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| Use Case ID: | HDB.001 | | |
| Use Case Name: | Register Account | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Normal User/Realtor |
| Description: | Create account that identify user type |
| Preconditions: | 1. User has a valid email account |
| Postconditions: | 1.User registers a user account |
| Priority: | Essential |
| Frequency of Use: | Low |
| Flow of Events: | 1. User clicks on the 'sign-up' 2. User selects if he wants to sign up for a Realtor account or a Normal User account 3. If user chose to sign up for a realtor account in step 2, User is shown a sign-up form where he must fill in his: 3.1 NRIC number 3.2 Full name 3.3 Contact number 3.3 Username 3.4 Password 3.5 Email 4. If user chose to sign up for a Normal user account in step 2, User is shown a sign-up form where he must fill in his: 4.1 Username 4.2 Password 4.3 Email Alternatively, user can sign up as Normal User through Facebook Login, where he must fill in his: 4.1.1 Username 4.1.2 Password 4.1.3 Email 5. System sends a validation key within a url link to the user's email address 6. Using the url link, user verifies his account with the validation key 7. User Account is now logged in and registered |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: |  |
| Special Requirements: |  |
| Assumptions: | User has a valid email account |
| Notes and Issues: |  |

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| **Name** | | **Date** | **Reason For Changes** | | | **Version** | |
| Sing Swee Yang | | 20/02/2016 | Created | | | 1.1 | |
| Use Case ID: | HDB.002 | | | | | |
| Use Case Name: | Add to Watchlist | | | | | |
| Created By: | Sing Swee Yang | | | Last Updated By: | Sing Swee Yang | |
| Date Created: | 20/02/2016 | | | Date Last Updated: | 20/02/2016 | |

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| Actor: | Normal User | |
| Description: | Add apartment to Watchlist | |
| Preconditions: |  | |
| Postconditions: |  | |
| Priority: | Essential | |
| Frequency of Use: | Medium | |
| Flow of Events: | Actor steps  1. User selects from listed suggestions and selects one or more apartments using a checkbox.   1. 2.User selects "Add to Watchlist". | 1. System steps      3.All selected apartments are added to user's "Favorite" apartments. |
| Alternative Flows: |  | |
| Exceptions: |  | |
| Includes: | Search Apartment Listing | |
| Special Requirements: |  | |
| Assumptions: |  | |
| Notes and Issues: |  | |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |
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| Use Case ID: | HDB.003 | | |
| Use Case Name: | Search Apartment Listing | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Normal User | |
| Description: | Search Apartment Listings with a search term | |
| Preconditions: | 1.User has relevant search term for an apartment | |
| Postconditions: |  | |
| Priority: | Essential | |
| Frequency of Use: | High | |
| Flow of Events: | Actor steps  1. User enter search term into the search bar and selects "Search Apartment" | 1. System steps     2. App suggests apartments based on user input sorted according to relevance |
| Alternative Flows: |  | |
| Exceptions: | **No results found** User entered invalid search term, The system must display an error message and prompt user to enter another search term | |
| Includes: |  | |
| Special Requirements: |  | |
| Assumptions: |  | |
| Notes and Issues: |  | |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |
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| Use Case ID: | HDB.004 | | |
| Use Case Name: | Search Realtor | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Normal User | |
| Description: | Search Realtor with a search term | |
| Preconditions: | 1.User has relevant search term for an realtor | |
| Postconditions: |  | |
| Priority: | Essential | |
| Frequency of Use: | High | |
| Flow of Events: | Actor steps  1. User enter search term into the search bar and selects "Search Realtor" | 1. System steps     2. App suggests realtors based on user input sorted according to relevance |
| Alternative Flows: |  | |
| Exceptions: | **No results found** User entered invalid search term, The system must display an error message and prompt user to enter another search term | |
| Includes: |  | |
| Special Requirements: |  | |
| Assumptions: |  | |
| Notes and Issues: |  | |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |
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| Use Case ID: | HDB.005 | | |
| Use Case Name: | Compare Listings | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Normal User | |
| Description: | Compare Apartment Listing with select criteria | |
| Preconditions: | 1.User has at least one apartment added to watchlist | |
| Postconditions: |  | |
| Priority: | Conditional | |
| Frequency of Use: | Medium | |
| Flow of Events: | Actor steps 1.From user's watchlist,, a checkbox is provided beside each apartment  2.User choose 1 to 3 apartments using the checkbox provided  3.User selects "COMPARE"   1. 6. User select one or more optional criteria and selects "COMPARE" | 1. System steps        4.System displays default criteria of the comparison group in a table. The default criteria are price, room type and unit number.  5. System displays a list of optional criteria to add (MRT STATION, BUS STATION, SCHOOL, SHOPPING MALL, LEASE COMMENCEMENT DATE) to the comparison group with a checkbox for each criteria.   7. System displays new comparison table with selected optional criteria |
| Alternative Flows: |  | |
| Exceptions: |  | |
| Includes: | Login | |
| Special Requirements: |  | |
| Assumptions: |  | |
| Notes and Issues: |  | |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |
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| Use Case ID: | HDB.006 | | |
| Use Case Name: | Rate Realtor | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Normal User |
| Description: | Rate realtor with an approval rating(positive/negative) and comment |
| Preconditions: | 1.User is logged in to a normal user account |
| Postconditions: |  |
| Priority: | Conditional |
| Frequency of Use: | Medium |
| Flow of Events: | 1..From realtor's profile page, user select "RATE REALTOR"  2.User enters a text comment of at least 100 characters and an approval rating (postive/negative)  3.User selects "SUBMIT" to submit review |
| Alternative Flows: |  |
| Exceptions: | **Incomplete Review** User entered less than 100 characters in textbox OR user did not select approval rating. The system must display an error message and prompt user to complete incomplete field |
| Includes: | View Realtor Profile, Search Realtor |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |
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| Use Case ID: | HDB.007 | | |
| Use Case Name: | Post Listing | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Realtor |
| Description: | Post a apartment listing as realtor |
| Preconditions: | 1.Realtor is logged in to a realtor account 2.Realtor has an apartment to list with a valid address and unit number |
| Postconditions: |  |
| Priority: | Essential |
| Frequency of Use: | Medium |
| Flow of Events: | 1. Realtor select "POST APARTMENT LISTING" 2.Realtor is given a fill-in form where he must fill in:  2.1 Address of Apartment  2.2 Postal Code  2.3 Unit Number of Apartment  2.4 Asking Price of Apartment   2.5 Room type of Apartment  2.6 Description of Apartment not exceeding 500 words 3. System checks that address, postal code and unit number are valid  4. System displays a preview of apartment listing  5. Realtors confirms that detail of apartment are correct by selecting "CONFIRM"  6. Apartment Listing is published |
| Alternative Flows: |  |
| Exceptions: | **Incomplete Form** Realtor did not fill in all the required fields. The system must display an error message and prompt user to complete incomplete field **Invalid Postal Code/Address** Realtor entered invalid postal code/address. The system must display an error message and prompt realtor to enter a different postal code/ address |
| Includes: | Login |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| **Name** | | **Date** | **Reason For Changes** | | | **Version** | |
| Sing Swee Yang | | 20/02/2016 | Created | | | 1.1 | |
| Use Case ID: | HDB.008 | | | | | |
| Use Case Name: | Update Listing | | | | | |
| Created By: | Sing Swee Yang | | | Last Updated By: | Sing Swee Yang | |
| Date Created: | 20/02/2016 | | | Date Last Updated: | 20/02/2016 | |

