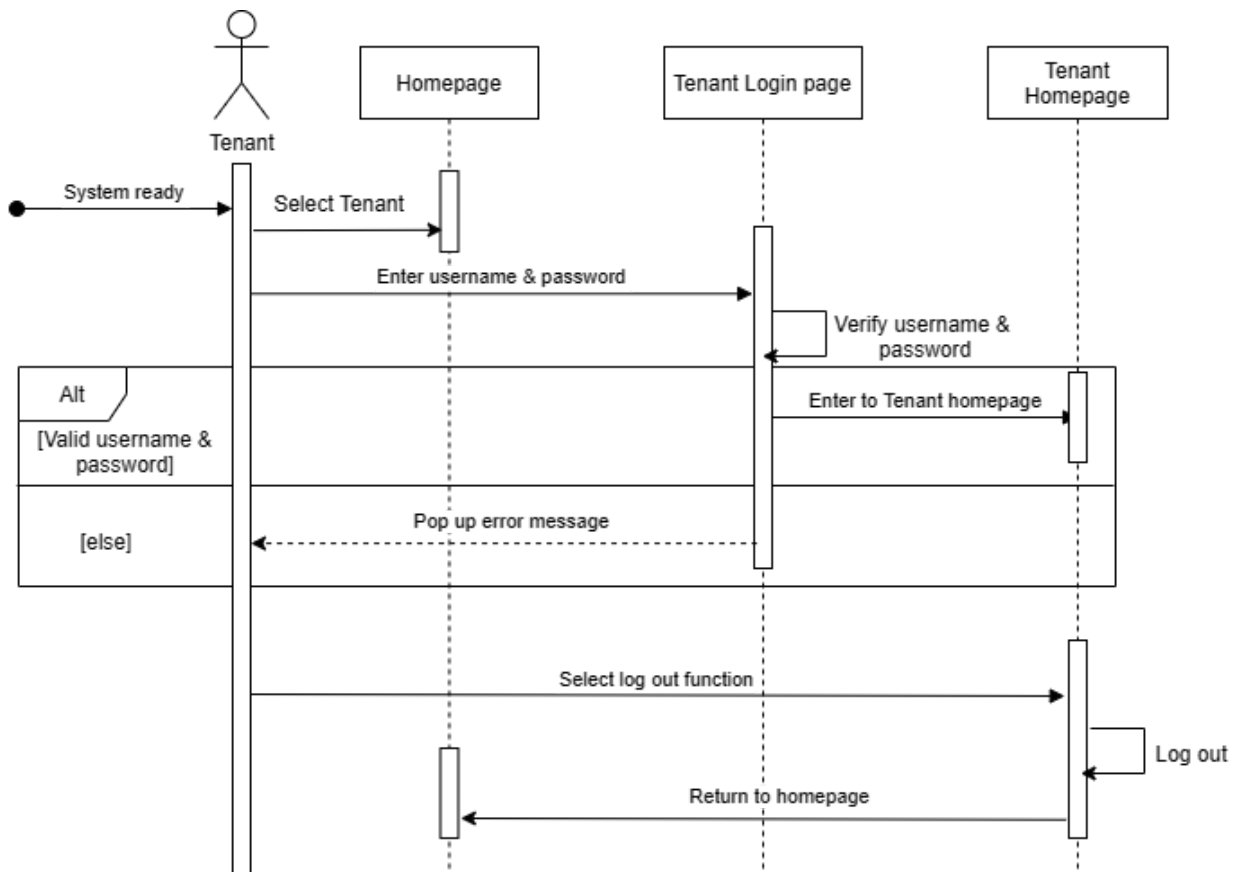


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Sumaya Sarker Snigdha, 1191301017@student.mmu.edu.my



## 2.5 Log out (Tenant)

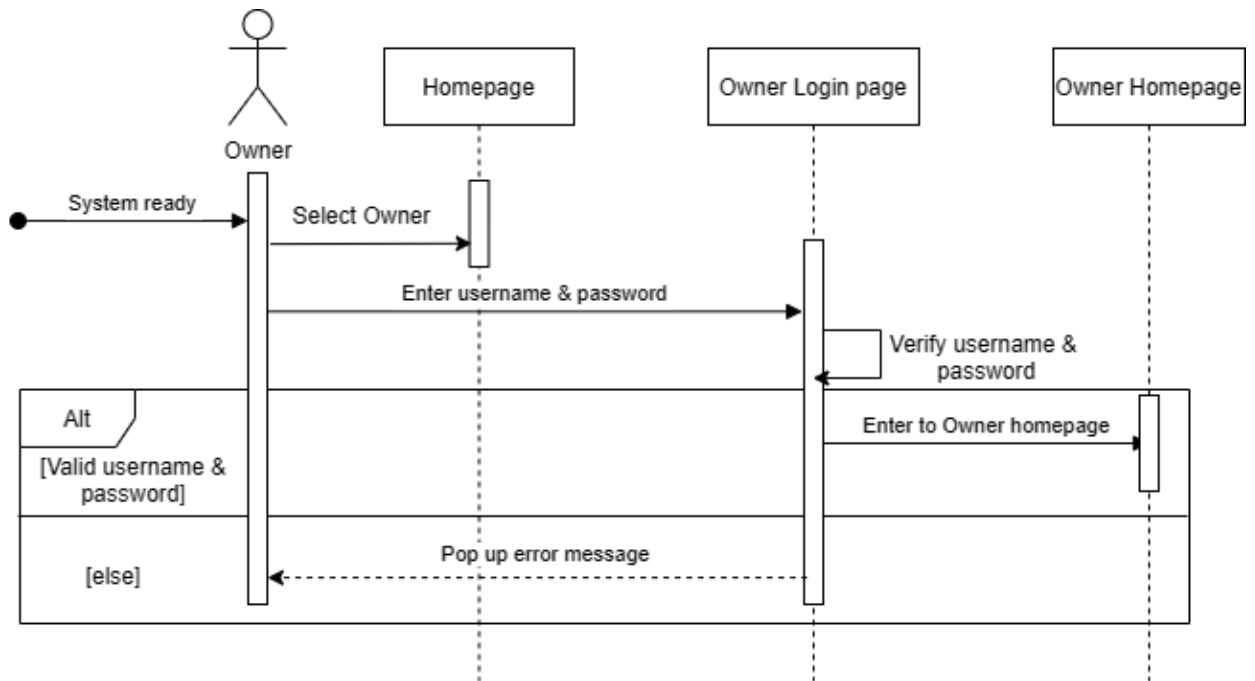
The diagram shows how the tenant logs out from the system. The tenant needs to select the log out function then the system will automatically bring out to the main page.



