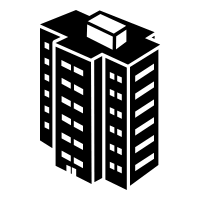
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**Project Report On**

**Finding An Apartment Mobile Application**

****

**Project Coordinator Project Guide**

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**TABLE OF CONTENT:**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **Topics** | **Page.no** |
|  |  |  |
| **1.** | **Introduction** | **04** |
|  |  |  |
| **2.** | **Aim** | **04** |
|  |  |  |
| **3.** | **Project Description** | **04** |
|  |  |  |
| **4.** | **Functional Requirements** | **05-06** |
|  |  |  |
| **5.** | **Non-Functional Requirements** | **07-08** |
|  |  |  |
| **6.** | **Sprint timetable** | **09** |
|  |  |  |
| **7.** | **Fully dressed use cases** | **10-20** |
|  |  |  |
| **8.** | **Use Case Diagram** | **21** |
|  |  |  |
| **9.** | **User screen flow** | **22-25** |
|  |  |  |
| **10.** | **Class Diagram** | **26** |
|  |  |  |
| **11.** | **Activity Diagram** | **27** |
|  |  |  |
| **12.** | **Sequence diagram** | **28-31** |
|  |  |  |
| **13.** | **Database Schema Diagram** | **32** |
|  |  |  |

**1.Introduction**

The Finding An Apartment mobile application is wishing to have a user interface that will allow their customers to view the properties, descriptions and cost of different properties available. The user had the ability to register and login to the Android App and book their desired property. The Android App will be responsive, allowing for the customer to view it on any device, from tablets to mobile phones. The landlord will also be able to login through the same Platform but had the ability to add/remove new properties, change cost of property etc., admin to verify properties and guest user to view properties for any future purpose.

**2.Aim**

To produce an Android-based system that allows tenant users to register and book/rent properties online, the landlord users to effectively manage their properties, the admin to verify properties and guest users to check upon properties. The main aim of this App is to be a powerful means of engaging an audience and delivering a better experience.

**3.Project Description**

The idea is to develop an app to ease the process of finding an apartment for people living anywhere in Québec. The app allows the user to efficiently visualize apartments for rent on a map. The user can then click any apartment to display additional information such as price, address, description, contact information and more. The user can also add a filter so that only apartments in a given price range are displayed. The user can also add apartments to a list to review them later. On the other hand, a renter must create an account if they wish to put an apartment for rent. When logged in, the user has access to an extra feature which allows them to add an apartment on the map with the information mentioned above. Logged in users can also update their profiles for contact information.

# 4.FUNCTIONAL REQUIREMENTS

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement ID** | **Requirement Statement** | **High/Medium/Low** | **Comments** |
| FR001 | Splash Screen | medium | All the end users of the application should be able to view the Splash Screen |
| FR002 | Tenant/Landlord Signup | High | Tenant/Landlord Signup support login Email |
| FR003 | Login | High | It is mandatory to register for Tenant/Landlord |
| FR004 | Reset Password/Forget Password | High | Tenants/Landlord/Guest/Admin Can reset the password |
| FR005 | Profile | Medium | Tenants/Landlord can able to update/edit modify user details like name email, phone, address details in the profile |
| FR006 | View Apartments | Medium | Tenants/Landlords/Admin can view the Apartments listed |
| FR007 | Add Apartments | High | Landlord can add new apartment profiles |
| FR008 | Edit Apartment | Low | Landlord can update/modify the details of the apartment |
| FR009 | Delete Apartment | Low | Landlord can delete the profile of the apartment |
| FR010 | Inbox | Low | landlords/Tenants can see the requests made by the Landlords/Tenants and can contact them |
| FR011 | Tenant/Admin/Landlords Dashboard | High | Tenants/Landlords/Admin should have a navigation bar to access different activities according to the features added for the respective Activities |

|  |  |  |  |
| --- | --- | --- | --- |
| FR012 | Apartment Profile | High | Tenants/Landlords can check the profile of the desired apartment |
| FR013 | Search without filter. | Medium | Tenant can search the flats using their desired locations in Canadian cities |
| FR014 | Search with filter | High | Tenants can search the apartments using the price,Apartment type,number of beds and price range filter |
| FR015 | Admin View Apartment | Medium | Admin can view the details of the Apartment posted by the Renters |
| FR016 | Admi Verify Apartment Details | High | Admin will verify the details of the apartment that it is real of fake and can deny/accept the posts added by the landlord |
| FR017 | Admi Delete Apartment | Medium | Admin can delete the post made by the Renters if the details of the apartments are fake/wrong |
| FR018 | Guest User | Low | Guest user can access application without login |
| FR019 | Manage wish list list | medium | Tenants can add their desired Apartments to add to the list for future purpose. |
| FR020 | Logout | High | Tenants/Landlords/Admin can be able to logout from the application |

**5.NON\_FUNCTIONAL REQUIREMENTS:**

|  |  |  |  |
| --- | --- | --- | --- |
| Requirement Id | Requirement Statement | High/Medium/Low | Comments |
| NRF 1 | Performance | High | when the user logs in how the application executes various tasks and how instantaneously the next page opens. |
| NRF 2 | Capacity | Low | Capacity is delivering enough functionality required by the end users. |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| NRF 3 | Portability | High | This application runs on Android Devices. |
| NRF 4 | Security | High | Only allows the authorized users to get access to the app either admin or user. |
| NRF 5 | Usability | High | This app design is simple to understand and easy to use even for the person who does not have good knowledge of phones. |
| NRF 6 | Efficiency | High | All the activities work smoothly one after another. |
| NRF 7 | Consistency | High | Like-items should always be displayed and act the same way across the entire application (and even between applications). |
| NRF 8 | Scalability | Medium | It is a non-functional property of a system that describes the ability to appropriately handle increasing (and decreasing) workloads. |

## a.Hardware Requirements

* Android Mobile
* Connector.

