# Project Report On Finding An Apartment Mobile Application

**Project Co-Ordinator** 

**Project Guide** 

Pargol Poshtareh

Richard Grand'Maison Sakkaravarthi ramanathan

# **Team Members**

S.No	Name	Student ID
01	Venkat Reddy Mallesh	1993122
02	Dinesh Avula	1992713
03	Saiteja Yatam	1993100
04	Srikanth Reddy Marakkagari	1993120
05	Vijay Kumar Reddy Jetty	1992711
06	Navya Manda	1894204
07	Kalyan Teja Danda	1993115

## **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.

# **Specific Requirements**

## **Functional Requirements**

Requirement ID	Requirement Statement	High/Medium/Low	Comments
FR001	Tenant/Landlord Signup	High	Tenant/Landlord Signup support login Email
FR002	Login	High	It is mandatory to register
FR003	Reset Password/Forget Password	High	Tenant Can reset the password
FR004	Profile	Medium	Tenant can able to update/edit modify user details like name email, phone, address details in the profile
FR005	Add Apartments	High	Landlord can add new apartment profiles
FR006	Edit Apartment	Low	Landlord can update/modify the details of the apartment
FR007	Delete Apartment	Low	Landlord can delete the profile of the apartment
FR008	Inbox	Low	landlord can see the requests made by the users and can contact them
FR009	User Dashboard	Should	Tenant can check the posts made by the Renters for the flat

FR010	Apartment Profile	High	Tenant can check the profile of the desired apartment
FR011	Search Criteria	High	Tenant can search flats based on the user preferences
FR012	Search Location	Medium	Tenant can search the flats using their desired locations
FR013	Search using Price	Medium	Tenant can search the flats using the price range filter
FR014	Search using Apartment type	Medium	Tenant can search the flats based on the type of apartment they are looking for
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
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	Favourite list	medium	Tenant can add favourite flats to add list for future purpose.

# **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.

# **Other Requirements**

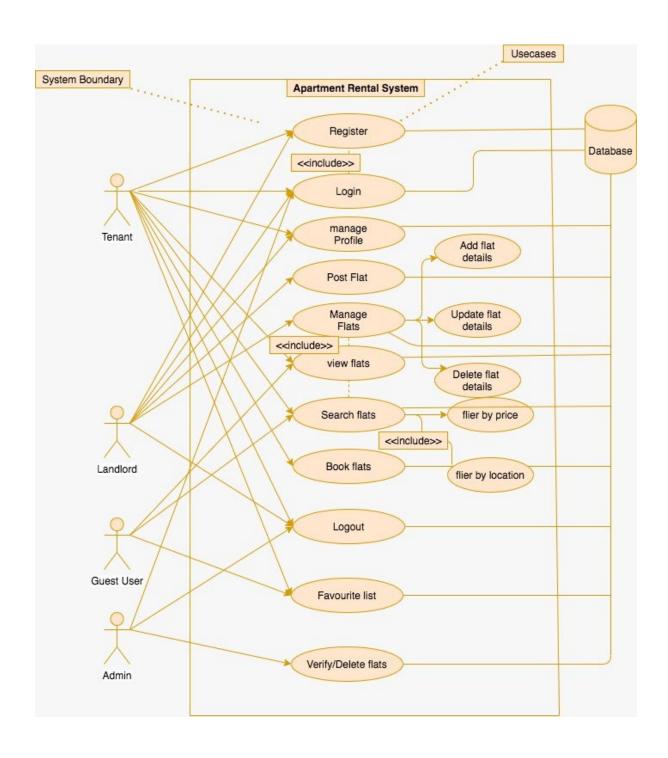
# **Hardware Requirements**

- Android Mobile
- Connector.

## **Software Requirements**

Android Oreo

## **Use case Diagram**



# **Fully Dressed Use case scenarios**

Use Case ID	UC1		
Use Case Name	Registration page		
Actor	Tenant		
Description	This use case describes how the User enters all the information for the first-time registration to the app.		
Triggering event	User selects the <b>register</b> link		
Preconditions	User must be a new user before regi	stration.	
Flow of events	Actor	Flow of events	
	1. Tenant enters the first name	1.1. System check the all the information enters by the	
	2. Tenant enters the last name	Tenant will meet the requirements	
	3. Tenant enters the phone number	2.1. System will send all the	
	4. Tenant enters the email ID.	information to the database 3.1. system saves all the information in the database	
	5. Tenant enters the Username	information in the database	
	6. Tenant enters the password.		
	7.profile pic upload		
	8. Clicks <b>Submit</b>		
Post conditions	The Actor see the menu page after s	uccessful login.	
Exception - Conditions	Database connection Issues		