### 3. Owner

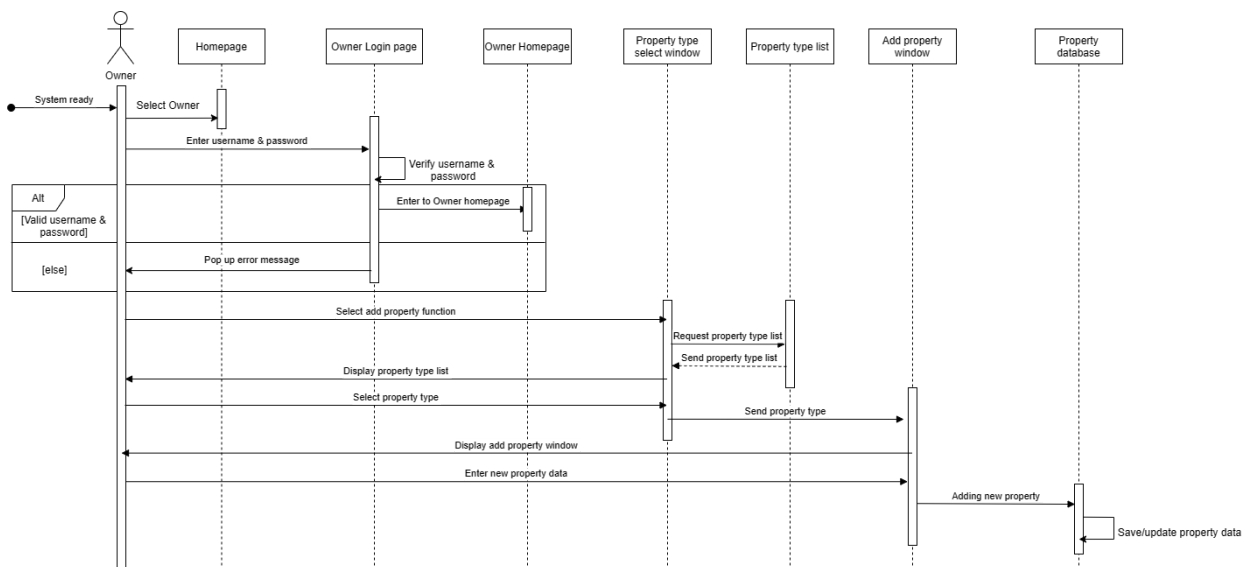
#### 3.1 Login (Owner)

The diagram shows how the owner logs into the system. Owner need to first select the owner in the homepage and then enter the correct username and password. The owner login page will verify the username & password before the owner can enter the owner homepage. If the username and password are wrong then the system will pop up an error message and ask him to enter again.



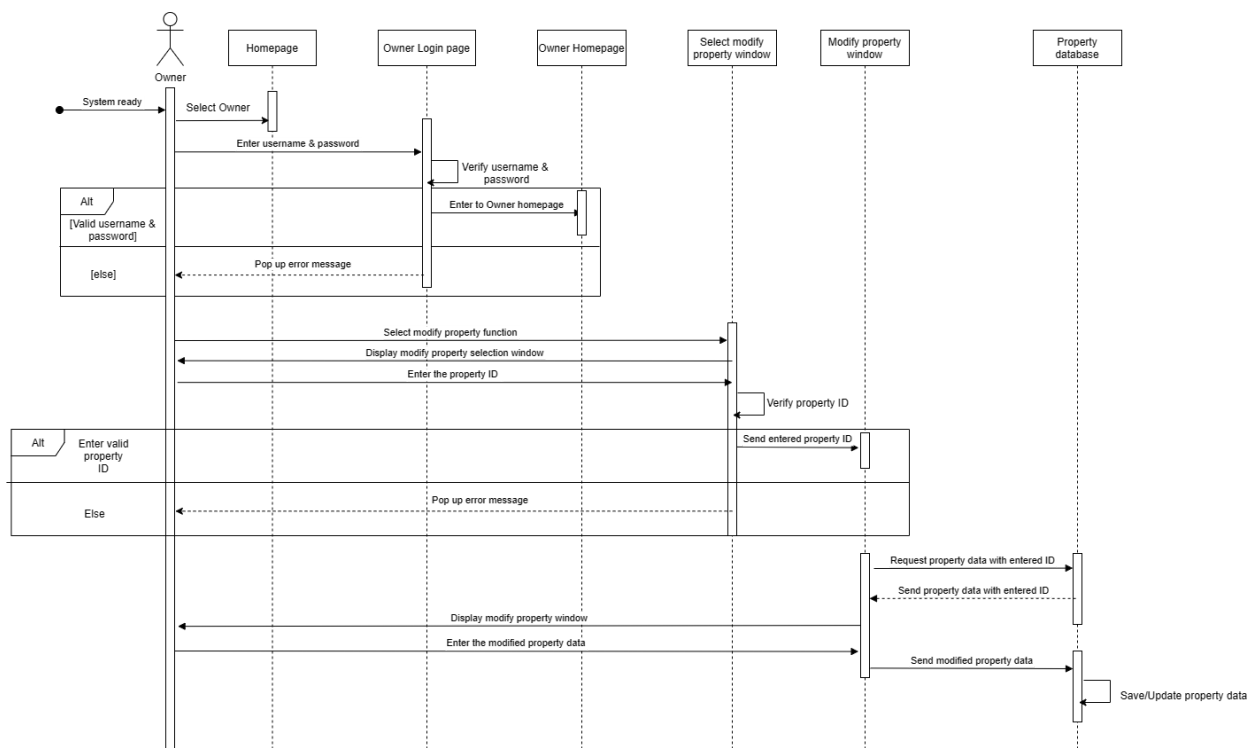
### 3.2 Add property (Owner)

The diagram shows how the owner adds property into the database. After the owner logs into the owner homepage, the owner needs to select the add property function, then a window will pop up to let the owner choose the type of the new property. After that, a window will pop up to let the owner enter the data of the new property. Then after submission, the data will be sent to the property database to save and update.



