## Use Case Description Template

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| **Name:** | | **ID:** |
| --- | --- | --- |
| **Stakeholders and goals:** | | |
| **Description:** | | |
| **Actors:** | | |
| **Trigger:** | | |
| **Pre-condition** | | |
| **Main flow:** | | |
| **Sub-flow:** | | |
| **Alternative/Exceptional flows:** | | |

## Use Case Description

| **Name:** SA - login | **ID:** #1 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To login to the system | |
| **Description:** As a System admin, I want to login, so that I can access the administrative dashboard and perform necessary tasks efficiently. | |
| **Actors:** System Admin | |
| **Trigger:** When the System Admin enters login details and clicks on the login button. | |
| **Pre-condition:** System Admin has a valid user account | |
| **Main flow:**   1. System Admin launches the app 2. System prompts System Admin for their username and password 3. System Admin input their details 4. System Admin clicks “Login” button 5. System Admin is redirected to the home page 6. End. | |
| **Sub- flow:** None. | |
| **Alternative/Exceptional flow:**  4a. Invalid login: System display message “Invalid login. Please try again” | |

## Use Case Description

| **Name:** REA - login | **ID:** #16 |
| --- | --- |
| **Stakeholders and goals:** Real Estate Agent - To login to the system | |
| **Description:** As a Real Estate Agent, I want to Login to the platform using my credentials, so that I can access my account and perform tasks related to property management and interaction with buyers. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent enters login details and clicks on the login button. | |
| **Pre-condition:** Real Estate Agent has a valid user account | |
| **Main flow:**   1. Real Estate Agent launches the app 2. System prompts Real Estate Agent for their username and password 3. Real Estate Agent input their details 4. Real Estate Agent clicks “Login” button 5. Real Estate Agent is redirected to the home page 6. End. | |
| **Sub- flow:** None. | |
| **Alternative/Exceptional flow:**  4a. Invalid login: System display message “Invalid login. Please try again” | |

## Use Case Description

| **Name:** Seller - login | **ID:** #12 |
| --- | --- |
| **Stakeholders and goals:** Seller - To login to the system | |
| **Description:** As a Seller, I want to Login, so that I can access my account and manage my property listings efficiently. | |
| **Actors:** Seller | |
| **Trigger:** When Seller enters login details and clicks on the login button. | |
| **Pre-condition:** Seller has a valid user account | |
| **Main flow:**   1. Seller launches the app 2. System prompts Seller for their username and password 3. Seller input their details 4. Seller clicks “Login” button 5. Seller is redirected to the home page 6. End. | |
| **Sub- flow:** None. | |
| **Alternative/Exceptional flow:**  4a. Invalid login: System display message “Invalid login. Please try again” | |

## Use Case Description

| **Name:** Buyer - login | **ID:** #35 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To login to the system | |
| **Description:** As a Buyer, I want to Login to the platform using my credentials, ensuring secure access to my account and its features. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer enters login details and clicks on the login button. | |
| **Pre-condition:** Buyer has a valid user account | |
| **Main flow:**   1. Buyer launches the app 2. System prompts Buyer for their username and password 3. Buyer input his/her details 4. Buyer clicks “Login” button 5. Buyer is redirected to the home page 6. End. | |
| **Sub- flow:** None. | |
| **Alternative/Exceptional flow:**  4a. Invalid login: System display message “Invalid login. Please try again” | |

## Use Case Description

| **Name:** System Admin - logout | **ID:** #2 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To logout from the system | |
| **Description:** As a System admin, I want to logout, so that I can exit the administrative dashboard and protect sensitive information. | |
| **Actors:** System Admin | |
| **Trigger:** When the System Admin clicks on the logout button. | |
| **Pre-condition:**  System Admin is logged in | |
| **Main flow:**   1. System Admin clicks on the “Logout” button. 2. System logs the System Admin out. 3. System Admin is directed to the login page. 4. End. | |
| **Sub-flow:** None. | |
| **Alternative/Exceptional flow:** | |