## b.Software Requirements

Android 4.2 or above

# 6.SPRINT TIME-TABLE:

|  |  |  |
| --- | --- | --- |
| ITERATION SL. NO: | DELIVERABLES | DEADLINE |
| 1 | • Functional Requirements •Non-Functional Requirements  • User Screen flow  • Use Case Diagram  • Use Case Description  • Class Diagram | 27-09-2020 |
| 2 | • Sequence Diagram  • Database Schema Diagram | 24-10-2020 |
| 3 | • Sequence Diagram  • Activity diagram  • Database Schema Diagram  • Class Diagram | 11-01-2020 |

**7.FULLY\_DRESSED\_USE-CASES:**

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC1 | |
| Use Case Name | Splash Screen | |
| Actor | Tenant/Landlord/Admin/Guest | |
| Description | This use case describes the splash screen of the application | |
| Triggering event | Tenant/landlord/guest/admin need to open/run the application | |
| Preconditions | Users must have a good internet connection. | |
| Flow of events | Actor | Flow of events |
| Tenant/Landlord/Guest/A**d**min | 1.1.System checks the internet connection.  1.2.System will display the splash screen for a few seconds. |
| Post conditions | The Actor sees the login page after the splash screen. | |
| Exception - Conditions | Database connection Issues | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC2 | |
| Use Case Name | Registration page | |
| Actor | Tenant/Landlord | |
| Description | This use case describes how the Tenant/User enters all the information for the first-time registration to the app. | |
| Triggering event | Tenant/Landlord selects the **register** link | |
| Preconditions | Tenant/Landlord must be a new user before registration. | |
| Flow of events | Actor | Flow of events |
| 1. Tenant/Landlord enters the first name 2. Tenant/Landlord enters the last name 3. Tenant/Landlord enters the phone number 4. Tenant/Landlord enters the email ID. 5. Tenant/Landlord enters the Username 6. Tenant/Landlord enters the password. 7. profile pic upload 8. Clicks **Submit** | 1.1. System check the all the information enters by the Tenant will meet the requirements  2.1. System will send all the information to the database  3.1. system saves all the information in the database |
| Post conditions | The Actor sees the menu page after successful login. | |
| Exception - Conditions | Database connection Issues | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC3 | |
| Use Case Name | Tenant/Guest/Landlord/Admin Login | |
| Actor | Tenant/landlord/Guest/Admin | |
| Description | This use case describes how the Tenant/Guest/Landlord/Admin logs in to the app with his mail id and password. | |
| Triggering event | Actor selects the **Login** link | |
| Preconditions | The Actor must have registered mail id before login to the app and for the guest user to login it is not necessary. | |
| Flow of events | Actor | System |

|  |  |  |
| --- | --- | --- |
|  | 1. Tenant/Landlord/Admin enters his registered mail id or username. 2. Tenant/Landlord/Admin enters his password. 3. Click Login | 1. All the information (mail id and password) sends to the database. 2. Database authenticates the information and acknowledges the system as a valid user. 3. System displays the menu page to the user. |
| Post conditions | The Actor sees the menu page after successful login. | |
| Exception - Conditions | Database connection Issues | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC4 | |
| Use Case Name | Tenant/Landlord Reset password | |
| Actor | Tenant/Landlord | |
| Description | This use case describes how the Tenant/Landlord reset his password using his mail id | |
| Triggering event | Tenant/Landlord selects the **Forgot Password** link | |
| Preconditions | The Tenant/Landlord must have registered mail id before login to the app. | |
| Flow of events | Actor | System |
| 1. Tenant/Landlord enters his registered mail id or username. 2. Click submit | 1. All the information (mail id and password) sends to the database. 2. Database authenticates the information and acknowledges the system as a valid user. 3. if the user exists them system sends him a mail regarding password resetting |
| Post conditions | The Actor sees the menu page after successful login. | |
| Exception - Conditions | Database connection Issues | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC5 | |
| Use Case Name | Tenant/Landlord/Admin navigation | |
| Actor | Tenant/Landlord/Admin | |
| Description | Tenant/Landlord/Admin should have a navigation bar | |
| Triggering event | Tenant/Landlords/Admin clicks on the navigation bar in the screen | |
| Preconditions | Tenants/Landlords must enter their profile details | |
| Flow of events | Actor | Flow of events |
| 1. Tenants/Landlords click the navigation bar.   . | 1.1. Display the list of the navigation on clicking the nav bar  2.1. Based on the selection from the navigation list, the next activity will be displayed. |
| Post conditions | Tenants/Landlords/Guests will logout from application after checking his/her profile. | |
| Exception - Conditions | Database connection issues | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC6 | |
| Use Case Name | Manage Profile page | |
| Actor | Tenants/Landlord | |
| Description | Tenant able to see all the details of his/her profile in application. | |
| Triggering event | Tenant clicks on the edit profile button in profile screen | |
| Preconditions | Tenant must enter their profile details | |
| Flow of events | Actor | Flow of events |
| 1. Tenant clicks profile button. 2. Tenant change username and click save button. 3. Tenants change passwords and click the save button.   3. Tenants change passwords and click the save button.  5. Tenants change the Phone number and click the save button. | 1.1. Display the profile of the user  2.1. Update the database with the changes if any and save the information in the database |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC4 | |
| Use Case Name | Manage Profile page | |
| Actor | Tenant | |
| Description | Tenant able to see all the details of his/her profile in application. | |
| Triggering event | Tenant clicks on the edit profile button in profile screen | |
| Preconditions | Tenant must enter their profile details | |
| Flow of events | Actor | Flow of events |
| 1. Tenant clicks profile button. 2. Tenant change username and click save button. 3. Tenants change passwords and click the save button.   3. Tenants change passwords and click the save button.  5. Tenants change the Phone number and click the save button. | 1.1. Display the profile of the user  2.1. Update the database with the changes if any and save the information in the database |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC5 | |
| Use Case Name | Add Apartment | |
| Actor | Landlord | |
| Description | Landlords are able to add the details of the apartment of his/her profile in application. | |
| Triggering event | Landlord clicks on the **Add Apartment** button in home screen | |
| Preconditions | Landlord must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Landlord adds the photo. 2. Landlord lists the price of the apartment 3. Landlord adds the address   3. Landlord will give the description of the flat  5. Landlord click on the save button and add the apartment in his/her profile | 1.1. System store the information of the apartment in the database |