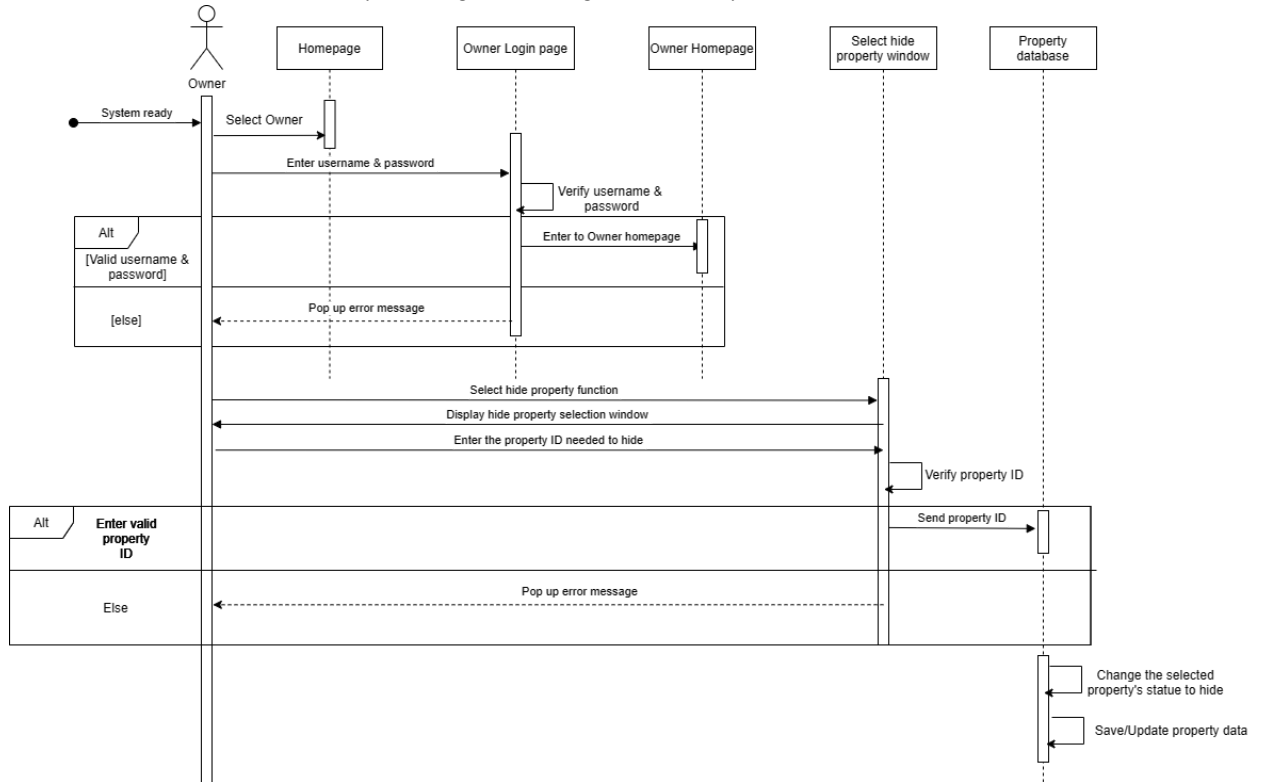
### 3.3 Modify property (Owner)

The diagram shows how the owner modifies property from the database. After the owner logs into the owner homepage , the owner needs to select the modify property function , then a window will pop up to let the owner enter the ID of the property that needs to be modified. The system will verify if the ID entered is valid or not , if the ID is not valid then an error message will pop up and let the owner enter again. If the ID is valid , a window will pop up with the data of the selected property from the property database and let the owner modify the data of the property . Then after submission , the data will be sent to the property database to save and update the selected property.



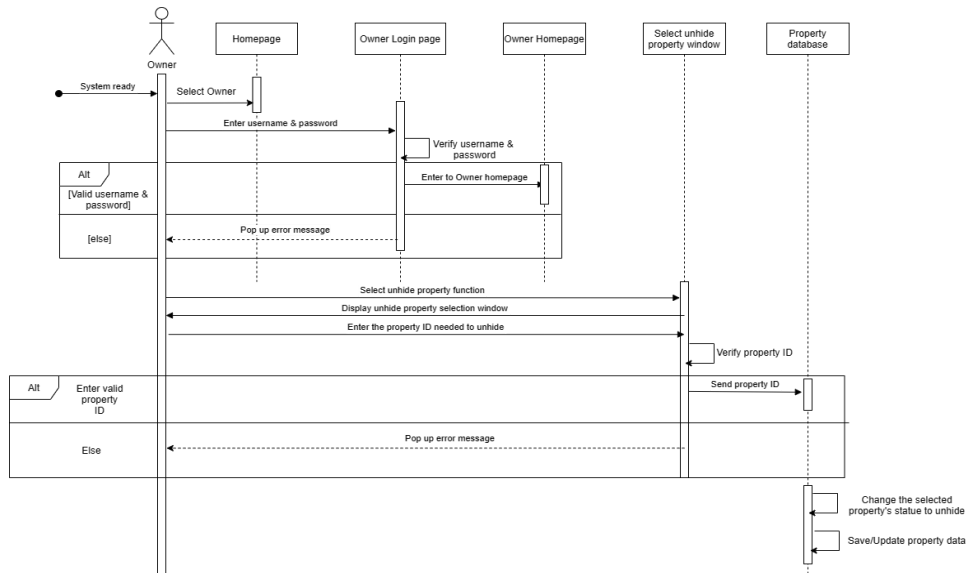
### 3.4 Hide property (Owner)

The diagram shows how the owner hides property from the database. After the owner logs into the owner homepage , the owner needs to select the hide property function , then a window will pop up to let the owner enter the ID of the property that needs to be hidden. The system will verify if the ID entered is valid or not , if the ID is not valid then an error message will pop up and let the owner enter again. If the ID is valid , the ID will be sent to the property database to change the status of the selected property to hidden.



