
Use Cases

for

House Buying Guide

Version 2.0 approved

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Meatballs

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Revision History

Name	Date	Reason For Changes	Version
Duan Kai	110820	Reducing number of use cases	2.0

Use Case ID:	1		
Use Case Name:	Search historical data		
Created By:	Duan Kai	Last Updated By:	Duan Kai
Date Created:	28082020	Date Last Updated:	10092020

Actor:	User
Description:	Retrieve resale/private sale data according to user input parameters (location, property type, floor level, tenure, land area, price range (total), and price range (\$psm), sale type, project name), with parameters displayed according to user's intended purpose
Preconditions:	User inputs at least one search parameter among the six
Postconditions:	<ol style="list-style-type: none"> 1. System displays private houses sold according to search parameters 2. System displays average price of houses 3. System displays quarterly moving average price of houses sold over a three year period if price range is not input by user
Priority:	Highest
Frequency of Use:	1000 times a week
Flow of Events:	<ol style="list-style-type: none"> 1. User selects option to <i>search historical data</i>, and may select to search as a buyer or seller 2. If buyer is selected, System displays parameters of location, property type, sale type, land area, floor range and price range(total). 3. If seller is selected, System displays parameters of location, property type, project name, land area, floor range and tenure. 4. System requests the input of at least one parameter to filter historical data 5. User enters at least one search parameter to filter historical data 6. System searches through the Server database for historical data matching input criteria 7. If price range is not given as input criteria, system calculates average price of all houses matching search criteria and displays it to User 8. If price range is not given as input criteria, system displays a quarterly moving average graph price graph of houses that match the search criteria over the last three years to User 9. System displays search results to User in order of closest match to search criteria, with the closest match highlighted
Alternative Flows:	1.AC.S4: If System cannot find search criteria selected in database <ol style="list-style-type: none"> 1. System prompts user with an error message, and prompts user to enter another set of parameters 2. System returns to step 2
Exceptions:	1.EX.S4: If Server database is inaccessible or empty <ol style="list-style-type: none"> 1. System prompts user with an error message "server offline" 2. System returns User to the homepage
Includes:	

Special Requirements:	1. User may further filter search results by refining previous search criteria through returning to step 2/3 from step 8
Assumptions:	User uses English
Notes and Issues:	N.A.

Use Case ID:	2		
Use Case Name:	Request financing guide		
Created By:	Corliss	Last Updated By:	Duan Kai
Date Created:	28082020	Date Last Updated:	10092020

Actor:	User
Description:	System suggests a financing plan based on user input parameters (price of housing, current available funds (downpayment), desired monthly repayment, desired repayment duration)
Preconditions:	N.A.
Postconditions:	1. System financial guide according to parameters
Priority:	Medium
Frequency of Use:	500 times a week
Flow of Events:	<ol style="list-style-type: none"> 1. User selects option to <i>request financing guide</i> 2. System requests users to fill in a form on personal details 3. User inputs information of residency, monthly fixed income, monthly variable income, cash towards down payment, CPF ordinary account, property type, repayment duration. 4. System calculates and displays to User the maximum affordable house price.
Alternative Flows:	2.AC.S3: User does not enter all information <ol style="list-style-type: none"> 1. System prompts user with error message “insufficient information for calculation” 2. System returns to step 3
Exceptions:	2.EX.S4: If Server database is inaccessible or empty <ol style="list-style-type: none"> 1. System displays error message “server offline” 2. System returns User to the homepage
Includes:	
Special Requirements:	N.A.
Assumptions:	User uses English
Notes and Issues:	N.A.