## Use Case Description

| **Name:** REA - logout | **ID:** #17 |
| --- | --- |
| **Stakeholders and goals:** Real Estate Agent - To logout from the system | |
| **Description:** As a Real Estate Agent, I want to Logout of my account securely, ensuring that my session is terminated and my account remains protected from unauthorized access. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks on the logout button. | |
| **Pre-condition:**  Real Estate Agent is logged in | |
| **Main flow:**   1. Real Estate Agent clicks on the “Logout” button. 2. System logs the Real Estate Agent out. 3. Real Estate Agent is directed to the login page. 4. End. | |
| **Sub-flow:** None. | |
| **Alternative/Exceptional flow:** | |

## Use Case Description

| **Name:** Seller - logout | **ID:** #13 |
| --- | --- |
| **Stakeholders and goals:** Seller - To logout from the system | |
| **Description:** As a Seller, I want to Logout, so that I can securely exit my account and protect my personal information | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks on the logout button. | |
| **Pre-condition:**  Seller is logged in | |
| **Main flow:**   1. Seller clicks on the “Logout” button. 2. System logs the Seller out. 3. Seller is directed to the login page. 4. End. | |
| **Sub-flow:** None. | |
| **Alternative/Exceptional flow:** | |

## Use Case Description

| **Name:** Buyer - logout | **ID:** #36 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To logout from the system | |
| **Description:** As a Buyer, I want to be able to Logout of my account securely, terminating my session and protecting my account from unauthorized access. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on the logout button. | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer clicks on the “Logout” button. 2. System logs the Buyer out. 3. Buyer is directed to the login page. 4. End. | |
| **Sub-flow:** None. | |
| **Alternative/Exceptional flow:** | |

## Use Case Description

| **Name:** SA - view user accounts | **ID:** #3 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To view user accounts | |
| **Description:** As a System admin, I want to View user accounts (sys admin/seller/buyer/agent), so that I can access and review the details and activities associated with different user accounts in the system. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks on “Manage” button beside selected user account | |
| **Pre-condition:**  System Admin is logged in | |
| **Main flow:** 1. System displays the list of the user account  2. System Admin clicks on “Manage” button beside selected user account 3. System shows the existing user data 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

## Use Case Description

| **Name:** SA - view own account information | **ID:** #616 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To view own account | |
| **Description:** As a System admin, I want to View my own account so that I can access and review my own details. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks on their username in GUI. | |
| **Pre-condition:**  System Admin is logged in | |
| **Main flow:** 1. System Admin clicks on their username. 2. System redirects user to their account page  3. System shows the user details 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

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## Use Case Description

| **Name:** REA - view own account | **ID:** #20 |
| --- | --- |
| **Stakeholders and goals:** Real Estate Agent - To view own account | |
| **Description:** As a Real Estate Agent, I want to be able to View the details of my own user account, including my profile information and contact details, to ensure they are accurate and up-to-date. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks on their username in GUI. | |
| **Pre-condition:**  Real Estate Agent is logged in | |
| **Main flow:**  1. Real Estate Agent clicks on their username. 2. System redirects user to their account page  3. System shows the user details 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - view own account details | **ID:** #38 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To view own account | |
| **Description:** As a buyer, I want to be able to View my own account information, including profile details and settings, to ensure they are accurate and up-to-date. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on their username in GUI. | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**  1. Buyer clicks on their username 2. System redirects user to their account page  3. System shows the user details 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Seller - view own account details | **ID:** #19 |
| --- | --- |
| **Stakeholders and goals:** Seller - To view own account | |
| **Description:** As a Seller, I want to View my user account details, so that I can review and ensure the accuracy of the information associated with my account. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks their own username | |
| **Pre-condition:**  Seller is logged in | |
| **Main flow:**  1. Seller clicks on their username 2. System redirect user to their account page  3. System shows the user details 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** SA - search user account | **ID:** #4 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To search for a user account | |
| **Description:** As a System admin, I want to Search user accounts (sys admin/seller/buyer/agent), so that I can efficiently locate specific user accounts based on their username. | |
| **Actors:** System Admin | |
| **Trigger:** The System Admin clicks on search button | |
| **Pre-condition:**  System Admin is logged in | |
| **Main flow:** 1. System Admin input the username 2. System Admin clicks on “Search” button  3. System displays the user accounts  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  3.a. System Admin enters partial username: System display users with matching partial username  3.b. System Admin enters blank: All users displayed | |