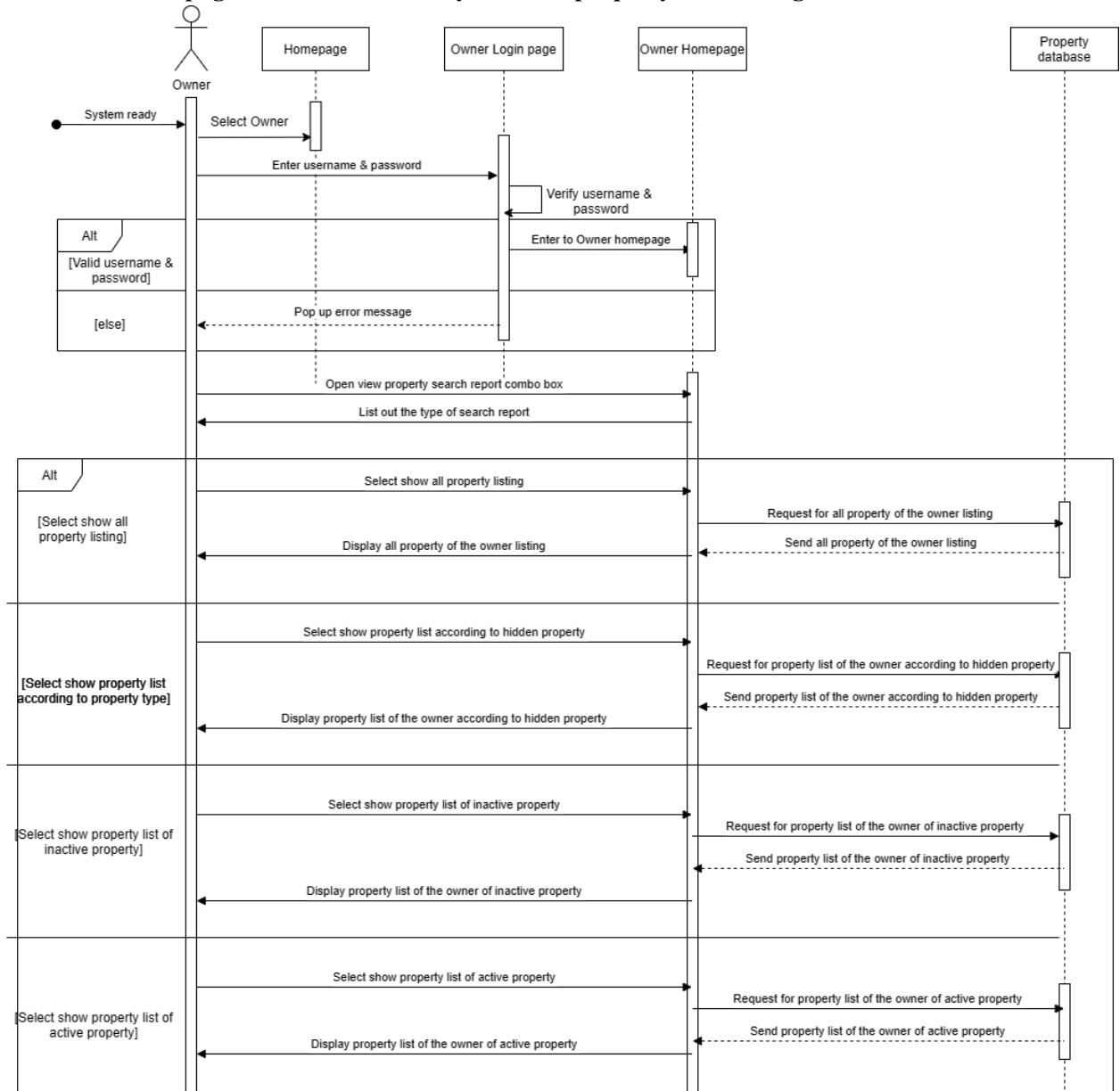
### 3.5 Unhide property (Owner)

The diagram shows how the owner unhides property from the database. After the owner logs into the owner homepage , the owner needs to select the unhide property function , then a window will pop up to let the owner enter the ID of the property that needs to be unhidden. The system will verify if the ID entered is valid or not , if the ID is not valid then an error message will pop up and let the owner enter again. If the ID is valid , the ID will be sent to the property database to change the status of the selected property to unhide.



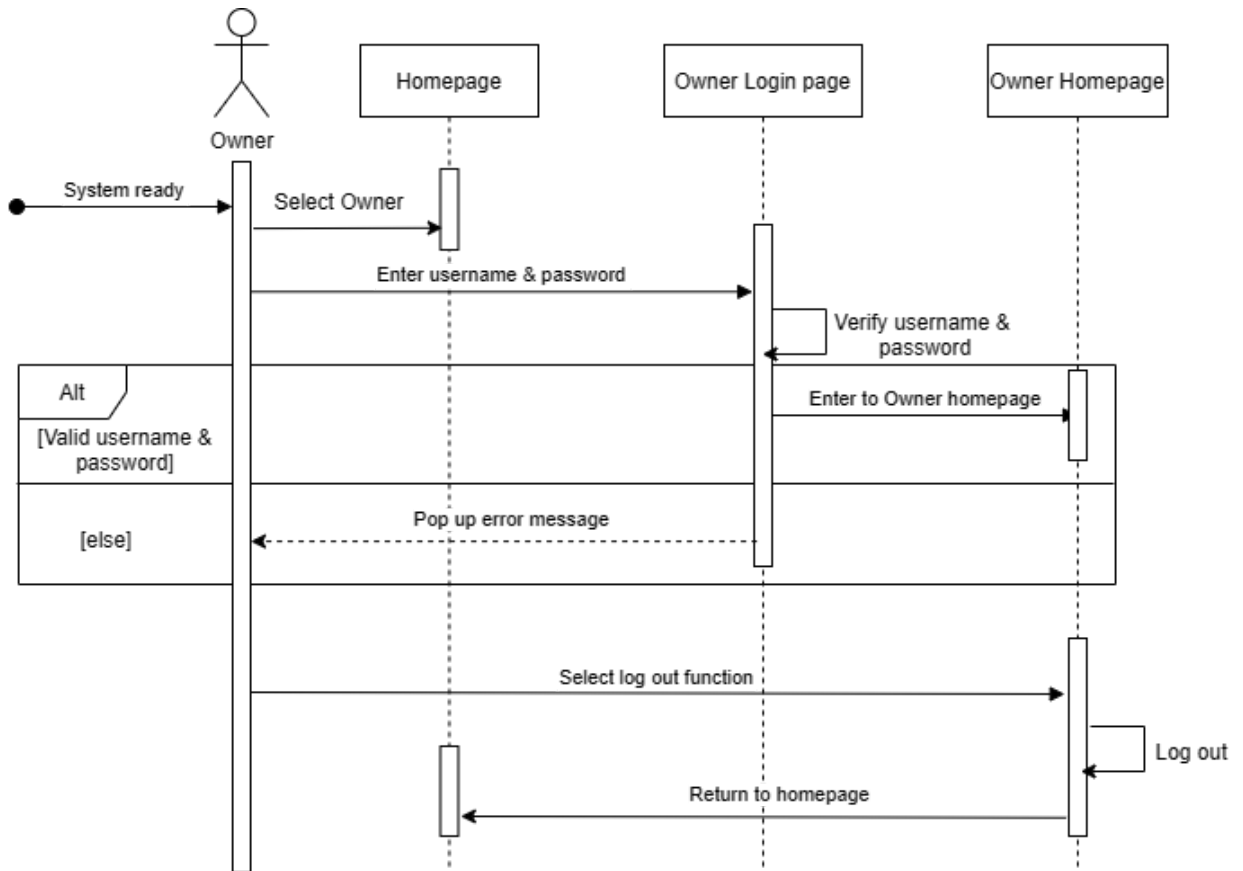
### 3.6 Show view property search report (Owner)

