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| **Use Case ID:** | **1** | | |
| **Use Case Name:** | **Logging in** | | |
| **Created By:** | **Tan Yi Cheng** | **Last Updated By:** | **Keerthan Arularasan** |
| **Date Created:** | **20/3/2020** | **Date Last Updated:** | **20/3/2020** |

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| **Actor:** | System |
| **Description:** | Logging into account by authentication of username and password |
| **Preconditions:** | 1. User account must exist in firebase DB  2. Device must be connected to internet via Wifi or mobile data |
| **Postconditions:** | 1.User is able to access his account |
| **Priority:** | Medium |
| **Frequency of Use:** | 1-3 times per month |
| **Flow of Events:** | 1. User tap login via username.  2. Users enter their credentials in the login interface.  3. User selects the login button.  4. System validates the account by checking the user’s credentials with the database.  5. System authenticates the user to login successfully. |
| **Alternative Flows:** | AF-S1: User selects Register for account  1. User inputs desired credentials  2. System saves account credentials in database  3. Return to step 5  AF-S3: System detects empty username or password fields.  1. System displays error message “Username or password fields cannot be empty.”  2. User fills up the required field(s) for username and password.  3. User selects the login button to re-attempt login again.  4. Return to Step 2.  AF-S4: User enters the wrong credentials  1. System displays error message “Invalid username or password. Please re-enter.”  2. Return to Step 2. |
| **Exceptions:** | EX-AF-S1: User not logged in to their Facebook account.  1. System will prompt the user to enter their credentials to login to their Facebook account. |
| **Includes:** | 1.Validate the account availability |
| **Special Requirements:** | **-** |
| **Assumptions:** | Database refers to firebase DB. |
| **Notes and Issues:** | **-** |

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| **Use Case ID**: | 2 | | |
| **Use Case Name**: | Searching for HDBs | | |
| **Created By**: | Kunyoung | **Last Updated By**: | Sherwinna |
| **Date Created**: | 20/3/2020 | **Date Last Updated**: | 20/3/2020 |

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| **Actor**: | System |
| **Description**: | Search for HDBs based on the filtered criteria and display |
| **Preconditions**: | 1. User must be connected to the internet |
| **Postconditions**: | 1. The details of the selected HDB must be displayed |
| **Priority**: | High |
| **Frequency of Use**: | 1 - 10 times a day |
| **Flow of Events**: | 1. User starts the application and views the main menu. 2. User types in the desired area or region of HDB in the search bar 3. System provides autocomplete suggestions based on what the user has typed. 4. User accepts the suggestion and initiates the search 5. System lists out all relevant HDBs based on the user’s given criteria. 6. System lists the respective HDBs depending on user choice 7. User selects one of the HDBs to view its detailed information. 8. System will fetch the relevant data pertaining to the selected HDB and display it. |
| **Alternative Flows**: | AF-S3:   1. User rejects autocomplete suggestions and types his own input 2. System returns to Step 5   AF-S4:   1. User filters search based on price range and housing type. 2. System returns to Step 3. |
| **Exceptions**: | EX5:   1. System is unable to find any HDBs with the user’s criteria. 2. System will display an error message. 3. System will return back to Step 2. |
| **Includes**: |  |
| **Special Requirements**: |  |
| **Assumptions**: |  |
| **Notes and Issues**: |  |