**Use Case Description**

| **Name:** SA - suspend user accounts | **ID:** #6 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To suspend a user account | |
| **Description:** As a System admin, I want to Suspend user accounts (sys admin/seller/buyer/agent) so that I can remove suspicious and unused accounts and ensure the reliability and trustworthiness of the system. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks suspend button when viewing a user account | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on view user page  Selected user exists | |
| **Main flow:** 1. System Admin clicks “Suspend” button  2. System shows confirmation window displays “Are you sure you want to suspend?”  3. System Admin clicks “Yes”  4. System suspends the account and says “User suspended successfully”  5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a. Error: System displays message "Suspension failed; User already suspended." | |

**Use Case Description**

| **Name:** SA - edit user accounts | **ID:** #5 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To edit any user account | |
| **Description:** As a System admin, I want to Edit user accounts (sysadmin/seller/buyer/agent) so that I can edit account details. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks edit button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on their main page System Admin clicks on "Manage" button  There are existing user account/s. | |
| **Normal flow:**  1. System Admin clicks on “Edit” button  2. System redirects user to account update page  3. System display submission form of user current details  4. System Admin input new details 5. System Admin clicks “Update” button  6. System shows message “User details updated successfully" and redirects System Admin back to the main page.  7. End | |
| **Sub-flows:** 4.a: System validates form | |
| **Alternative/Exceptional flows:** 6.a: Blank input: System displays popup message in popup "Field cannot be empty" 6.b. Error: System displays message "Failed to update user details" | |

**Use Case Description**

| **Name:** SA - edit own account details | **ID:** #617 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To edit the details of my account | |
| **Description:** As a System admin, I want to be able to Edit my user account information such as my name and contact details, so that my information remains current and accurate. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks edit button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on view own account page | |
| **Main flow:** 1. System Admin clicks on “Edit” button 2. System redirects user to account update page 3. System displays user details form 4. System Admin input new details 5. System Admin clicks “Update” button  6. System shows the message “User details updated successfully” and redirects back to the main page.  7. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  6.a. Blank input: System displays message in popup “Field cannot be empty”6.b. Error: System displays message “Failed to update user details” | |

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**Use Case Description**

| **Name:**  REA - edit own account details | **ID:** #21 |
| --- | --- |
| **Stakeholders and goals:** Real Estate Agent - To edit the details of my account | |
| **Description:** As a Real Estate Agent, I want to be able to Edit my user account information such as my name and contact details, so that my information remains current and accurate. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks edit button | |
| **Pre-condition:**  Real Estate Agent is logged in  Real Estate Agent is currently on view own account page | |
| **Main flow:** 1. Real Estate Agent clicks on “Edit” button 2. System redirects user to account update page 3. System displays user details form 4. Real Estate Agent input new details 5. Real Estate Agent clicks “Update” button  6. System shows the message “User details updated successfully" and redirects back to the main page.  7. End | |
| **Sub-flows:** 4.a: System validates form | |
| **Alternative/Exceptional flows:** 6.a. Blank input: System displays message in popup "Field cannot be empty"6.b. Error: System displays message “Failed to update user details” | |

**Use Case Description**

| **Name:**  Buyer - edit own account details | **ID:** #39 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To edit the details of my user account | |
| **Description:** As a buyer, I want to be able to Edit my account information, such as contact details or profile picture, ensuring my information remains current. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks edit button | |
| **Pre-condition:**  Buyer is logged in  Buyer is currently on view own account page | |
| **Main flow:** 1. Buyer clicks on “Edit” button 2. System redirects user to account update page 3. System displays user details form 4. Buyer input new details 5. Buyer clicks “Update” button  6. System shows the message “User details updated successfully" and redirects back to the main page.  7. End | |
| **Sub-flows:** 4.a: System validates form | |
| **Alternative/Exceptional flows:** 6.a. Blank input: System displays message in popup "Field cannot be empty"  6.b. Error: System displays message “Failed to update user details” | |