The diagram shows how the owner views the property search report. After logging into the owner homepage, the owner can open the combo box and choose which search report he wants to look at. There are eight kinds of reports owners can choose from such as show all property, property list according to property type, property list of inactive property, property list of active property and property list of hidden property according to rental price. After selecting the data from the property database will send the data and show it on the tenant main page. The owner can only view the property that belongs to them.



### 3.7 Log out (Owner)

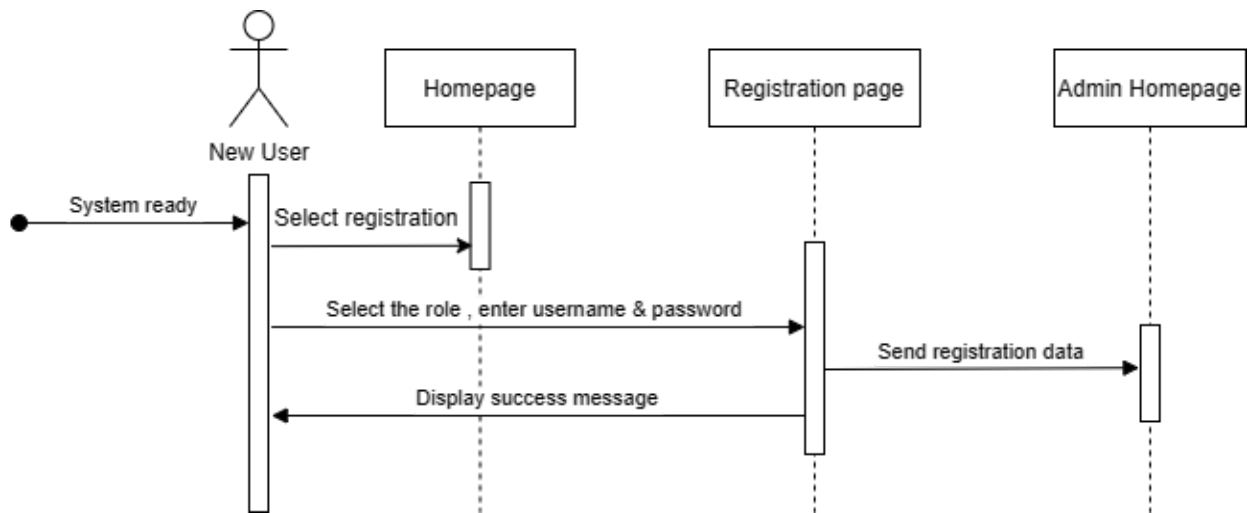
The diagram shows how the owner logs out from the system. The owner needs to select the log out function then the system will automatically bring out to the main page.



## 4 New user

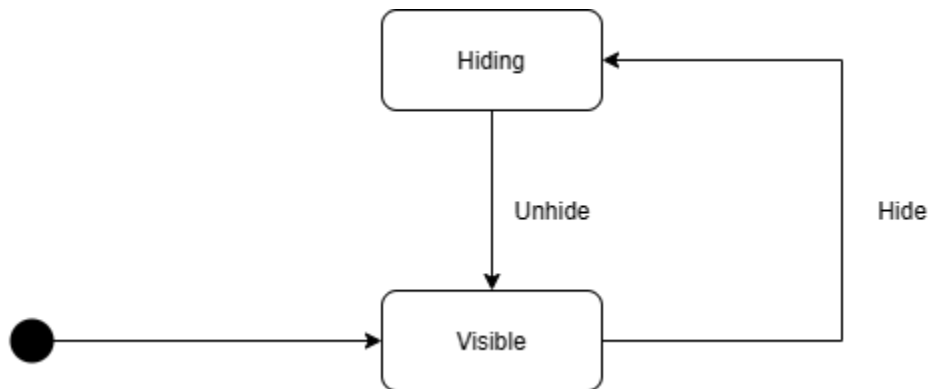
### 4.1 Register new account (New user)

The diagram shows how the new user registers a new account. The new user needs to select the registration function then a window will pop up to let the new user choose the role he wants to register and enter a username and password. After submission , the registration will pass to the admin homepage for him to approve.

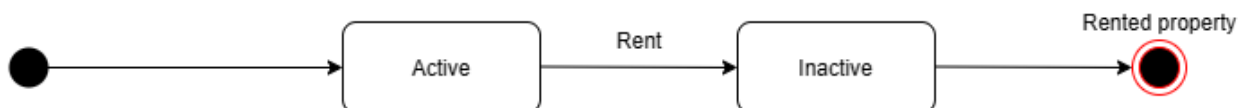


## State Diagram

This state diagram shows the status of property between hiding and visible.

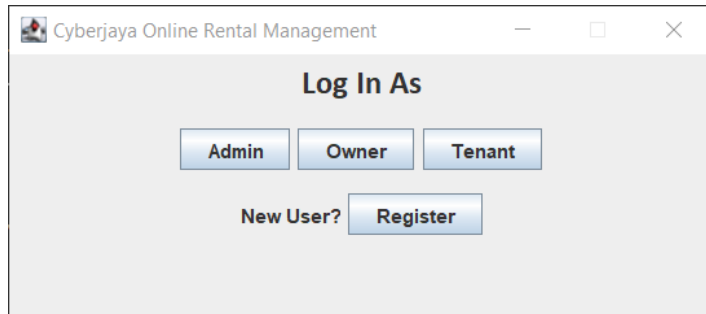


This state diagram shows the status of property when tenant rent the property.