|  |  |
| --- | --- |
| Post conditions | Tenants will logout from application after checking his/her profile. |
| Exception - Conditions | While updating the profile, the details should be correct. |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC6 | |
| Use Case Name | Edit Apartment Profile | |
| Actor | Landlord | |
| Description | Landlords can update the details of the apartment in his/her profile on application. | |
| Triggering event | Landlord clicks on the **Edit Apartment** button in home screen | |
| Preconditions | Landlord must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Landlord Edit the photo. 2. Landlord edits the price of the apartment 3. Landlord edits the address   3. Landlord edits the description of the flat  5. Landlord click on the save button and update the apartment in his/her profile | 1.1. System will update the stored information of the apartment in the database |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC7 | |
| Use Case Name | Delete Apartment Profile | |
| Actor | Landlord | |
| Description | Landlords are able to delete the details of the apartment of his/her profile in application. | |
| Triggering event | Landlord clicks on the **Delete Apartment** button in home screen | |
| Preconditions | Landlord must be logged in | |
| Flow of events | Actor | Flow of events |
| 1 Landlord click on the delete button and update the apartment in his/her profile | 1.1. System will delete the entire record of its existence from the stored information in |

|  |  |  |
| --- | --- | --- |
|  |  | the database |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC8 | |
| Use Case Name | Inbox | |
| Actor | Landlord | |
| Description | Landlord able to read the notification received form the Tenant | |
| Triggering event | Landlord clicks on the **Inbox** button in home screen | |
| Preconditions | Landlord must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Landlord check the requests made by the users and will responds to that accordingly | 1.1. System will send the requests made by the Tenant and their contact details to the particular Landlord using their id |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |
| --- | --- |
| Use Case ID | UC9 |
| Use Case Name | Tenant Dashboard |
| Actor | Tenant |
| Description | Tenant are able to see the posts made by the Renter |
| Triggering event | After logging in the user redirected to the Home page |
| Preconditions | Tenant must be logged in |

|  |  |  |
| --- | --- | --- |
| Flow of events | Actor | Flow of events |
| 1. Tenant check the posts made by the Landlord and contact him directly through the application | 1.1. system will send all the posts made by the Landlords for all Tenant so that they can check every apartment profile |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC10 | |
| Use Case Name | Apartment Profile | |
| Actor | Tenant | |
| Description | Tenants are able to see the profile of the particular apartment | |
| Triggering event | Tenant clicks on the **Details** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant checks the profile of the apartment which consists of details like price location and description | 1.1. System will fetch the information of the apartments by using their unique id |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC11 | |
| Use Case Name | Search Apartment | |
| Actor | Tenant | |
| Description | Tenants are able to search the profile of the particular apartment | |
| Triggering event | Tenant clicks on the **Search** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant can search the apartment that interests him using search intent | 1.1. System will fetch the information of the apartments using the search key at ease |
| Post conditions | Tenants will logout from application after checking his/her profile. | |

|  |  |
| --- | --- |
| Exception - Conditions | While updating the profile, the details should be correct. |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC12 | |
| Use Case Name | Search Apartment using Location | |
| Actor | Tenant | |
| Description | Tenants are able to search the profile of the particular apartment using location | |
| Triggering event | Tenant clicks on the **Search** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant can search the apartment in a particular location based on his interest | 1.1. System will fetch the information of the apartments using the location filter that he is looking for |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC13 | |
| Use Case Name | Search Apartment using Price | |
| Actor | Tenant | |
| Description | Tenants are able to search the profile of the particular apartment using price | |
| Triggering event | Tenant clicks on the **Search** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant can search the apartment that he can afford using price intent in search filter | 1.1. System will fetch the information of the apartments in a particular price range that Tenant is looking for |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |
| --- | --- |
| Use Case ID | UC14 |

|  |  |  |
| --- | --- | --- |
| Use Case Name | Search Apartment using Apartment type | |
| Actor | Tenant | |
| Description | Tenants are able to search the profile of the particular apartment using apartment type | |
| Triggering event | Tenant clicks on the **Search** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant can search the apartment based on the number of the rooms that he requires | 1.1. System will fetch the information of the apartments that fulfils the search criteria |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| USE CASE ID: | UC15 | |
| Use Case Name | Search Apartment using Number of beds | |
| Actor | Tenant | |
| Description | Tenants are able to search the profile of the particular apartment using the number of beds available in the apartment. | |
| Triggering event | Tenant clicks on the **Search** button on the home Screen | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant can search the apartment based on the number of the rooms that he requires | 1.1. System will fetch the information of the apartments that fulfils the search criteria |
| Post conditions | Tenants will logout from application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC16 | |
| Use Case Name | Tenant payment | |
| Actor | Tenant | |
| Description | Tenant will make payment the for the apartment | |
| Triggering event | After logging in tenant redirects to payment gateway | |
| Preconditions | Tenant must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Tenant will perform payment using gateway | 1.1. System will fetch the information of the payment profile from the database |
| Post conditions | User will logout from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC17 | |
| Use Case Name | Admin Login | |
| Actor | Admin, | |
| Description | This use case describes how the Admin logs in to the app with his mail id and password. | |
| Triggering event | Actor selects the **Admin** link | |
| Preconditions | The admin must have registered mail id before login to the app. | |
| Flow of events | Actor | System |
|  | 1. Admin enters his registered mail id or username. 2. Admin enters his password. | 1 All the information (mail id and password) sends to the database. |
|  | 3. Click Login | 2 Database authenticates the information and acknowledges the system as a valid user. |
|  |  | 3 System displays the menu page to the user. |
| Post conditions | The Actor sees the menu page after successful login. | |
| Exception - Conditions | Database connection Issues | |
|  |  | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC18 | |
| Use Case Name | Admin view apartment | |
| Actor | admin | |
| Description | Admin can able to view the details of the apartment | |
| Triggering event | After logging in admin redirects to his homepage | |
| Preconditions | Admin must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Admin can see the details of the apartment uploaded by the Renters | 1.1. System will fetch the information of the apartments profile from the database |
| Post conditions | User will log out from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC19 | |
| Use Case Name | Admin Verify Apartment | |
| Actor | Admin | |
| Description | Admin will verify the details of the apartment | |
| Triggering event | After logging in admin redirects to his homepage | |
| Preconditions | Admin must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Admin will verify the details of the apartment whether it is fake or real | 1.1. System will fetch the information of the apartments profile from the database |
| Post conditions | User will logout from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