**Use Case Description**

| **Name:**  Seller - edit own account details | **ID:** #24 |
| --- | --- |
| **Stakeholders and goals:** Seller - To edit the details of my user account | |
| **Description:** As a Seller, I want to Edit my user account, so that I can modify my contact information or other details as needed. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks edit button | |
| **Pre-condition:**  Seller is logged in  Seller is currently on view own account page | |
| **Main flow:** 1. Seller clicks on “Edit” button 2. System redirects user to account update page 3. System displays user details form 4. Seller input new details 5. Seller clicks “Update” button  6. System shows the message “User details updated successfully" and redirects back to the main page.  7. End | |
| **Sub-flows:** 4.a: System validates form | |
| **Alternative/Exceptional flows:** 6.a. Blank input: System displays message in popup "Field cannot be empty" 6.b. Error: System displays message “Failed to update user details. Please try again” | |

**Use Case Description**

| **Name:** SA - create user accounts | **ID:** #7 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To create a user account for other users | |
| **Description:** As a System admin, I want to Create user accounts (sysadmin/seller/buyer/agent) so that I can add new users who would like to use the product to the system. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin enters create button | |
| **Pre-condition:**  System Admin is logged in | |
| **Main flow:**  1. System Admin clicks on “Create”  2. System redirects user to account creation page  3. System Admin insert details for a new user account  4. System Admin clicks “Create” button  5. System shows a popup message “Account created successful”  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  5.a. Blank input: System displays message “Invalid input” 5.b. Invalid input error: System displays message “Invalid credentials. Please try again." | |

**Use Case Description**

| **Name:** REA - create account | **ID:** #18 |
| --- | --- |
| **Stakeholders and goals:** REA - To create my user account | |
| **Description:** As a Real Estate Agent, I want to be able to Create new accounts for myself, providing necessary details and information to grant myself access to the system and features. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks create an account | |
| **Pre-condition:**  None | |
| **Main flow:**  1. Real Estate Agent clicks on “Create an account”  2. System redirects user to account creation page  3. Real Estate Agent insert user data information/credentials  4. Real Estate Agent clicks “Create” button  5. System displays message "Account created, you may now login." and redirects user to login page  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** 5.a. Blank input: System displays message "Please fill in all fields" 5.b. Error: System displays message "Invalid credentials. Please try again." | |

**Use Case Description**

| **Name:** Buyer - Create account | **ID:** #37 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To create my user account | |
| **Description:** As a buyer, I want to Create an account on the platform, providing necessary details such as name, email, and password, to access its features and services. | |
| **Actors:** Buyer | |
| **Trigger:** When buyer clicks create an account | |
| **Pre-condition:**  None | |
| **Main flow:**  1. Buyer clicks on “Create an account”  2. System redirects user to account creation page  3. Buyer insert user data information/credentials  4. Buyer clicks “Create” button  5. System displays message "Account created, you may now login." and redirect user to login page  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** 5.a. Blank input: System displays message "Invalid input" 5.b. Error: System displays message "Invalid credentials. Please try again." | |

**Use Case Description**

| **Name:** Seller - Create a user account | **ID:** #14 |
| --- | --- |
| **Stakeholders and goals:** Seller - To create my user account | |
| **Description:** As a Seller, I want to Create a user account, so that I can register and start listing my properties on the platform. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks create an account | |
| **Pre-condition:**  None | |
| **Main flow:**  1. Seller clicks on “Create an account”  2. System redirects user to account creation page  3. Seller enters user data information/credentials  4. Seller clicks “Create” button  5. System displays message "Account created, you may now login." and direct user to login page  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** 5.a. Blank input: System displays message "Please fill in all fields" 5.b. Error: System displays message "Invalid credentials. Please try again." | |

**Use Case Description**

| **Name:** SA - view user profiles | **ID:** #8 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To be able to view a list of existing user profiles | |
| **Description:** As a System admin, I want to View user profiles, so that I can access and review the details of different user profiles in the system. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks on “Profile” label | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on home page | |
| **Main flow:** 1. System Admin clicks on “Profile” 2. System displays all the existing user profiles with details  3. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** SA - search user profiles | **ID:** #9 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To search any user profiles | |
| **Description:** As a System admin, I want to Search user profiles, so that I can efficiently locate a specific user profile. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks search button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on user profile management page | |
| **Main flow:** 1. System Admin input the user profile name in the search bar 2. System Admin clicks on “Search”  3. System displays all similar existing user profile name that the user input  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  3.a. System Admin enters partial profile name: System display profile with matching partial profile name  3.b. System Admin enters blank: All profiles displayed | |