## Input/Output Screens

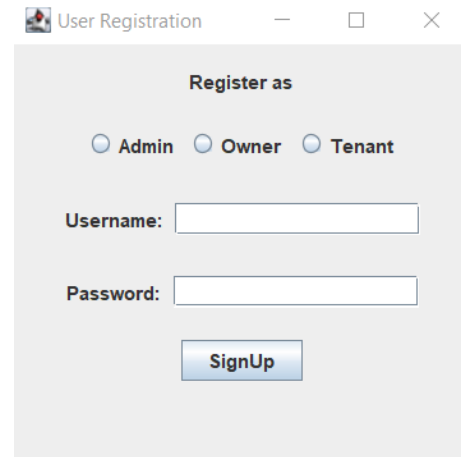


**Cyberjaya Online Rental Management**

**Log In As**

New User?

Main page



**User Registration**

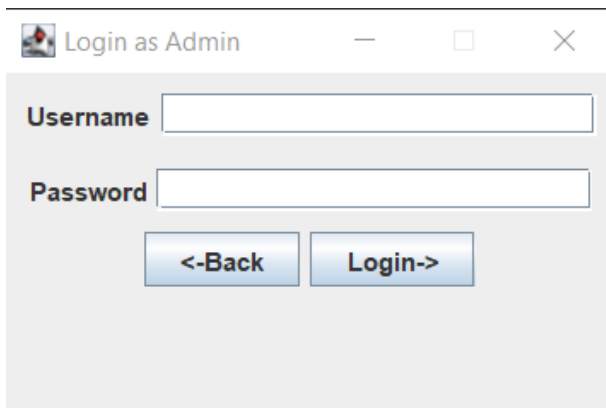
**Register as**

☐ Admin
 ☐ Owner
 ☐ Tenant

Username:

Password:

Registration page

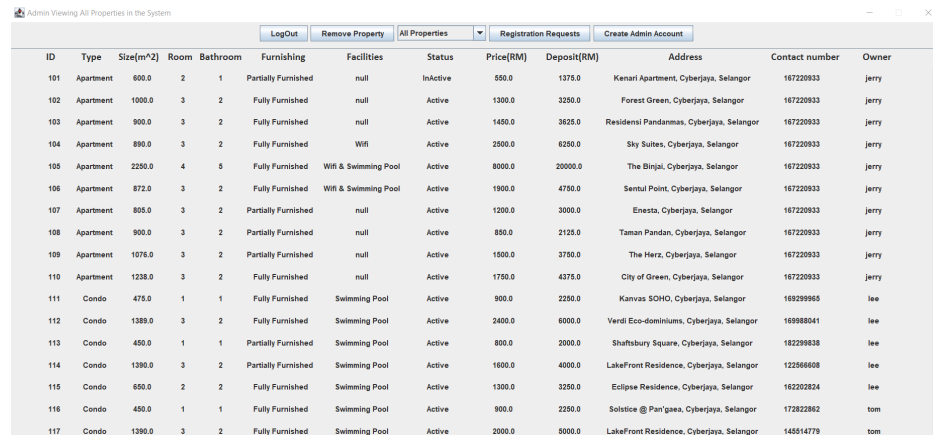


**Login as Admin**

Username

Password

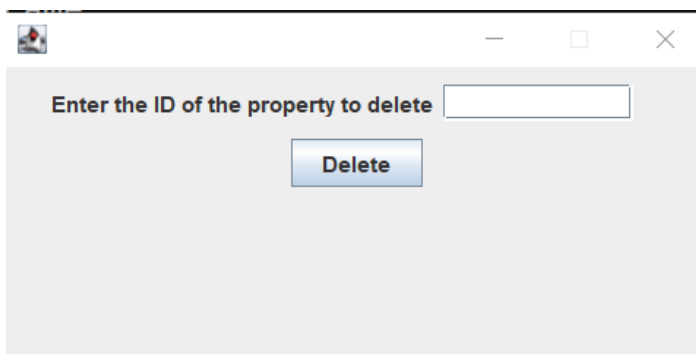
Admin login page



**Admin Viewing All Properties in the System**

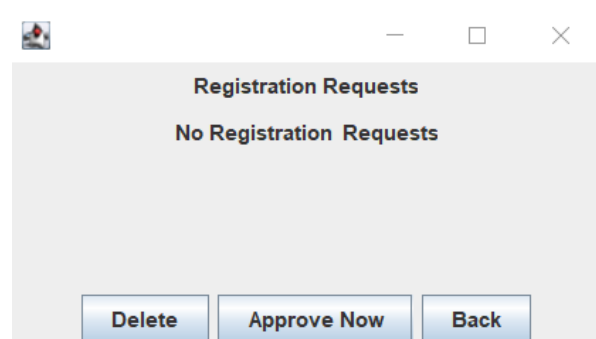
ID	Type	Size(m <sup>2</sup> )	Room	Bathroom	Furnishing	Facilities	Status	Price(RM)	Deposit(RM)	Address	Contact number	Owner
101	Apartment	600.0	2	1	Partially Furnished	null	InActive	550.0	1375.0	Kenari Apartment, Cyberjaya, Selangor	167220933	Jerry
102	Apartment	1000.0	3	2	Fully Furnished	null	Active	1300.0	3250.0	Forest Green, Cyberjaya, Selangor	167220933	Jerry
103	Apartment	900.0	3	2	Fully Furnished	null	Active	1450.0	3625.0	Residensi Pandaman, Cyberjaya, Selangor	167220933	Jerry
104	Apartment	890.0	3	2	Fully Furnished	Wifi	Active	2500.0	6250.0	Sky Suites, Cyberjaya, Selangor	167220933	Jerry
105	Apartment	2250.0	4	5	Fully Furnished	Wifi & Swimming Pool	Active	8000.0	20000.0	The Binjai, Cyberjaya, Selangor	167220933	Jerry
106	Apartment	872.0	3	2	Fully Furnished	Wifi & Swimming Pool	Active	1900.0	4750.0	Sentul Point, Cyberjaya, Selangor	167220933	Jerry
107	Apartment	805.0	3	2	Partially Furnished	null	Active	1200.0	3000.0	Enesta, Cyberjaya, Selangor	167220933	Jerry
108	Apartment	900.0	3	2	Partially Furnished	null	Active	850.0	2125.0	Taman Pandan, Cyberjaya, Selangor	167220933	Jerry
109	Apartment	1076.0	3	2	Partially Furnished	null	Active	1500.0	3750.0	The Harz, Cyberjaya, Selangor	167220933	Jerry
110	Apartment	1238.0	3	2	Fully Furnished	null	Active	1750.0	4375.0	City of Green, Cyberjaya, Selangor	167220933	Jerry
111	Condo	475.0	1	1	Fully Furnished	Swimming Pool	Active	900.0	2250.0	Kanvas SOHO, Cyberjaya, Selangor	165295965	lee
112	Condo	1389.0	3	2	Fully Furnished	Swimming Pool	Active	2400.0	6000.0	Verdi Eco-dominiums, Cyberjaya, Selangor	169888041	lee
113	Condo	450.0	1	1	Partially Furnished	Swimming Pool	Active	800.0	2000.0	Shaftsbury Square, Cyberjaya, Selangor	162299838	lee
114	Condo	1390.0	3	2	Partially Furnished	Swimming Pool	Active	1600.0	4000.0	LakeFront Residence, Cyberjaya, Selangor	122566608	lee
115	Condo	650.0	2	2	Fully Furnished	Swimming Pool	Active	1300.0	3250.0	Eclipse Residence, Cyberjaya, Selangor	162202824	lee
116	Condo	450.0	1	1	Fully Furnished	Swimming Pool	Active	900.0	2250.0	Solstice @ Pan'gasa, Cyberjaya, Selangor	172822862	tom
117	Condo	1390.0	3	2	Fully Furnished	Swimming Pool	Active	2000.0	5000.0	LakeFront Residence, Cyberjaya, Selangor	145514779	tom