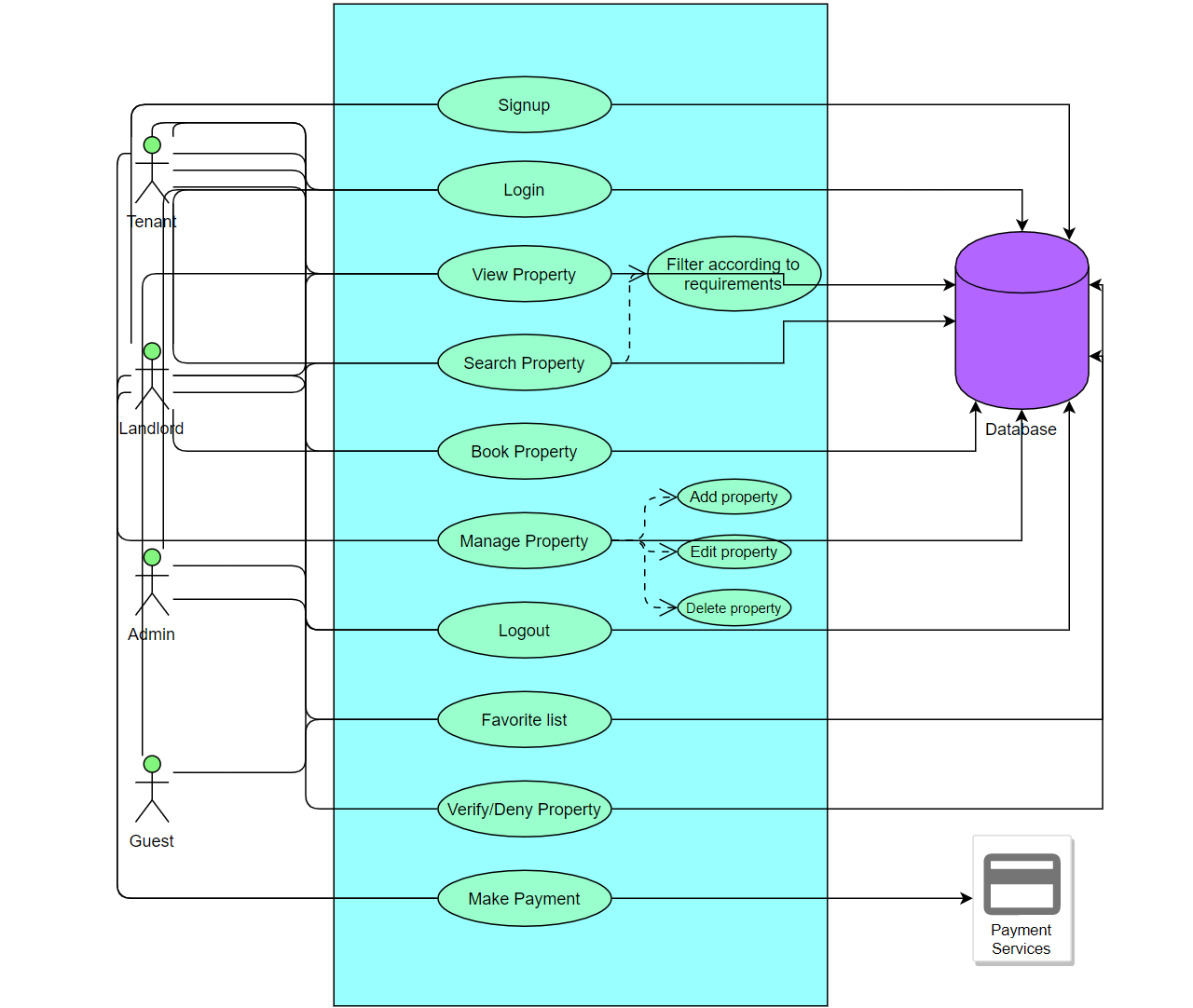
|  |  |  |
| --- | --- | --- |
| Use Case ID | UC20 | |
| Use Case Name | Admin Delete Apartment | |
| Actor | admin | |
| Description | admin will Delete the profile of the apartment | |
| Triggering event | After logging in admin redirects to his homepage | |
| Preconditions | Admin must be logged in | |
| Flow of events | Actor | Flow of events |

|  |  |  |
| --- | --- | --- |
|  | 1. Admin will verify the details of the apartment whether it is fake or real. And delete the profile of the apartment if it is fake | 1.1. System will fetch the information of the apartments profile from the database and give access to the admin to delete if the details given by the renter are fake |
| Post conditions | User will logout from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

|  |  |  |
| --- | --- | --- |
| Use Case ID | UC21 | |
| Use Case Name | Guestlogin | |
| Actor | Guest | |
| Description | guests can login without registration. | |
| Triggering event | After logging in Guest redirects to his homepage | |
| Preconditions | Guest must be logged in | |
| Flow of events | Actor | Flow of events |
| 1.guest will able to login without registration | 1.1. System will fetch the information of the apartments profile from the database |
| Post conditions | User will log out from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

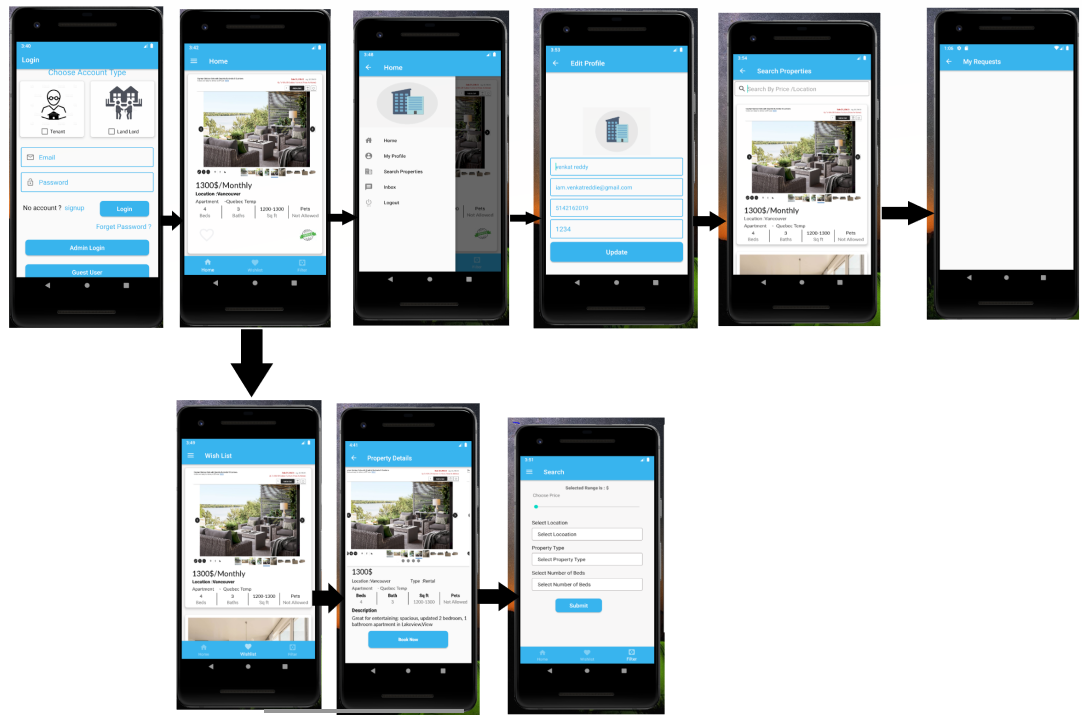
|  |  |  |
| --- | --- | --- |
| Use Case ID | UC22 | |
| Use Case Name | Guest View Property | |
| Actor | Guest | |
| Description | Guest will view the details of the apartment | |
| Triggering event | After logging in guest redirects to his homepage | |
| Preconditions | Guest must be logged in | |
| Flow of events | Actor | Flow of events |
| 1. Guest will view home page | 1.1. System will fetch the information of the apartments profile from the database with description |
| Post conditions | User will log out from the application after checking his/her profile. | |
| Exception - Conditions | While updating the profile, the details should be correct. | |

