# CANADIAN REAL ESTATE REPORT

## Data Visualization Project

### Group 2

Purnima Chandel
Joao Pinto
Mariaveronica Sayewich
Wenjie Shao
Tigran Zohrabyan

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## Executive Summary

We all know that the Toronto market is hot right now. Prices are on the rise, and residences are being built on any available property. BUT – how do we know where the *next city center* is being built. Is it even in Ontario? This is what our group will discover.

### PROJECT REQUIREMENTS AND RESOURCES

1. Your visualization must include a Python Flask powered RESTful API, HTML/CSS, JavaScript, and at least one database (MySQL, MongoDB, PostgreSQL)
   a. We will be using The Canadian Real Estate Association's Housing Price Index Tool for our data on Canadian property sales
   b. We will be incorporating this large-scale dataset into MySQL to generate a database
2. Your visualizations must be interactive, with users clicking/hovering/various events to change the dataset. Your project must include some level of user-driven interaction (e.g. menus, dropdowns, textboxes, etc.)
   a. We will be using HTML, CSS, and JavaScript to visually iterate our findings
3. Your project must be powered by a dataset with at least 100 records.
   a. The HPI tool guarantees more than 100 records
4. Your final visualization should ideally include at least three views.
   a. We will show a map of Canada with geotags on each major city center that we have data for
   b. We will show trends between average prices and years per city
   c. We will compare property dwellings in Canada

PROJECT BREAKDOWN

1. Building our database
    a. Purnima will populate our MySQL database with information from the HPI Tool
2. Building our website
    a. Mariaveronica will build a web frame to demonstrate our findings to the public
        i. Modal
        ii. Dropdowns
        iii. Mouseovers
    b. Wenjie will prepare and test our Flask deployment
    c. This will be done using HTML, CSS and Flask
3. Building our visualizations
    a. Tigran built the first visualization with the map of Canada using JavaScript and Leaflet
    b. JP built the visualization demonstrating average prices and years per city using JavaScript and D3
    c. Purnima and Wenjie built the visualization that compares property dwellings in Canada using ???