Admin main page



Enter the ID of the property to delete

Delete property page



**Registration Requests**

**No Registration Requests**

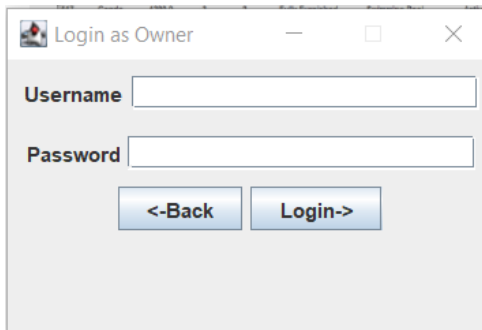
Registration request page

**TCP2201 Project**  
**Trimester 1, 2021/2022**  
**GROUP 15**

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**Team members:**

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Sumaya Sarker Snigdha, 1191301017@student.mmu.edu.my



**Login as Owner**

Username

Password

**Owner login page**

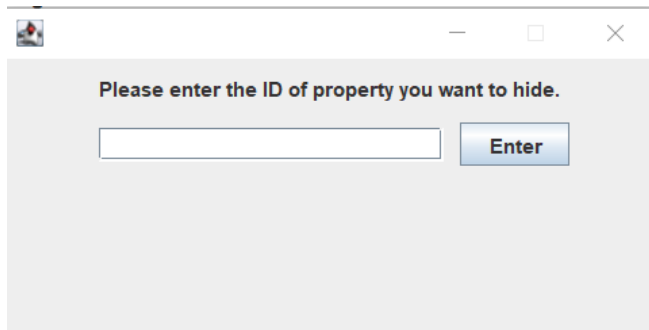


Owner Logged in

Logout Hide Unhide All Properties Modify Property Upload Property

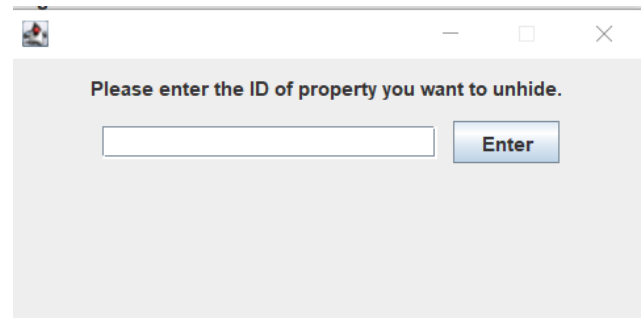
ID	Type	Size(m <sup>2</sup> )	Room	Bathroom	Furnishing	Facilities	Property status	Rent(RM)	Deposit(RM)	Address	Contact number	Owner
112	Condo	1389.0	3	2	Fully Furnished	Swimming Pool	Active	2400.0	6000.0	Vendi Eco-dominiums, Cyberjaya, Selangor	169988041	lee
113	Condo	450.0	1	1	Partially Furnished	Swimming Pool	Active	800.0	2000.0	Shaftsbury Square, Cyberjaya, Selangor	18229838	lee
114	Condo	1390.0	3	2	Partially Furnished	Swimming Pool	Active	1600.0	4000.0	LakeFront Residence, Cyberjaya, Selangor	12256608	lee
115	Condo	650.0	2	2	Fully Furnished	Swimming Pool	Active	1300.0	3250.0	Eclipse Residence, Cyberjaya, Selangor	16220284	lee
126	Commercial	543.0	1	1	Fully Furnished	null	Active	950.0	2375.0	Sky Park, Cyberjaya, Selangor	162540333	lee
127	Commercial	913.0	4	2	Fully Furnished	null	Active	1000.0	2500.0	The Arc, Cyberjaya, Selangor	162540333	lee
128	Commercial	450.0	1	1	Fully Furnished	null	Active	950.0	2375.0	Kenwingston Square, Cyberjaya, Selangor	162540333	lee
129	Commercial	10130.0	2	2	Fully Furnished	null	Active	1000.0	2500.0	Paragon @ Pan'gasa, Cyberjaya, Selangor	162540333	lee
130	Commercial	639.0	1	1	Partially Furnished	null	Active	1150.0	2875.0	Shaftsbury, Cyberjaya, Selangor	162540333	lee
130	Condo	100.0	4	5	null	Wifi	Active	1000.0	200.0	Jalan Hutong	123456	lee

**Owner main page**



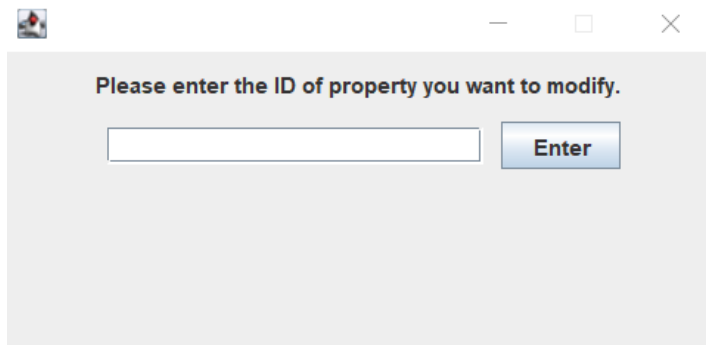
Please enter the ID of property you want to hide.

