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# 7 Use Case Diagram

Figure: Use case diagram

# 6 Use Case Description

All use cases from use case diagram are explained here.

Use case 1: Access account

|  |  |  |
| --- | --- | --- |
| Use Case | Access account | |
| Goal | Stakeholders wants to sign in or sign up to the system. | |
| Preconditions |  | |
| Success End  Condition | Stakeholders can access his old account or create new account. | |
| Failed End  Condition | Stakeholders don’t have access to account. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Access account request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to access account. |
| 2 | System will show sign in option and sign up option. |
| Alternative Flows | Step | Branching Action |
|  | Not applicable. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 2: Sign up

|  |  |  |
| --- | --- | --- |
| Use Case | Sign up | |
| Goal | Stakeholders will use our system services and be a part to the system. | |
| Preconditions |  | |
| Success End Condition | Stakeholders will be a user of the system. Can use many functionalities based on user access. | |
| Failed End Condition | Stakeholders won’t be a user of the system. Don’t have access to the system functionalities. | |
| Primary Actors:  Secondary Actors: | Tenant, Owner. | |
| Trigger | Sign up request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested for sign up |
| 2 | Stakeholders will choose user type form like tenant or landlord. |
| 3 | Stakeholders then need to fill preferred information in the form. For tenants they have to provide their name, mobile number, unique username, password and email. For landlords they have to provide their name, mobile number, unique username, password, house address and email. |
| 4 | After filling all the information correctly system will show the submit button. And stakeholders can click and submit the information to the system. |
| 5 | System will now collect the information of the user. |
| 6 | For confirming the user information, system will send a confirmation code to the user mobile number. |
| 7 | A popup window will appear for entering the confirmation code. |
| 8 | User have to write the code at the popup window and click submit. |
| 9 | System will then check and verify the confirmation code. |
| 10 | System will then show the ads information page as default. |
| Alternative Flows | Step | Branching Action |
| 3a | System will check the username while stakeholders typing on that field and show whether the username is available or not. |
| 7a | Stakeholders can resend the confirmation code again to their mobile phone. |
| 10a | If the confirmation code is not valid then system will again ask for the confirmation code. |
| Quality  Requirements | Step | Requirement |
| 7 | User have to confirm the code within 2 minutes. After this time the confirmation code will be invalid. |

Use case 3: Sign in

|  |  |  |
| --- | --- | --- |
| Use Case | Sign in | |
| Goal | Stakeholders wants to sign in and use the system functionalities. | |
| Preconditions | Stakeholders is a user of the system. | |
| Success End Condition | Showing a page with ads information. | |
| Failed End  Condition | Not a user or the username or password is invalid. Stay on the login page. | |
| Primary Actors:  Secondary Actors: | Tenant, owner | |
| Trigger | Sign in request | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested for sign in. |
| 2 | Stakeholders enter their username and password. |
| 3 | Stakeholders will click sign in. |
| 4 | System will check the username and password and show the ads information page. |
| Alternative Flows | Step | Branching Action |
| 3a | Stakeholders forget their password. |
| 3a1 | Stakeholders click on forget password. |
| 3a2 | System will prompt for entering stakeholders’ mobile number and username. |
| 3a3 | System then check the mobile number whether the current device has the given mobile number. If not, it again prompts the user to enter the valid mobile number. |
| 3a4 | If the mobile number is valid system then sends a confirmation code to that mobile number. |
| 3a5 | System then popup for entering the confirmation code. |
| 3a6 | System will check the confirmation code if it’s wrong it again prompt for entering the confirmation code. |
| 3a7 | If the confirmation code is correct system then prompt the user to enter the new password for his username. |
| 3a8 | System now again prompt the user to login with the new username and password. |
| 4a | If username and password does not match then system will prompt stakeholders to reenter the password. |
| Quality  Requirements | Step | Requirement |
| 3a5 | User have to confirm the code within 2 minutes. After this time the confirmation code will be invalid. |

