

Use Case ID:	4		
Use Case Name:	Display Interactive Housing Prices Map		
Created By:	Augustine	Last Updated By:	Augustine
Date Created:	28/1/2023	Date Last Updated:	29/1/2023

Actor:	Google Maps API,
Description:	The platform should display an interactive map with pins to indicate past transactions details. Use case is triggered by a system event where a 'Get Price' form is submitted.
Preconditions:	There is a valid housing area or postal code being sent to the Google Maps API.
Postconditions:	An interactive map, with ability to scroll and move, is generated with pins dropped on it
Priority:	Very High
Frequency of Use:	1 (per form submitted)
Flow of Events:	<ol style="list-style-type: none"> <li>1. Submission of 'Get Price' form triggers backend API (part of system).</li> <li>2. Backend API take the area/ postal code and convert it to latitude and longitude</li> <li>3. Backend API query against the database and checks if there are data points within 2km radius to it.</li> <li>4. If there is, set map's zoom level to be 2km radius of provided housing estate.</li> <li>5. Send area/ postal code to Google Maps API so map can be centered at the area/ postal code</li> <li>6. Display map with pins drop to indicate past transactions</li> <li>7. Utilise 'View House Details' use case when pin is selected</li> </ol>
Alternative Flows:	AF1: No data points within 2km radius 1. Set map's zoom level to be 5km radius
Exceptions:	E1: Google Maps API is down Display "Interaction with Google Maps failed. Please try again later"  E2: Backend API call returns error, Display "Internal Server Error. Please try again later"
Includes:	Query for data points in database
Special Requirements:	-
Assumptions:	Area/ postal code is valid
Notes and Issues:	-