**Hide property page**



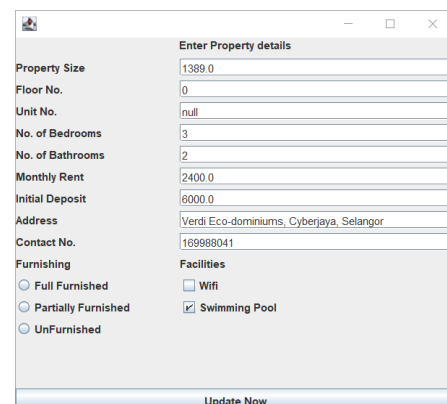
Please enter the ID of property you want to unhide.

**Unhide property page**



Please enter the ID of property you want to modify.

**Enter modify property ID page**



Enter Property details

Property Size: 1389.0

Floor No.: 0

Unit No.: null

No. of Bedrooms: 3

No. of Bathrooms: 2

Monthly Rent: 2400.0

Initial Deposit: 6000.0

Address: Vendi Eco-dominiums, Cyberjaya, Selangor

Contact No.: 169988041

Furnishing: ☐ Full Furnished ☐ Partially Furnished ☐ UnFurnished

Facilities: ☐ Wifi ☒ Swimming Pool

**Modify property page**

Upload by Category

Choose Property Category

Property Type:

Add property choose property type page

Enter Property details

Property Size

Floor No.

Unit No.

No. of Bedrooms

No. of Bathrooms

Monthly Rent

Initial Deposit

Address

Contact No.

Furnishing  
☐ Full Furnished  
☐ Partially Furnished  
☐ UnFurnished

Facilities  
☐ Wifi  
☐ Swimming Pool

Add property page

Login as Tenant

Username

Password

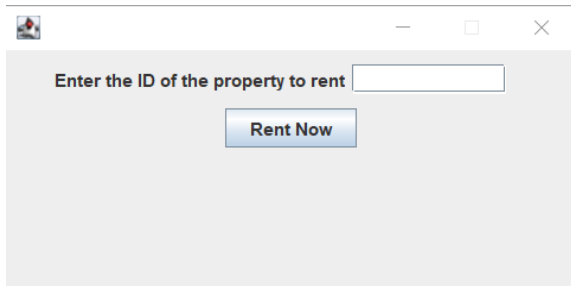
Tenant login page

Tenant Viewing Condominium Properties in the System

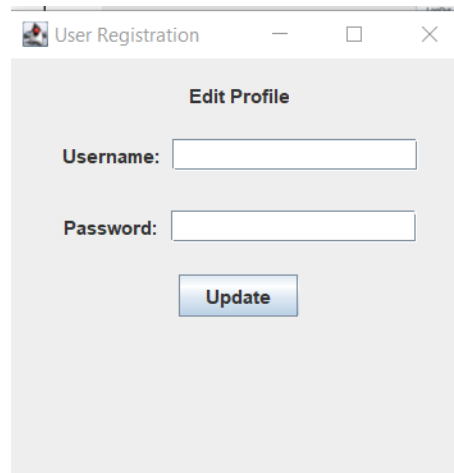
LogOut Service Residence Edit Profile Rent

ID	Type	Size(m²)	Room	Bathroom	Furnishing	Facilities	Status	Price(RM)	Deposit(RM)	Address	Contact number	Owner
121	Commercial	929.0	2	2	Fully Furnished	null	Active	1300.0	2500.0	Sky Park, Cyberjaya, Selangor	16430103	tom
122	Commercial	676.0	2	2	Fully Furnished	null	Active	1300.0	2280.0	Suites @ d'Pulse, Cyberjaya, Selangor	127803056	tom
123	Commercial	495.0	1	1	Fully Furnished	null	Active	1100.0	2750.0	Third Avenue, Cyberjaya, Selangor	169299965	tom
124	Commercial	775.0	2	2	Fully Furnished	null	Active	1200.0	3000.0	Third Avenue, Cyberjaya, Selangor	169299965	tom
125	Commercial	465.0	3	2	Fully Furnished	null	Active	800.0	2000.0	Garden Plaza, Cyberjaya, Selangor	162540333	tom
126	Commercial	543.0	1	1	Fully Furnished	null	Active	950.0	2375.0	Sky Park, Cyberjaya, Selangor	162540333	lee
127	Commercial	913.0	4	2	Fully Furnished	null	Active	1000.0	2500.0	The Arc, Cyberjaya, Selangor	162540333	lee
128	Commercial	400.0	1	1	Fully Furnished	null	Active	950.0	2375.0	Kensington Square, Cyberjaya, Selangor	162540333	lee
129	Commercial	10130.0	2	2	Fully Furnished	null	Active	1000.0	2500.0	Paragon @ Pan'gasa, Cyberjaya, Selangor	162540333	lee
130	Commercial	639.0	1	1	Partially Furnished	null	Active	1100.0	2875.0	Shafsbury, Cyberjaya, Selangor	162540333	lee

Tenant main page



Tenant rent property page



Tenant edit profile page

## Sample interface Screen:

```
C:\Windows\System32\cmd.exe - java LoginFrame
Microsoft Windows [Version 10.0.19043.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sunbeam\OneDrive\Desktop\Final Maybe>javac LoginFrame.java

C:\Users\Sunbeam\OneDrive\Desktop\Final Maybe>java LoginFrame
Admin ID - User Name: sunbeam Password: 1234
Owner ID - User Name: lee Password: 2345
Owner ID - User Name: tom Password: 2345
Owner ID - User Name: jerry Password: 2345
Tenant ID - User Name: sumaya Password: 4567
```

## Demo video:

[link:https://drive.google.com/file/d/1QFss3kpk99NdY-Cx\\_UVHWGsYWDzMLJ-j/view?usp=sharing](https://drive.google.com/file/d/1QFss3kpk99NdY-Cx_UVHWGsYWDzMLJ-j/view?usp=sharing)