Use case 4: View owned houses

|  |  |  |
| --- | --- | --- |
| Use Case | View owned houses | |
| Goal | Landlords wants to see his houses which is added before in the system. | |
| Preconditions | Landlords are signed in. | |
| Success End Condition | The system displays landlords owned houses. | |
| Failed End  Condition | No owned house and house information still added. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | View owned houses request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to see his owned houses list. |
| 2 | System will collect landlords house information by his name and UserID and validate the information. |
| 3 | System will show landlords all added or owned houses as list and each house as house name, house holding number, house address and how many tenants lived in that house. |
| Alternative Flows | Step | Branching Action |
|  | Not alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 5: Add house

|  |  |  |
| --- | --- | --- |
| Use Case | Add house | |
| Goal | Landlords wants to add his owned house information in the system. | |
| Preconditions | Landlords are signed in. | |
| Success End Condition | The system will add house at owned house list. | |
| Failed End  Condition | House will not be added in owned house list. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Add house request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to add house. |
| 2 | Landlords needs to fill a form by adding house name, house address, number of flats, number of units in each flat, house holding number. |
| 3 | System will then validate the house holding number. |
| 4 | System then add the house as landlords owned house and show a notification message that the house information is added successfully. |
| 5 | The house will then show in the houses list. |
| Alternative Flows | Step | Branching Action |
| 3a | System will prompt that invalid house holding number entered and ask landlords to enter a valid house holding number. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 6: Remove House

|  |  |  |
| --- | --- | --- |
| Use Case | Remove house | |
| Goal | Landlords wants to remove his old house from owned houses list | |
| Preconditions | Landlords are signed in.  Landlords have owned houses.  Landlords select a house. | |
| Success End Condition | The system will remove the selected house and its information from owned houses list. | |
| Failed End  Condition | No owned house and house information will be deleted. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Delete owned house request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to delete his owned house. |
| 2 | System will prompt for confirm the deletion of the house. |
| 3 | Landlords confirm the deletion. |
| 4 | System will collect landlords house holding number from the selected house. |
| 5 | System then delete the house information for landlords. |
| Alternative Flows | Step | Branching Action |
| 2a | Landlords cancel the deletion. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 7: View House Info

|  |  |  |
| --- | --- | --- |
| Use Case | View House Info | |
| Goal | Landlords wants to see his house information. | |
| Preconditions | Landlords are signed in.  Landlords have owned houses.  Landlords select a house. | |
| Success End Condition | The system will show the selected house information from owned houses list. | |
| Failed End  Condition | No owned house information will be shown. | |
| Primary Actors:    Secondary Actors: | Landlords | |
| Trigger | View house information request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to show information of his owned house. |
| 2 | System will collect landlords house holding number from the selected house. |
| 3 | System will show the house information like house name, house address, number of flats, number of units in each flat, house holding number and how many tenants live in the house. |
| 4 | After getting reply from database server, system will show a view with that information collected from database server. |
| Alternative Flows | Step | Branching Action |
|  | No alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 8: Edit House Information

|  |  |  |
| --- | --- | --- |
| Use Case | Edit house information | |
| Goal | Landlords wants to edit his house information. | |
| Preconditions | Landlords are signed in.  Landlords have owned houses.  Landlords select a house. | |
| Success End Condition | Landlords will update his house information. | |
| Failed End  Condition | No house information will be updated. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Edit house information request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to edit information of the selected owned house. |
| 2 | System will collect landlords house holding number from the selected house. |
| 3 | System will show selected house information like house holding number, house name, house address, number of flats, number of units in each flat. |
| 4 | Landlords can edit any information shown by the system. |
| 5 | Landlords now can update his edited house information by clicking update. |
| 6 | System will ask landlords to confirm that information will be updated. |
| 7 | System will show notification that house information is updated. |
| Alternative Flows | Step | Branching Action |
| 4a | Landlords choose not to edit any information and cancel to update information. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 9: Add tenant information

|  |  |  |
| --- | --- | --- |
| Use Case | Add tenant information | |
| Goal | Landlords wants to add tenant information in his house. | |
| Preconditions | Landlords are signed in.  Landlords have owned houses.  Landlords select a house.  Landlords have tenants in his house. | |
| Success End Condition | Landlords added tenant information in the selected house. | |
| Failed End  Condition | No tenant information added in the selected house. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Add tenant information request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to add tenant information to his selected owned house. |
| 2 | System will prompt for entering tenants name, tenants’ mobile number, tenants NID picture, unit and floor number where he lives. |
| 3 | Landlords have to provide all the information and can click at add tenant. |
| 4 | System will ask to confirm that this information is correct. |
| 5 | After confirmation system will store that information at the selected house as a tenant. |
| Alternative Flows | Step | Branching Action |
| 3a | Click cancel not to provide the information. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 10: Remove tenant information

|  |  |  |
| --- | --- | --- |
| Use Case | Remove tenant information | |
| Goal | Landlords wants to remove tenant information in his house. | |
| Preconditions | Landlords are signed in.  Landlords have owned houses.  Landlords select a house.  Landlords have tenants in his house. | |
| Success End Condition | Landlords removed tenant information in the selected house. | |
| Failed End  Condition | No tenant information removed in the selected house. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Remove tenant information request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to remove tenant information to his selected owned house by. |
| 2 | System will ask to confirm the deletion of tenant information. |
| 3 | Landlords can confirm the deletion. |
| 4 | System then delete the tenant information as house tenant. |
| 5 | System will update the tenant information list. |
| Alternative Flows | Step | Branching Action |
| 2a | System will cancel to delete tenant information. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 11: Show Created Ads

|  |  |  |
| --- | --- | --- |
| Use Case | Show Created Ads | |
| Goal | Landlords can manage his created ads | |
| Preconditions | Landlords is signed in. | |
| Success End Condition | The system displays landlords created ads. | |
| Failed End  Condition | No Ads created. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Show created ads request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to see his created ads list. |
| 2 | System will collect landlords all created ads and will display as ads information list. |
| Alternative Flows | Step | Branching Action |
| 2a | Landlords can remove selected ads. See use case Remove ads. |
| 2b | Landlords can edit selected ads. See use case Edit ads. |
| 2c | Landlords can boost selected ads. See use case Boost ads. |
| 2d | Landlords can create new ads. See use case Create ads. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 12: Create Ads

|  |  |  |
| --- | --- | --- |
| Use Case | Create ads | |
| Goal | Landlord wants to create his own ads. | |
| Preconditions | Landlords is signed in. | |
| Success End Condition | Landlords successfully create his house ads. | |
| Failed End  Condition | No new ads created. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Create ads request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested for creating new ads. |
| 2 | System will display a form where landlords have to fill up by giving number of beds, rent per month, gas and water bill, picture of that house, deposit paid, terms and conditions to follow acceptance. |
| 3 | After filling up all the information in the form landlords can submit ads information. |
| 4 | System will request for providing ads duration (how many days ads will show) with a minimum of 3 days and maximum of 2 months. |
| 5 | System will calculate total cost for that ads by multiply per day ads cost with total ads duration and display it below ads duration. |
| 6 | See use case Pay money. |
| 7 | System now store the ads information and show newly created ads in created ads list. |
| Alternative Flows | Step | Branching Action |
| 3a | Landlords choose cancel not to submit the information. |
| 5a | System will show landlords to boost the ad. See use case Boost Ads. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 13: Edit ads

|  |  |  |
| --- | --- | --- |
| Use Case | Edit ads | |
| Goal | Landlords wants to edit his created ads. | |
| Preconditions | Landlords is signed in.  Landlords has created ads.  Landlords selected an ad. | |
| Success End Condition | Landlords successfully update his created ads. | |
| Failed End Condition | Landlords failed to edit his created ads. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Edit ads request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to edit selected ad. |
| 2 | System will display all information about that ads. |
| 3 | Now landlords can modify any information about that ad which he wants to. |
| 4 | After filling up all the information in the form landlords can submit ads information. |
| 5 | System will check landlords selected ad remaining time duration then ask landlord whether he wants to extend the time. |
| 6 | Landlords can extend the time duration. |
| 7 | System will calculate total cost for that ads by multiply per day ads cost with total ads duration and display it below ads duration. |
| 8 | See use case Pay money. |
| 9 | System store the changed information and update the ads information list. |
| Alternative Flows | Step | Branching Action |
| 4a | Landlords choose cancel to update the information. |
| 6a | Landlords don’t extend the time duration. System then store the changed information. |
| 6b | If ad is already boosted system will show the remaining boosted time. |
| 6c | If ads remaining time is zero days then system will prompt landlords to extend the time for the ads. |
| 6c1 | If landlord won’t extend the time duration then system won’t update the ads information |
| 7a | System will show landlords to boost the ad if it is not boosted. See use case Boost Ads. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 14: Remove ads

|  |  |  |
| --- | --- | --- |
| Use Case | Remove ads | |
| Goal | Landlords wants to remove his created ads. | |
| Preconditions | Landlords is signed in.  Landlords has created ads.  Landlords selected an ad. | |
| Success End Condition | Landlords successfully remove his created ads. | |
| Failed End Condition | Landlords failed to remove his created ads. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Remove ads request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to remove his selected ad. |
| 2 | System will check the ads time duration is still remaining or not if it is not then system will delete the ads from the created ads list and also from ads information list. |
| 3 | After removing the ads, system will display notification that the ad removed successfully. |
| Alternative Flows | Step | Branching Action |
| 2a | If the ads time duration is still remaining, then the system will show how much money system will pay back to landlords. |
| 2a1 | Landlords will select next. |
| 2a2 | See use case Pay money. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 15: Boost ads

|  |  |  |
| --- | --- | --- |
| Use Case | Boost ads | |
| Goal | Landlords wants to boost his created ads. | |
| Preconditions | Landlords is signed in.  Landlords has created ads.  Landlords selected an ad. | |
| Success End Condition | Landlords successfully boost his created ads. | |
| Failed End Condition | Landlords failed to boost his created ads. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Boost ads request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to boost his created ads |
| 2 | System will prompt landlords that how many days he wants to boost his ads. |
| 3 | Landlords will provide boost duration as days. |
| 4 | Then system will calculate total cost for boosting that ads by multiply per day boosting cost with total boosting duration. |
| 5 | See use case Pay money. |
| 6 | System will boost the ad and update the ad as boosted ads. |
| Alternative Flows | Step | Branching Action |
| 2a | Landlords selected not to boost the ad and clicked cancel. |
| Quality  Requirements | Step | Requirement |
|  |  |

Use case 16: Pay money

|  |  |  |
| --- | --- | --- |
| Use Case | Pay money | |
| Goal | Show money amount. | |
| Preconditions | Landlords are signed in.  Landlords either remove ads or edit ads or boost ads or create ads. | |
| Success End Condition | Given money amount selected. | |
| Failed End  Condition | No money amount selected. | |
| Primary Actors:  Secondary Actors: | Landlords, System | |
| Trigger | Pay money request. | |
| Main Success Flows | Step | Action |
| 1 | System ask the landlords to accept the money amount. |
| 2 | Landlords accepted the money amount. |
| 3 | See use case Mobile financial services. |
| Alternative Flows | Step | Branching Action |
| 2 | Landlords choose cancel to provide the money. |
| Quality  Requirements | Step | Requirement |
|  |  |

Use case 17: Mobile financial services

|  |  |  |
| --- | --- | --- |
| Use Case | Mobile financial services. | |
| Goal | Choose financial service. | |
| Preconditions | Landlords are signed in.  Landlords accepted the cost amount. | |
| Success End Condition | Financial services selected. | |
| Failed End  Condition | No financial service selected. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | Select mobile financial service request. | |
| Main Success Flows | Step | Action |
| 1 | System ask the landlords to select financial service such as bKash, Rocket, Nagad. |
| 2 | Landlords selected their preferred financial service. |
| Alternative Flows | Step | Branching Action |
| 2a | See use case bKash. |
| 2b | See use case Rocket. |
| 2c | See use case Nagad. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 18: bKash

|  |  |  |
| --- | --- | --- |
| Use Case | bKash | |
| Goal | Pay through bKash | |
| Preconditions | Landlords are signed in.  Landlords accepted the cost amount. | |
| Success End Condition | Landlords selected bKash service for paying or getting money. | |
| Failed End  Condition | bKash service not selected. | |
| Primary Actors:  Secondary Actors: | Landlords | |
| Trigger | bKash service selected request. | |
| Main Success Flows | Step | Action |
| 1 | Landlords requested to pay through bKash. |
| 2 | System will prompt user to enter a valid bKash number. |
| 3 | Landlords enter the bKash number. |
| 4 | System will validate the bKash number. |
| 5 | See use case Transaction money. |
| Alternative Flows | Step | Branching Action |
| 4a | System will prompt user wrong bKash number. |
| 4a1 | System again ask the user to enter valid bKash number. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 19: Transaction money

|  |  |  |
| --- | --- | --- |
| Use Case | Transaction money | |
| Goal | Transact money from mobile bank. | |
| Preconditions | Landlords are signed in.  Landlords accepted the cost amount.  Landlords selected any financial service. | |
| Success End Condition | Landlords successfully pay money for his ads. | |
| Failed End  Condition | Insufficient money on the selected financial service and ads not boosted or added or removed or edited. | |
| Primary Actors:  Secondary Actors: | System  Mobile bank | |
| Trigger | Money transaction request. | |
| Main Success Flows | Step | Action |
| 1 | System will give a request to the specific mobile financial bank selected by the landlords for getting transaction of an amount. |
| 2 | System will provide the amount of money and the mobile number. |
| 3 | Mobile bank will validate whether the given mobile number has sufficient money for transaction. |
| 4 | Mobile bank will transfer that amount of money from mobile bank to system bank. |
| 5 | System then ask the stakeholders to enter the transaction id sent from mobile bank to the mobile number (financial service number). |
| 6 | Getting full amount of money system will show a notification that the amount payment completed. And either add ads or remove ads or boost ads or edit ads. |
| Alternative Flows | Step | Branching Action |
| 3a | System will prompt the stakeholders that there is not sufficient money in financial service account. |
| 3a1 | System then go back to use case Mobile financial services. |
| 5a | System will ask the stakeholders to enter the valid transaction id. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 20: Show all ads

|  |  |  |
| --- | --- | --- |
| Use Case | Show all ads | |
| Goal | Stakeholders will see all ads in ads information page (dashboard). | |
| Preconditions | Stakeholder are signed in. | |
| Success End  Condition | Stakeholders will see all the available ads. | |
| Failed End  Condition | No ads are available and can’t see anything about ads. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Requested for showing all ads. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to show all ads. |
| 2 | System will load all ads from the database server. |
| 3 | System will show boosted ads at first then normal ads randomly listed in ads information page. |
| 4 | All ads will contain ads title, address of the house and thumbnail picture of the house. |
| Alternative Flows | Step | Branching Action |
|  | No alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 21: View favorite ads

|  |  |  |
| --- | --- | --- |
| Use Case | View favorites ads | |
| Goal | Stakeholders wants to see his bookmarked ads. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can see his bookmarked ads in favorites list. | |
| Failed End  Condition | Favorites list is empty. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Requested for seeing favorites ads. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to see his favorites. |
| 2 | System will show the favorite ads list. |
| 3 | All ads will contain ads title, address of the house, thumbnail picture of the house and a button to remove. |
| Alternative Flows | Step | Branching Action |
| 3a | Stakeholders can remove ads from favorites by clicking on remove. |
| 3a1 | System will remove the ads from favorites. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 22: Add ads to favorite

|  |  |  |
| --- | --- | --- |
| Use Case | Add ads to favorite | |
| Goal | Save or bookmark ads to see them in future. | |
| Preconditions | Stakeholders are signed in. Stakeholders at the ad’s information page. | |
| Success End  Condition | Ads will be added into favorites list. | |
| Failed End  Condition | Ads won’t added in the favorites list. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Request for add ads in favorites list. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders will click add to favorite button beside each ad. |
| 2 | System will add the ads in the favorites list. |
| 3 | System will show a notification that ads is added to favorites list. |
| Alternative Flows | Step | Branching Action |
| 1a | If the ads already added to the system then it will remove the ads from favorites list. |
| 1a1 | It will show notification to the user that ads are removed from favorites list. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 23: Manage profile

|  |  |  |
| --- | --- | --- |
| Use Case | Manage profile | |
| Goal | Stakeholders wants to see or edit his profile information. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can manage his profile. | |
| Failed End  Condition | Can’t do anything to the profile. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Manage profile request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to manage profile. |
| 2 | System will give access to stakeholder’s profile for viewing his information or editing. |
| 3 | System will show view option and edit option. |
| Alternative Flows | Step | Branching Action |
|  | No alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 24: View profile information

|  |  |  |
| --- | --- | --- |
| Use Case | View profile information | |
| Goal | Stakeholders wants to see his profile. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can see his profile information. | |
| Failed End  Condition | No profile information will be shown. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | View profile request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested for seeing profile information. |
| 2 | System will collect stakeholder’s information from the database server. |
| 3 | System will show stakeholders information like profile picture, stakeholders name, mobile number, email, username. |
| Alternative Flows | Step | Branching Action |
|  | No alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 25: Edit profile information

|  |  |  |
| --- | --- | --- |
| Use Case | Edit profile information | |
| Goal | Stakeholders will update his profile information. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders profile will be updated. | |
| Failed End  Condition | No information of profile will change or get updated. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Requested for editing profile. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to edit profile. |
| 2 | System will show a form by filling the existing information of the stakeholders. |
| 3 | Stakeholders now can edit his information like his name, mobile number, email and can upload his profile picture. |
| 4 | After editing stakeholder’s information now, he will click on update and all old information will be replaced by new one. |
| 5 | System now will reload all information. |
| Alternative Flows | Step | Branching Action |
| 4a | System will prompt stakeholders whether he wants to update the information or not. |
| 4a1 | Stakeholders choose cancel to update the information then system will prompt again whether he wants to discard all the changes currently he made. |
| 4a2 | System will discard all changes made to the form and reload the old information. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 26: View notifications

|  |  |  |
| --- | --- | --- |
| Use Case | View notification | |
| Goal | Stakeholders wants see their notifications. | |
| Preconditions | Stakeholders is signed in. | |
| Success End Condition | Stakeholder successfully can see his notifications. | |
| Failed End Condition | There are no notifications. | |
| Primary Actors:  Secondary Actors: | Landlord, Tenants | |
| Trigger | Show notification request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to see his notifications. |
| 2 | System will display all notification information as list and each notification will contain subject and sender mail address. |
| 3 | If stakeholder clicks on any of the notification, then system will display all notification subject and notification description of the selected notification. |
| Alternative Flows | Step | Branching Action |
| 3a | If Stakeholder clicks notification remove button beside each notification. |
| 3a1 | System will remove that notification from the notification list. |
| 3a2 | System will show remaining notifications. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 27: Search for house ads

|  |  |  |
| --- | --- | --- |
| Use Case | Search for house ads | |
| Goal | Stakeholders wants to search house. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can see house ads based on search criteria. | |
| Failed End  Condition | No house ads found based on that criteria. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Search house ads request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to search ads. |
| 2 | Stakeholders will give ads title and click on search option. |
| 3 | System will search from the database server based on ads title given by stakeholders. |
| 4 | System then shows ads which is matched the ads title at first then related ads will show as related ads section at last in the list. |
| Alternative Flows | Step | Branching Action |
|  | No alternative flow. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 28: Search house ads nearby

|  |  |  |
| --- | --- | --- |
| Use Case | Search house ads nearby | |
| Goal | Stakeholders wants to search house in his area. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can see house ads near his area. | |
| Failed End  Condition | No house ads found near stakeholders’ area. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Search house ads nearby request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to search ads nearby. |
| 2 | System will detect stakeholder’s location. |
| 3 | System will search from the database server based on location captured from stakeholder’s current location. |
| 4 | System then shows ads which is matched the location at first then related ads will show as related ads section at last in the list. |
| Alternative Flows | Step | Branching Action |
| 2a | If system can’t get access to device location, system will prompt the stakeholders to turn on the location service and give system permission to access the location. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Use case 29: Search house by filtering

|  |  |  |
| --- | --- | --- |
| Use Case | Search house by filtering | |
| Goal | Stakeholders wants to search house by specific criteria. | |
| Preconditions | Stakeholders are signed in. | |
| Success End  Condition | Stakeholders can see house ads based on their given criteria. | |
| Failed End  Condition | No house ads found by the given criteria. | |
| Primary Actors:  Secondary Actors: | Landlords, Tenants | |
| Trigger | Search house by filtering request. | |
| Main Success Flows | Step | Action |
| 1 | Stakeholders requested to search ads by giving criteria. |
| 2 | System will show a filter box which contains filter by ads title, rooms count, rent per month, location and flat size. |
| 3 | Stakeholders will give necessary filter information and click on search. |
| 4 | System then shows ads which is matched the given criteria at first then related ads will show as related ads section at last in the list. |
| Alternative Flows | Step | Branching Action |
| 2a | If no filter given system will prompt for filling any criteria. |
| Quality  Requirements | Step | Requirement |
|  | Not applicable. |

Requirement Traceability Matrix

Business Requirements:

|  |  |
| --- | --- |
| BR# | Business requirements |
| BR1 | Allow stakeholder to search by location |
| BR2 | Allow landlords to store and access tenant’s information |
| BR3 | Allow landlords to create remove and edit ads. |
| BR4 | Allow stakeholder to bookmarks vacant ads. |
| BR5 | Allow stakeholder to communicate with landlords for rent. |
| BR6 | Allow landlords to boost his ads. |
| BR7 | Check provide information is correct or not. |

Test Case:

|  |  |
| --- | --- |
| Test case No | Test case |
| TC1 | Chittagong,2400ft |
| TC2 | Detect User location. |
| TC3 | AL JABER, NID NO-01234556666, HAKIM, JORINA |
| TC4 | NUR MONJIL, HN-1234,4,6, PICTURE |
| TC5 | Try to remove ads. |
| TC6 | Try to edit or update existing ads. |
| TC7 | Try to access all ads. |
| TC8 | Try to communicate with landlords |
| TC9 | Boosting an ad |
| TC10 | Store tenant’s information |