



CANADIAN REAL ESTATE REPORT

Data Visualization Project

Group 2

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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
 - b. Wenjie will prepare and test our Flask deployment
 - c. This will be done using HTML, CSS and Flask
3. Building our visualizations
 - a. We, as a team, will build out our visual to demonstrate our findings using JavaScript, Plotly and/or Leaflet and will ensure that these visualizations are interactive, so that our audience can gather as much intel from our work as possible