**8.USE CASE DIAGRAM:**

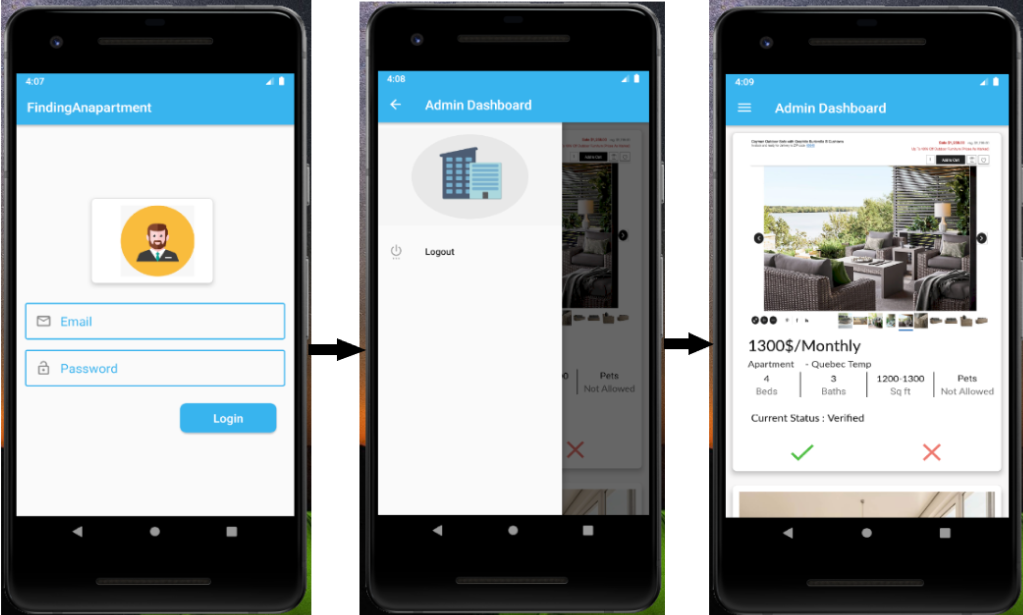


**9.ACTIVITIES SCREEN FLOW:**

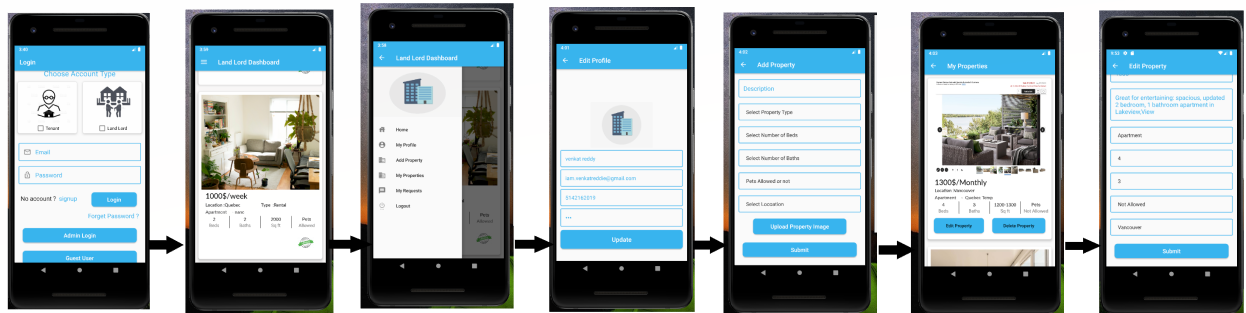
**a.TENANT SCREEN FLOW**

****

