

eHouseRent: Use Case Description

Use Case Number: 1		
Name Sing-Up		
Brief description This use case allows to create a profile		
Actors Customer/Owner		
Preconditions		
No precondition		
Flows of Events:		
1. Basic Flows		
1.0 Sign up		
Step	User Actions	System Actions
1	The user calls the sign-up command	The system displays a form with the fields for first name, last name, email, password.
2	The user fills out the form and requests the system to save the details	The system verify that there is no other profile in the database with the same email address, saves the user and returns the success message on success or a fail message in case of failure. In case another profile exists with the same email address, the system returns a message indicating a duplicate entry exists
Postconditions		
The user is persisted in the system		
Business Rule		
No duplicate user profiles. Two profile are identical if they have the same email address		

Use Case Number: 2		
Name	House CRUD	
Brief description	This use case allows the owner to create profiles for the houses	
Actors	Owner	
Preconditions		
The Owner must sign in to the system		
Flows of Events:		
1. Basic Flows		
1.1.0 Post a House		
Step	User Actions	System Actions
1	The owner select the Add new house command	The system displays the house profile form with the fields for house catagory,Address, price, house number, owner Name and ownerId
2	The owner fills out the form and requests the system to save the details	The system verifies that there's no other profile in the database with the same house number and returns the success message on success or a fail message in case of failure. In case another house exists with the same data, the system returns the message indicating a duplicate entry exists.
Post Conditions		
The new house data is persisted in the system		
Business Rules		
No duplicate house with the same house number.		
1.1.1 Read/view list of owners house		
Step	Owner Actions	System Actions

1	The owner selects to view a list of houses	The system returns a list of all houses that he/she owns.
1.1.2 Update house information		
Step	Owner Actions	System Action
1	The owner selects to view a list of houses	The system returns a list of all houses.
2	The owner selects the profile of the house that he wants to update	The system displays an editable house profile form pre-populated with the house profile details
3	The owner updates the fields he want to update and requests system to save the new details	The system updates the record and returns the Success message or a fail message on exception.
Post conditions		
The house profile will be updated		
Business Rule		
The house Number, address fields should be unwritable.		
1.1.3 Delete/remove house		
Step	Owner Actions	System Actions
1	The owner selects to view a list of houses	The system returns a list of all house profile.
2	The owner selects house to delete/remove from a list.	The system displays a confirmation dialogue window
3	The owner selects OK on the confirmation dialog window to confirm deleting the house	The system confirms the house is no more registered in the list system returns message a success message on success or a failure message. The system should return a message indicating the house could not be deleted because it is already reserved by someone.
Post conditions		
The house will be deleted		
Business Rule		
Only a house that is not reserved can be removed.		

Use Case Number: 3		
Name	House search	
Brief description	This use case allows the customer to search for available house based on specific location	
Actors	customer	
Preconditions		
No Preconditions , any one can search for the available house		
Flows of Events:		
1. Basic Flows		
1.1.0 Search for available house		
Step	User Actions	System Actions
1	The customer selects a location	The system displays the list of houses at that location
2	The customer selects a house they want from the list	The system displays the selected house’s detail information (type, price, availability date of the house....).

Use Case Number: 4	
Name	booking house
Brief description	This use case provides a functionality for booking house
Actors	customer
Preconditions	
The customer must be logged in to the system	
Flows of Events:	

1. Basic Flows

1.0 book a house

Step	User Actions	System Actions
1	The customer select a house from the list of available house and then click reserve	The system displays a form with check in and check out date
2	The customer fills out the form and requests the system to save the details	The system saves the booking and returns a success message or a fail message in case of an exception.

Post conditions

The booking is persisted in the system

Business Rule

The same house cannot be booked more than once at the time.