**Use Case Description**

| **Name:** SA - edit user profiles | **ID:** #10 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To edit any user profiles | |
| **Description:** As a System admin, I want to Edit user profiles so that I can edit/update/modify profile details. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin click manage button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on user profile management page | |
| **Normal flow:**  1. System Admin clicks on “Manage” button  2. System redirects user to system admin update user profile page 3. System popups a window to change profile name 4. System Admin input new profile name 5. System Admin clicks “Update” 6. System displays "User profile updated successfully" and direct user back to user profile management page 7. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  6.a. Blank input: System displays message "Invalid input" 6.b. Error: System displays message "Failed to update user profile. Please try again." | |

**Use Case Description**

| **Name:** SA - create user profiles | **ID:** #15 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To create user profiles | |
| **Description:** As a System admin, I want to Create user Profiles so that I can add new user profiles to the system. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks on create button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently on user profile management page | |
| **Main flow:** 1. System Admin clicks “Create” button 2. System redirects user to system admin create user profile page 3. System popup a window to create profile name 4. System Admin enters a profile name 5. System Admin clicks on “Create” button 6. System added a profile name into profile dashboard and displays a popup "User Profile created successfully" 7. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  6.a. Blank Input: System failed to add a profile name and display “Field cannot be empty” | |

**Use Case Description**

| **Name:** SA - suspend user profiles | **ID:** #11 |
| --- | --- |
| **Stakeholders and goals:** System Admin - To be able to suspend user profiles | |
| **Description:** As a System admin, I want to Suspend user profiles so that I can remove unused profiles. | |
| **Actors:** System Admin | |
| **Trigger:** When System Admin clicks on suspend button | |
| **Pre-condition:**  System Admin is logged in  System Admin is currently user profile management | |
| **Main flow:** 1. System Admin clicks on “Manage” button  2. System redirects user to system admin update user profile page  3. System Admin clicks “Suspend” 4. System displays a confirmation window says “Confirm profile suspension?” 5. System Admin clicks “Yes”  6. System suspends the selected profile and displays “Profile Suspended” 7. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  6.a. Suspension failed: System suspension of user profile is unsuccessful | |

**Use Case Description**

| **Name:** REA - create properties | **ID:** #22 |
| --- | --- |
| **Stakeholders and goals:** REA - To create new property listings | |
| **Description:** As a Real Estate Agent, I want to be able to Create new property listings, providing comprehensive details such as property type, location, amenities, and pricing, to attract potential buyers or renters. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks the create property listing button | |
| **Pre-condition:**  Real Estate Agent is logged in  Real Estate Agent is currently on REA’s my listing page | |
| **Main flow:**  1. Real Estate Agent clicks on “Create” button  2. System popups a window for inserting a listing 3. Real Estate Agent insert the property’s details/information  4. Real Estate Agent clicks “Create” button  5. System redirects the user to home page  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  5.a. Blank input: System displays "Invalid input"  5.b. Postal Code/Size/Price is not a number: System displays "Postal Code/Size/Price/rooms should be in number"  5.c. Invalid number of rooms (0 ~ 10) input: System displays "Please enter a valid number of rooms (0 ~ 10)"  5.d. Seller's username does not exist: System displays "Username doesn't not exist" | |

**Use Case Description**

| **Name:** REA - delete properties | **ID:** #27 |
| --- | --- |
| **Stakeholders and goals:** REA - To delete a property from the listings | |
| **Description:** As a Real Estate Agent, I want to be able to Delete a property listing from the platform, either because it has been sold or rented out, or because it is no longer available for other reasons. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks the delete button | |
| **Pre-condition:**  Real Estate Agent is logged in  Real Estate Agent is currently on REA’s “My Properties” page | |
| **Main flow:**  1. Real Estate Agent clicks on the “Manage” button  2. System redirects user to REA's update property page  3. Real Estate Agent clicks “Delete” button 4. System displays “Are you sure you want to delete this property?”  5. Real Estate Agent clicks on "Yes" button 6. System deletes the property from the list 7. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  6.a. Error: System displays “Error deleting Property” | |