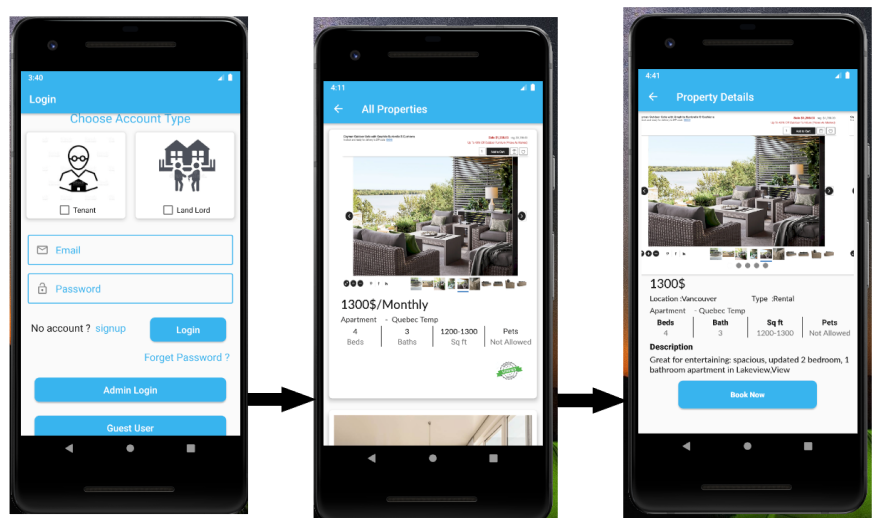
**b.ADMIN SCREEN FLOW**



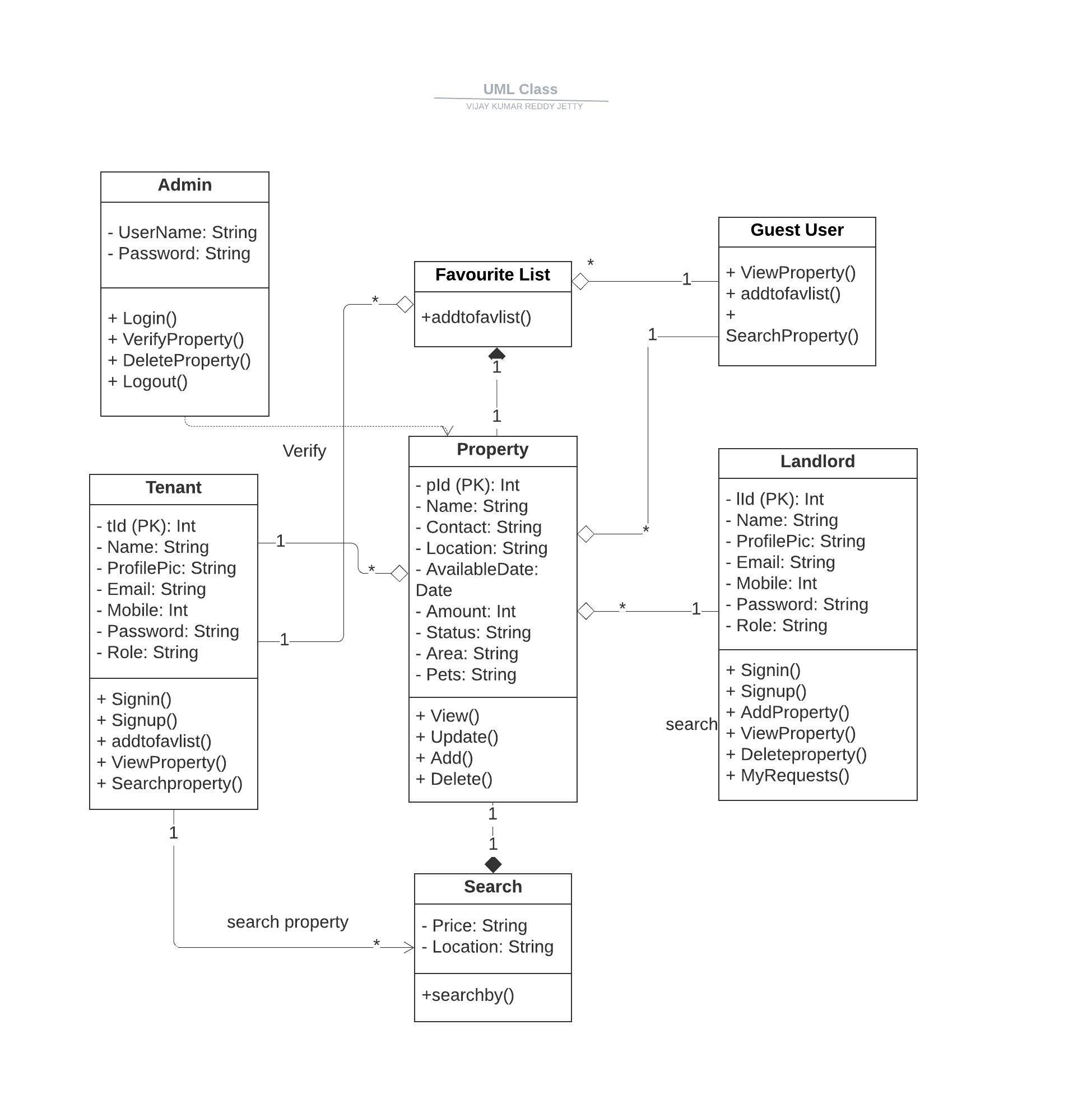
**c.LANDLORD**



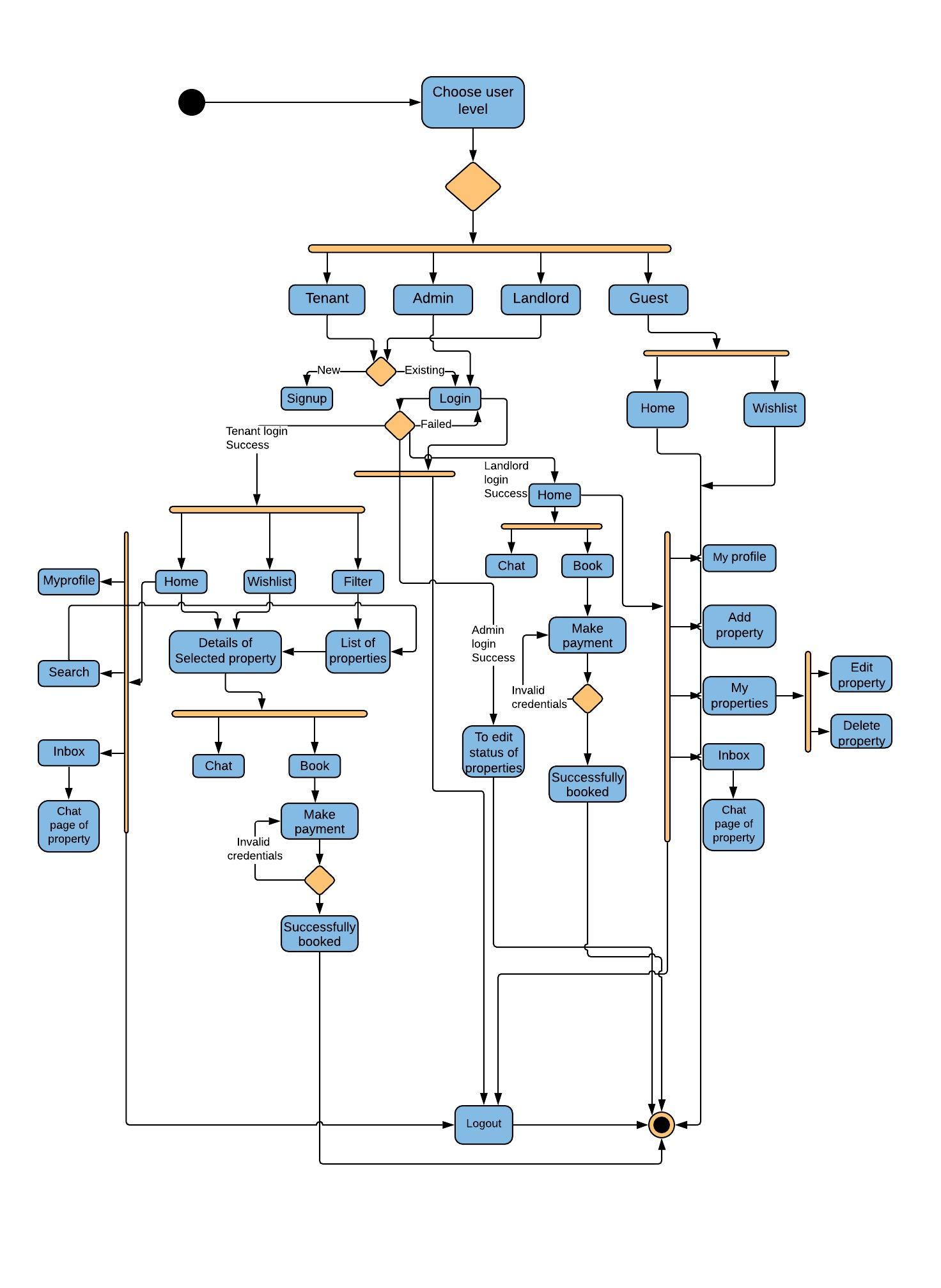
d.GUEST SCREEN FLOW:



**10.UML CLASS DIAGRAM:**

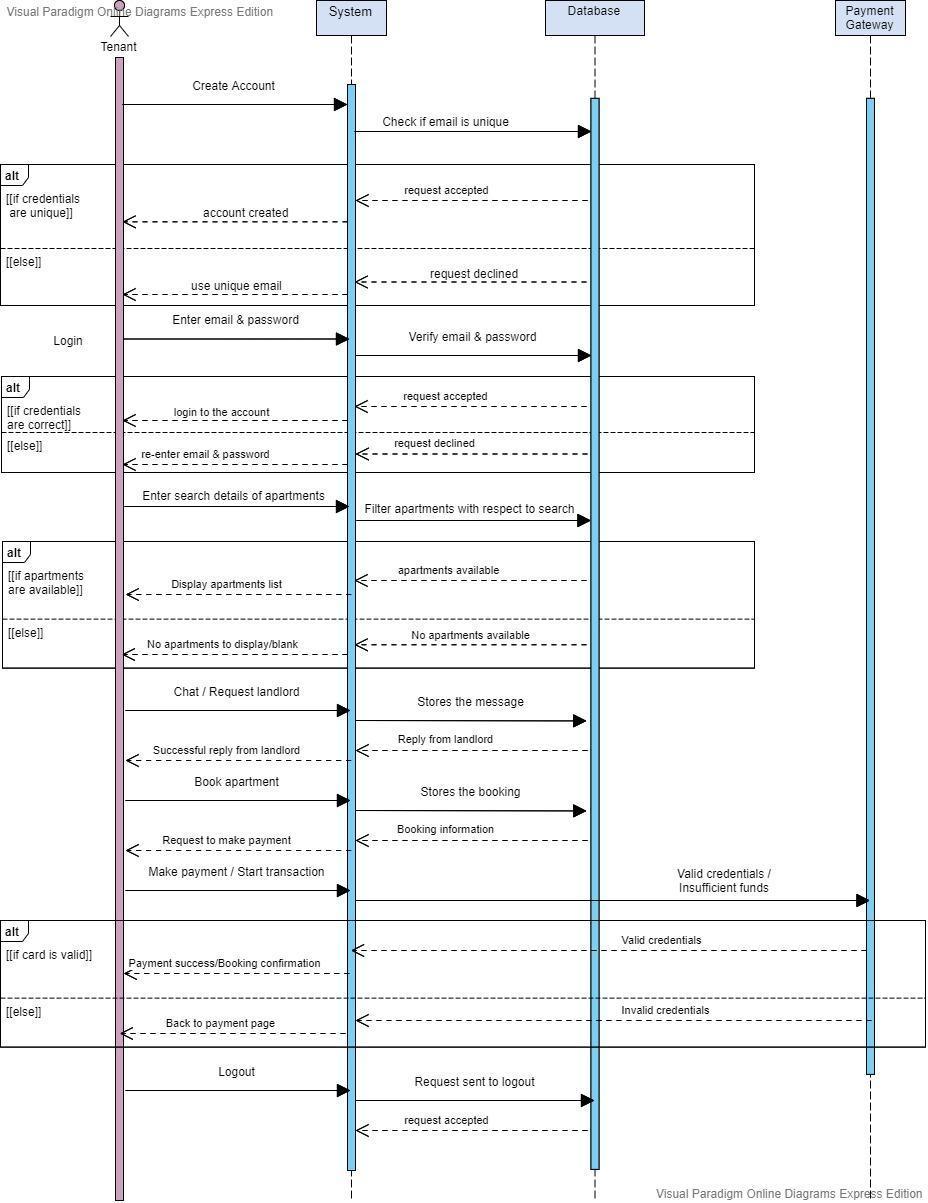


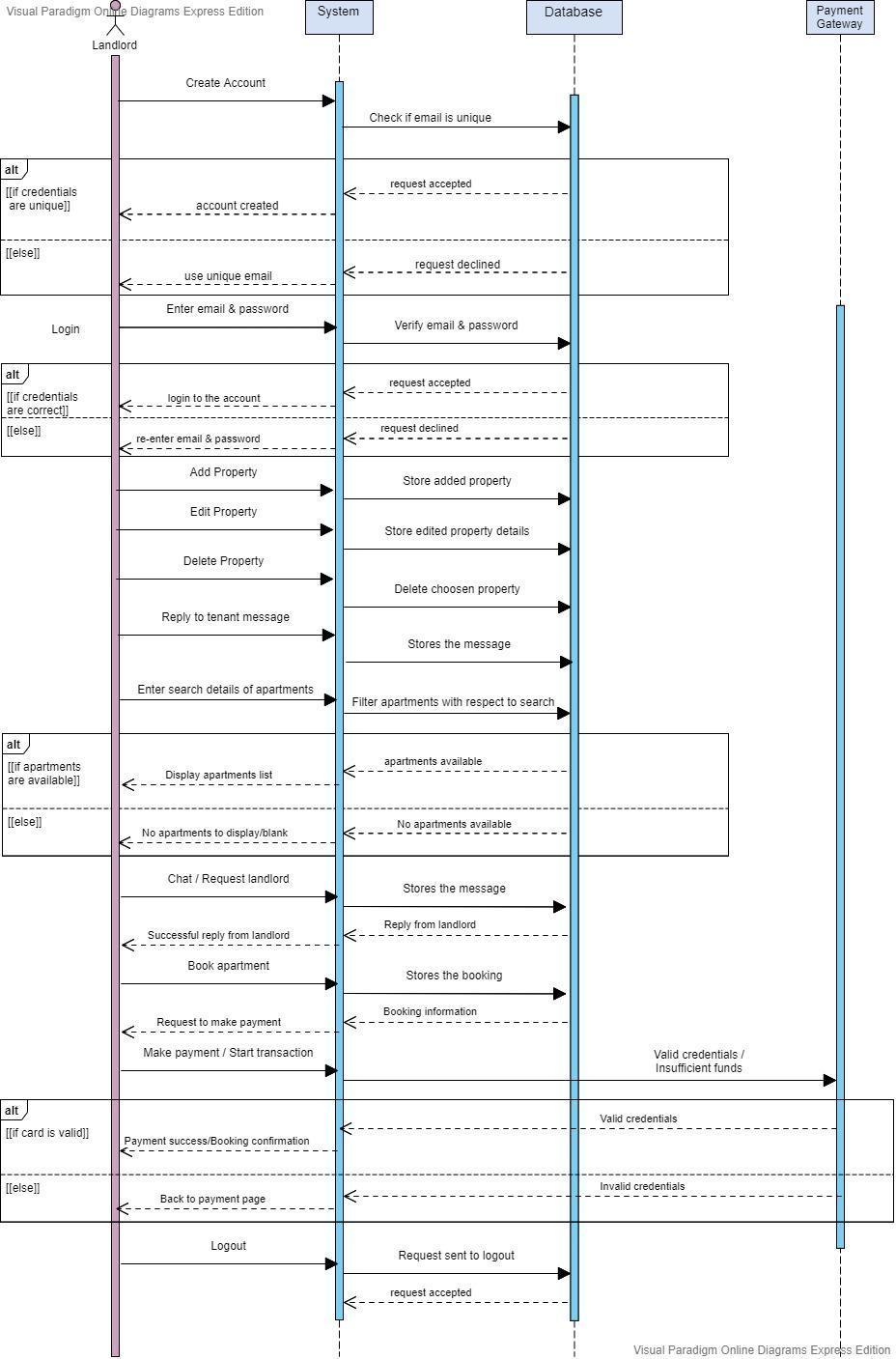
11.ACTIVITY DIAGRAM:



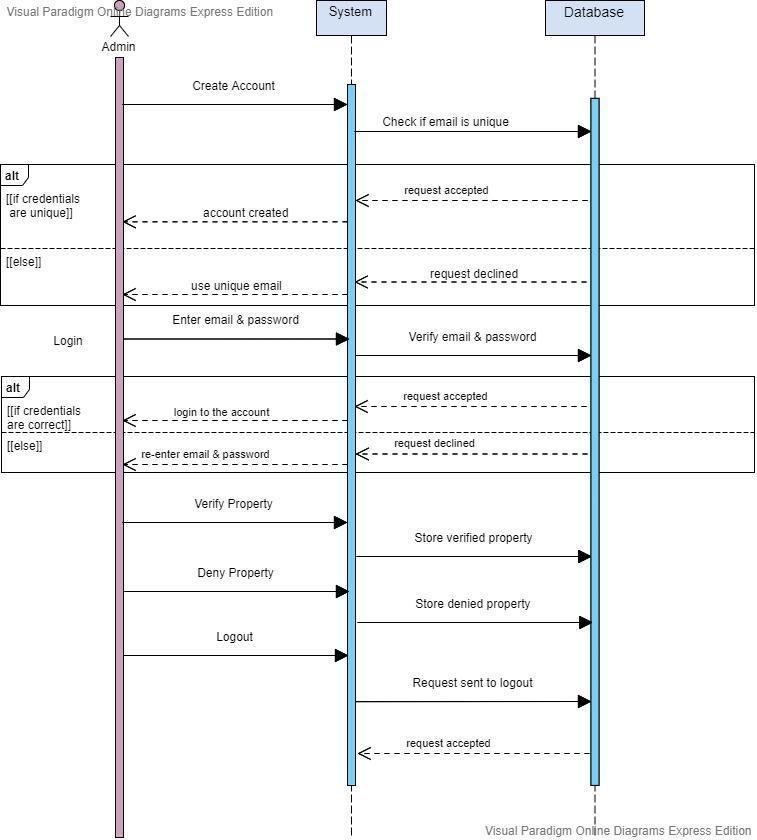
**12.SEQUENCE-DIAGRAM:-**

**a.TENANT-SEQUENCE**

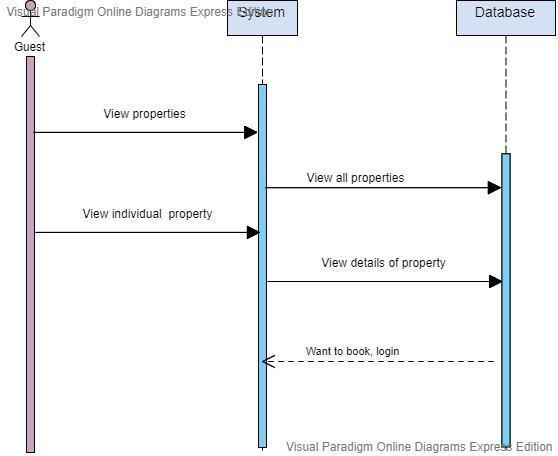


**b.LANDLORD** SEQUENCE:

**c.ADMIN SEQUENCE:**



**d.GUEST SEQUENCE:**



**13.DATABASE SCHEMA DIAGRAM:**