Use Case ID	UC2		
Use Case Name	Tenant Login	Tenant Login	
Actor	Tenant		
Description	This use case describes how the user id and password.	· logs in to the app with his mail	
Triggering event	Actor selects the <b>Login</b> link		
Preconditions	The Actor must have registered mail id before login to the app.		
Flow of events	Actor System		

	<ol> <li>Tenant enters his registered mail id or username.</li> <li>Tenant enters his password.</li> <li>Click Login</li> </ol>	<ol> <li>All the information (mail id and password) sends to the database.</li> <li>Data base authenticates the information and acknowledges to the system as a valid user.</li> <li>System displays the menu page to the user.</li> </ol>
Post conditions	The Actor see the menu page after s	uccessful login.
Exception - Conditions	Database connection Issues	

Use Case ID	UC3		
Use Case Name	Tenant Reset password		
Actor	Tenant,		
Description	This use case describes how the Tenant reset his password using his mail id		
Triggering event	Tenant selects the Forgot Password	link	
Preconditions	The Tenant must have registered mail id before login to the app.		
Flow of events	Actor	System	
	1. Tenant enters his registered mail id or username.	1 All the information (mail id and password) sends to the database.	
	2. Click submit	2 Data base authenticates the information and acknowledges to the system as a valid user.	
		3 if the user exists them system sends him a mail regarding password resetting	
Post conditions	The Actor see the menu page after successful login.		
Exception - Conditions	Database connection Issues		

Use Case ID	UC4		
Use Case Name	Manage Profile page		
Actor	Tenant		
Description	Tenant able to see all the details of h	is/her profile in application.	
Triggering event	Tenant clicks on the edit profile butt	on in profile screen	
Preconditions	Tenant must enter their profile detail	ls	
Flow of events	Actor	Flow of events	
	<ol> <li>Tenant clicks profile button.</li> <li>Tenant change username and click save button.</li> <li>Tenant change password and click the save button.</li> <li>Tenant change password and click the save button.</li> </ol>	the changes if any and save	
	5. Tenant change the Phone number and click the save button.		
Post conditions	Tenant will logout from application a	fter checking his/her profile.	
Exception - Conditions	While updating profile, the details sh	nould be correct.	

Use Case ID	UC5		
Use Case Name	Add Apartment		
Actor	Landlord		
Description	Landlord able to add the details of the in application.	ne apartment of his/her profile	
Triggering event	Landlord clicks on the Add Apartm	ent button in home screen	
Preconditions	Landlord must be logged in		
Flow of events	Actor	Flow of events	
	<ol> <li>Landlord adds the photo.</li> <li>Landlord lists the price of the apartment</li> <li>Landlord adds the address</li> <li>Landlord will give the description of the flat</li> <li>Landlord click on the save button and add the apartment in his/her profile</li> </ol>	1.1. System store the information of the apartment in the database	

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

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

Use Case ID	UC7	
Use Case Name	Delete Apartment Profile	
Actor	Landlord	
Description	Landlord able to delete the details of profile in application.	f the apartment of his/her
Triggering event	Landlord clicks on the <b>Delete Apartment</b> 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	Tenant will logout from application	after checking his/her profile.
Exception - Conditions	While updating profile, the details sl	hould be correct.

Use Case ID	UC8	
	-	
Use Case Name	Inbox	
Actor	Landlord	
Description	Landlord able to read the notification	n received form the Tenant
Triggering event	Landlord clicks on the <b>Inbox</b> 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	Tenant will logout from application after checking his/her profile.	
Exception - Conditions	While updating 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
	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	Tenant will logout from application	after checking his/her profile.
Exception - Conditions	While updating profile, the details sl	nould be correct.

Use Case ID	UC10		
Use Case Name	Apartment Profile		
Actor	Tenant		
Description	Tenants are able to see the profile of	Tenants are able to see the profile of the particular apartment	
Triggering event	Tenant clicks on the <b>Details</b> button on the home Screen		
Preconditions	Tenant must be logged in		
Flow of events	Actor	Flow of events	
	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	Tenant will logout from application after checking his/her profile.		
Exception - Conditions	While updating profile, the details should be correct.		

Use Case ID	UC11		
Use Case Name	Search Apartment	Search Apartment	
Actor	Tenant	Tenant	
Description	Tenants are able to search the profile	e of the particular apartment	
Triggering event	Tenant clicks on the <b>Search</b> button on the home Screen		
Preconditions	Tenant must be logged in		
Flow of events	Actor Flow of events		
	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	Tenant will logout from application after checking his/her profile.		