**Use Case Description**

| **Name:** REA - edit properties | **ID:** #25 |
| --- | --- |
| **Stakeholders and goals:** REA - To edit existing property listings | |
| **Description:** As a Real Estate Agent, I want to be able to Edit existing property listings, such as modifying property details and adjusting pricing, to reflect any changes accurately. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks the update button | |
| **Pre-condition:**  Real Estate Agent is logged in  Real Estate Agent is currently on viewing a property listing | |
| **Main flow:**  1. Real Estate Agent clicks on the “Update” button  2. System redirects user to REA's update property page  3. Real Estate Agent insert the property’s new details/information  4. Real Estate Agent clicks “Update” button 5. System displays “Property updated successfully”  6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** 5.a. Blank input: System displays "Please fill in all the fields"  5.b. Invalid number of rooms (0 ~ 10) input: System displays "Please enter a valid number of rooms (0 ~ 10)"  5.c. Seller's username does not exist: System displays "Failed to update property" | |

**Use Case Description**

| **Name:** REA - view ratings | **ID:** #30 |
| --- | --- |
| **Stakeholders and goals:** REA - To view ratings for agent | |
| **Description:** As a Real Estate Agent, I want to be able to view the ratings I have been given by buyers and sellers so that I can review my own performance based on ratings given. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks on the Review label | |
| **Pre-condition:**  Real Estate Agent is logged in | |
| **Main flow:**  1. Real Estate Agent clicks on the “Reviews”  2. System redirects Real Estate Agent to Review page  3. System displays current Real Estate Agent’s average ratings  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** REA - view reviews | **ID:** #32 |
| --- | --- |
| **Stakeholders and goals:** REA - To view reviews for agent | |
| **Description:** As a Real Estate Agent, I want to be able to view the reviews I have been given by buyers and sellers so that I can review my own performance based on reviews given. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks on the Review label | |
| **Pre-condition:**  Real Estate Agent is logged in  Real Estate Agent is on the Reviews page | |
| **Main flow:**  1. System displays all reviews under Real Estate Agent  2. Real Estate Agent clicks on “View” button beside review  3. System opens a new window to display the specific review  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Seller - view agents tied to properties | **ID:** #597 |
| --- | --- |
| **Stakeholders and goals:** Seller - To be able to view Real Estate Agent tied to listing(s) | |
| **Description:** As a Seller, I want to View the agents who are tied to my different properties | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks on “View” button | |
| **Pre-condition:**  Seller is logged in  Seller is on their Main Page | |
| **Main flow:** 1. Seller clicks on “View” button beside their property listing 2. System redirects Seller to view property page 3. System displays property details along with Real Estate Agent tied to it 4. End. | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Seller - view shortlisted properties | **ID:** #31 |
| --- | --- |
| **Stakeholders and goals:** Seller - To be able to view the number of times that my property listings have been shortlisted | |
| **Description:** As a Seller, I want to view the number of times my property has been shortlisted, so that I can monitor the level of interest and engagement on my property listings. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks on “View” button | |
| **Pre-condition:**  Seller is logged in  Seller is on main page | |
| **Main flow:** 1. Seller clicks on “View” button beside their property listing 2. System redirects Seller to view property page with times shortlisted displayed 3. Seller views how many times each property has been shortlisted  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Seller - view property’s number of views | **ID:** #28 |
| --- | --- |
| **Stakeholders and goals:** Seller - To be able to view the number of times that my property listings have been viewed | |
| **Description:** As a Seller, I want to view the number of times my property has been viewed, so that I can monitor the level of interest and engagement on my property listings. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks on “View” button | |
| **Pre-condition:**  Seller is logged in  Seller is on main page | |
| **Main flow:** 1. Seller clicks on “View” button beside their property listing 2. System redirects Seller to view property page with times viewed displayed 3. Seller views how many times each property has been viewed  4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - view agent account details | **ID:** #40 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To be able to view Real Estate Agent account details | |
| **Description:** As a buyer, I want to View the account details of a real estate agent, including their contact information, and reviews, to assess their suitability for my needs. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on “View” button tagged to Real Estate Agent | |
| **Pre-condition:**  Buyer is logged in  Buyer is currently on agents page | |
| **Main flow:** 1. Buyer clicks on “View” button 2. System redirects Buyer to view REA profile page 3. Buyer views all the existing Real Estate Agent profile 4. End. | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - Add OLD properties to a shortlist | **ID:** #43 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To add OLD properties into Shortlist | |
| **Description:** As a buyer, I want to be able to Add OLD property listings to a shortlist, so that I can easily access and track properties that interest me | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to add OLD property to shortlist | |
| **Pre-condition:**  Buyer is logged in  There are existing properties in database | |
| **Main flow:**   1. Buyer clicks on “heart” icon tagged to listing 2. System displays “Successfully added to shortlist” and adds property into shortlist 3. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  2.a.The property already exists in the buyer’s shortlist: System displays “Failed to add. Please try again.”  2b. The system cannot insert the property into the shortlist: System displays “Failed to add. Please try again.” | |

**Use Case Description**

| **Name:** Buyer - View OLD properties on the platform | **ID:** #41 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To view any of the OLD property listing details | |
| **Description:** As a buyer, I want to View details about an OLD property listing on the platform, including details such as property features, and pricing so that I can compare their details. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on “OLD” in drop down box | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer clicks the drop-down box on the left side of the search bar 2. System displays “ALL”, “NEW” and “OLD” 3. Buyer clicks on “OLD” 4. System displays all of the OLD property listings 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - Search for OLD properties based on address | **ID:** #634 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To Search for OLD property listings | |
| **Description:** As a buyer, I want to Search for OLD property listings so that I can view details about the OLD property | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to clicks on search with “OLD” value in drop down box | |
| **Pre-condition:**  Buyer is logged in  Drop down box filter value is set to “OLD” | |
| **Main flow:**   1. Buyer type the address in the search bar 2. Buyer clicks on “Search” button 3. System displays all of the OLD matching searched properties 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  3.a. Buyer enters partial address name: System displays OLD property with matching partial address  3.b. Buyer enters blank: All OLD property displayed | |

**Use Case Description**

| **Name:** REA - view my properties | **ID:** #23 |
| --- | --- |
| **Stakeholders and goals:** Real Estate Agent - To be able to view my property details | |
| **Description:** As a Real Estate Agent, I want to View my property listings available on the platform, to assist clients in their search for suitable properties. | |
| **Actors:** Real Estate Agent | |
| **Trigger:** When Real Estate Agent clicks on “My Properties” label | |
| **Pre-condition:**  Real Estate Agent is logged in | |
| **Main flow:**   1. Real Estate Agent clicks on “My Properties” label 2. System displays list of Real Estate Agent’s listings 3. Real Estate Agent clicks on “Manage” button tagged to property 4. System displays all details of selected property 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - View NEW properties | **ID:** #44 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To view NEW properties’ details | |
| **Description:** As a buyer, I want to View details about a NEW property listing on the platform so that I can check the details such as property features, and pricing. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on “NEW” in drop down box | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer clicks the drop-down box on the left side of the search bar 2. System displays “ALL”, “NEW” and “OLD” 3. Buyer clicks on “NEW” 4. System displays all of the OLD property listings 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - Search for NEW specific properties based on criteria | **ID:** #635 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To Search for NEW property listings | |
| **Description:** As a buyer, I want to Search for NEW property listings so that I can view details about the NEW property | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to search for NEW property listing(s) | |
| **Pre-condition:**  Buyer is logged in  Drop down box filter value is set to “NEW” | |
| **Main flow:**   1. Buyer type the address in the search bar 2. Buyer clicks on “Search” button 3. System displays all of the NEW matching searched properties 4. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  3.a. Buyer enters partial address name: System display NEW property with matching partial address  3.b. Buyer enters blank: All NEW property displayed | |

**Use Case Description**

| **Name:** Buyer - Add NEW properties to a shortlist | **ID:** #46 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To add NEW listings into Shortlist | |
| **Description:** As a buyer, I want to Add NEW property listings to a shortlist, so that I can easily access and track properties that interest me. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to add NEW property to shortlist | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer leaves a default setting. 2. System displays the property listings. 3. Buyer clicks on the heart button to add an item into the favorite list / shortlist. 4. System adds property into the buyer’s favorite list and returns success. 5. End. | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a.The property already exists in the buyer’s favorite list.  4.b. The system cannot insert the property into the favorite list. | |

**Use Case Description**

| **Name:** Buyer - Search for properties based on address | **ID:** #607 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To Search for property listings based on the address | |
| **Description:** As a buyer, I want to Search for property listings based on their address so that I can find property in the location I want. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to clicks on “Search” button | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer clicks on the search bar 2. Buyer types in address 3. Buyer clicks on “Search” button 4. System shows all the matching address name from user input 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a. Buyer enters partial address name: System display NEW property with matching partial address  4.b. Buyer enters blank: All NEW property displayed | |

**Use Case Description**

| **Name:** Buyer - Calculate mortgage estimates | **ID:** #47 |
| --- | --- |
| **Stakeholders and goals:** Buyer - To calculate the mortgage estimation | |
| **Description:** As a buyer, I want to Calculate mortgage estimates based on loan amount, interest rate, and loan term, to determine my budget and affordability. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer wants to calculate the mortgage estimates | |
| **Pre-condition:**  Buyer is logged in | |
| **Main flow:**   1. Buyer clicks on “Mortgage Calculator” 2. System popups mortgage calculator window to enter loan, rate, and other details 3. Buyer enters loan, rate, and duration in years 4. Buyer clicks on “Calculate button” 5. System displays Mortgage price 6. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:** | |

**Use Case Description**

| **Name:** Buyer - Review real estate agents | **ID:** #49 |
| --- | --- |
| **Stakeholders and goals:** Buyer - review real estate agent | |
| **Description:** As a buyer, I want to review real estate agents based on my experience with them, providing feedback to help other users make informed decisions. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks on “Review” button when viewing Real Estate Agent | |
| **Pre-condition:**  Buyer is logged in  Buyer is currently on view REA profile page | |
| **Main flow:**   1. Buyer clicks on “Review” button 2. System popups window of agent’s username and text box column 3. Buyer writes review 4. Buyer clicks “Submit” button 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a: If review is too long: System displays “Review failed to submit” | |

**Use Case Description**

| **Name:** Buyer - Rate real estate agents | **ID:** #48 |
| --- | --- |
| **Stakeholders and goals:** Buyer - rate agents based on my experience | |
| **Description:** As a buyer, I want to rate real estate agents based on my experience with them, providing feedback to help other users make informed decisions. | |
| **Actors:** Buyer | |
| **Trigger:** When Buyer clicks “Rate” button when viewing Real Estate Agent | |
| **Pre-condition:**  Buyer is logged in  Buyer is currently on view REA profile page | |
| **Main flow:**   1. Buyer clicks on “Rate” button 2. System popups window of agent’s username and number column 3. Buyer gives rating 4. Buyer clicks on “Submit” button 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a: If rating is less than 0 or more than 5: System displays “Please enter a rating between 0 and 5.”  4.b: If rating field is empty: System displays “Please enter a rating.” | |

**Use Case Description**

| **Name:** Seller - Rate real estate agents | **ID:** #33 |
| --- | --- |
| **Stakeholders and goals:** Seller - rate agents based on my experience | |
| **Description:** As a seller, I want to rate real estate agents based on my experience with them, providing feedback to help other users make informed decisions. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks “Rate” button when viewing Real Estate Agent | |
| **Pre-condition:**  Seller is logged in  Seller is currently on view REA profile page | |
| **Main flow:**   1. Seller clicks on “Rate” button 2. System popups window of agent’s username and number column 3. Seller gives rating 4. Seller clicks on “Submit” button 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a: If rating is less than 0 or more than 5: System displays “Please enter a rating between 0 and 5.”  4.b: If rating field is empty: System displays “Please enter a rating.” | |

**Use Case Description**

| **Name:** Seller - Review real estate agents | **ID:** #34 |
| --- | --- |
| **Stakeholders and goals:** Seller- review real estate agent | |
| **Description:** As a Seller, I want to review real estate agents based on my experience with them, providing feedback to help other users make informed decisions. | |
| **Actors:** Seller | |
| **Trigger:** When Seller clicks on “Review” button when viewing Real Estate Agent | |
| **Pre-condition:**  Seller is logged in  Seller is currently on view REA profile page | |
| **Main flow:**   1. Seller clicks on “Review” button 2. System popups window of agent’s username and text box column 3. Seller writes review 4. Seller clicks “Submit” button 5. End | |
| **Sub-flows:** None. | |
| **Alternative/Exceptional flows:**  4.a: If review is too long: System displays “Review failed to submit” | |