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| Actor: | Realtor |
| Description: | Update a posted apartment listing as realtor |
| Preconditions: | 1.Realtor is logged in to a realtor account 2.Realtor has at least one apartment listing posted |
| Postconditions: |  |
| Priority: | Essential |
| Frequency of Use: | Medium |
| Flow of Events: | 1. Realtor select "MY APARTMENT LISTINGS"  2. System displays list of apartment that realtor has posted  3. Realtor selects apartment that he wants to update and selects "UPDATE" beside the apartment 4.Realtor is given a fill-in form where he can update the:  4.1 Address of Apartment  4.2 Postal Code  4.3 Unit Number of Apartment  4.4 Asking Price of Apartment   4.5 Room type of Apartment  4.6 Description of Apartment not exceeding 500 words 5. System checks that updated address, postal code and unit number are valid  6. System displays a preview of new apartment listing  7. Realtors confirms that detail of apartment are correct by selecting "CONFIRM"  8. Updated Apartment Listing is published |
| Alternative Flows: |  |
| Exceptions: | **Incomplete Form** Realtor did not fill in all the required fields. The system must display an error message and prompt user to complete incomplete field **Invalid Postal Code/Address** Realtor entered invalid postal code/address. The system must display an error message and prompt realtor to enter a different postal code/ address |
| Includes: | Login |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |

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| Use Case ID: | HDB.009 | | |
| Use Case Name: | Delete Listing | | |
| Created By: | Sing Swee Yang | Last Updated By: | Sing Swee Yang |
| Date Created: | 20/02/2016 | Date Last Updated: | 20/02/2016 |

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| Actor: | Realtor |
| Description: | Delete a posted apartment listing as realtor |
| Preconditions: | 1.Realtor is logged in to a realtor account 2.Realtor has at least one apartment listing posted |
| Postconditions: |  |
| Priority: | Essential |
| Frequency of Use: | Medium |
| Flow of Events: | 1. Realtor select "MY APARTMENT LISTINGS"  2. System displays list of apartment that realtor has posted  3. Realtor selects apartment that he wants to delete and selects "DELETE" beside the apartment 4. System displays confirmation message asking realtor to confirm that he wants to delete selected apartment listing with "CONFIRM" and "BACK" options  5. Realtor selects "CONFIRM"  6. Apartment listing is deleted |
| Alternative Flows: |  |
| Exceptions: |  |
| Includes: | Login |
| Special Requirements: |  |
| Assumptions: |  |
| Notes and Issues: |  |

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| Sing Swee Yang | 20/02/2016 | Created | 1.1 |