Exception - Conditions	While updating 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 <b>Search</b> button on the home Screen	
Preconditions	Tenant must be logged in	
Flow of events	Actor	Flow of events
	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	Tenant will logout from application after checking his/her profile.	
Exception - Conditions	While updating 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 <b>Search</b> button on the home Screen	
Preconditions	Tenant must be logged in	
Flow of events	Actor	Flow of events
	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	Tenant will logout from application after checking his/her profile.	
Exception - Conditions	While updating 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 <b>Search</b> button on the home Screen	
Preconditions	Tenant must be logged in	
Flow of events	Actor	Flow of events
	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	Tenant will logout from application after checking his/her profile.	
Exception - Conditions	While updating profile, the details should be correct.	

Use Case ID	UC15	
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 <b>Admin</b> link	
Preconditions	The admin must have registered mail id before login to the app.	
Flow of events	Actor	System
	<ol> <li>Admin enters his registered mail id or username.</li> <li>Admin enters his password.</li> <li>Click Login</li> </ol>	<ol> <li>All the information (mail id and password) sends to the database.</li> <li>Data base authenticates the information and acknowledges to the system as a valid user.</li> <li>System displays the menu page to the user.</li> </ol>
Post conditions	The Actor see the menu page after successful login.	
Exception - Conditions	Database connection Issues	

Use Case ID	UC16	
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
	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 logout from application after checking his/her profile.	
Exception - Conditions	While updating profile, the details should be correct.	

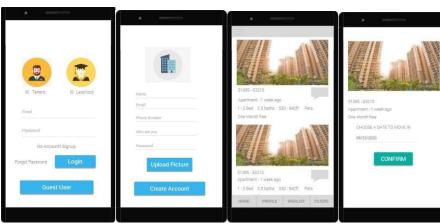
Use Case ID	UC17	
Use Case Name	Admin Verify Apartment	
Actor	Admin	
Description	Admin will verify the details of the apartment	
Triggering event	After logging in admin redirects to his homepage	
Preconditions	Admin must be logged in	
Flow of events	Actor	Flow of events
	Admin will verify the details 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 application after checking his/her profile.	
Exception - Conditions	While updating profile, the details should be correct.	

Use Case ID	UC18	
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

	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 application after checking his/her profile.	
Exception - Conditions	While updating profile, the details should be correct.	

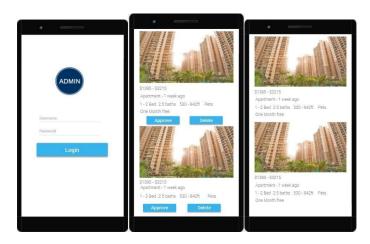
## TENANT:





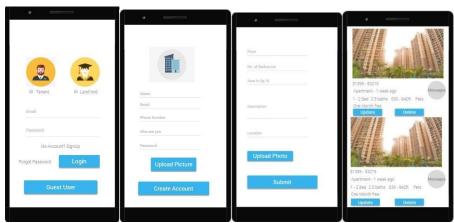


## ADMIN



## LANDLORD:

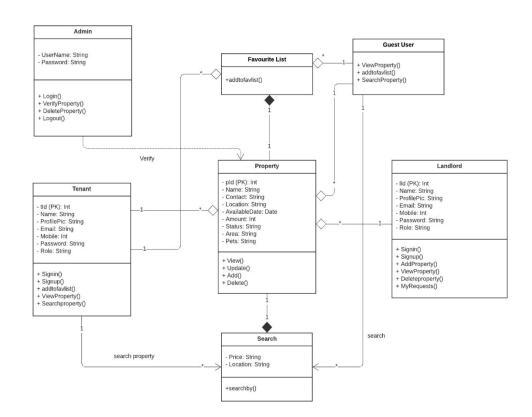






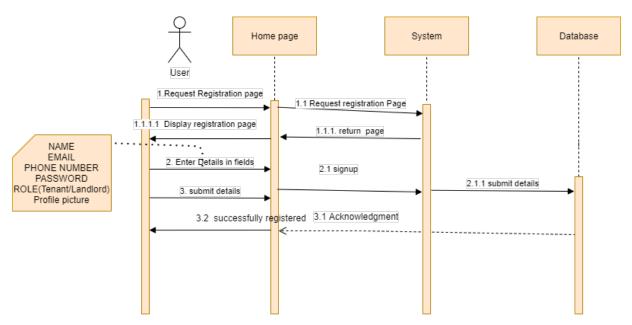
#### CLASS DIAGRAM:-



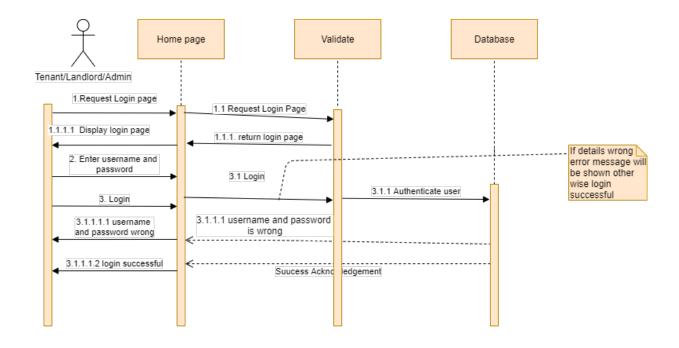


## SEQUENCE DIAGRAM:-

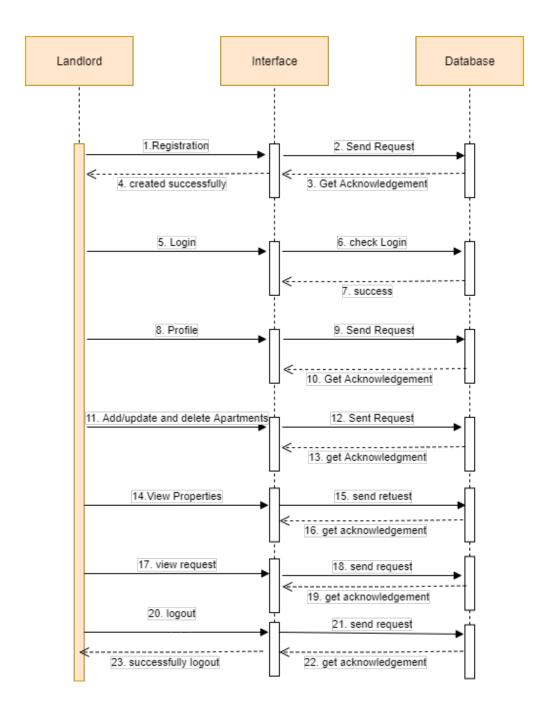
#### TENANT REGISTRATION



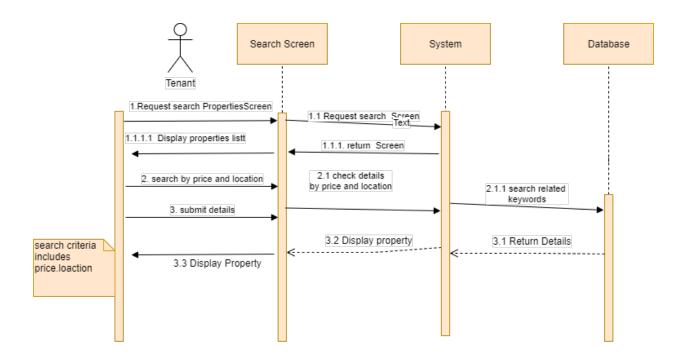
#### TENANT/LANDLORD/ADMIN LOGIN



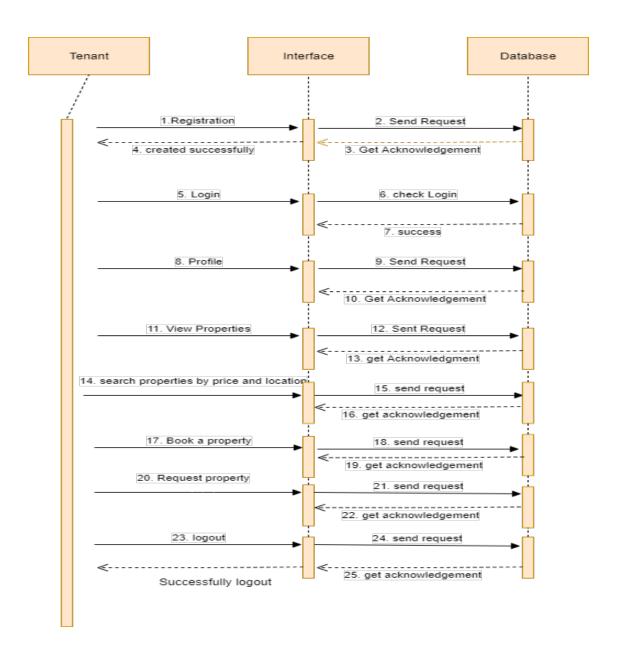
#### LANDLORD:



### TENANT SEARCH:



#### TENANT COMPLETE FUNCTIONALITY:



#### DATABASE SCHEMA DIAGRAM:

