

INFO-5101 Project 1 – UI Examples

Console UI Example

```
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Program functionality  
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```

```
- To exit program, enter `exit` at any prompt.  
- To start program from the beginning enter 'restart' at any prompt  
- You will be presented with a numbered list of options. Please enter a value, when prompted,  
to a corresponding file name, file type or data querying routine.  
Fetching list of available file names to be processed and queried...
```

- 1) canadiancities-CSV
- 2) canadiancities-JSON
- 3) canadiancities-XML

```
Select an option from the list above (e.g. 1, 2):
```

```
A city catalogue has now been populated from the canadiancities-JSON.json file.
```

```
Fetching list of available data querying routines that can be run on the canadiancities-JSON.json file.
```

- 1) Display City Information
- 2) Display Province Cities
- 3) Calculate Province Population
- 4) Match Cities Population
- 5) Distance Between Cities
- 6) Restart Program And Choose Another File Or File Type To Query

```
Select a data query routine from the list above for the canadiancities-JSON.json file (e.g. 1, 2):
```

```
Enter two city names, separated by a comma, to see which city has the larger population (eg. London, Toronto): London,  
oronto
```

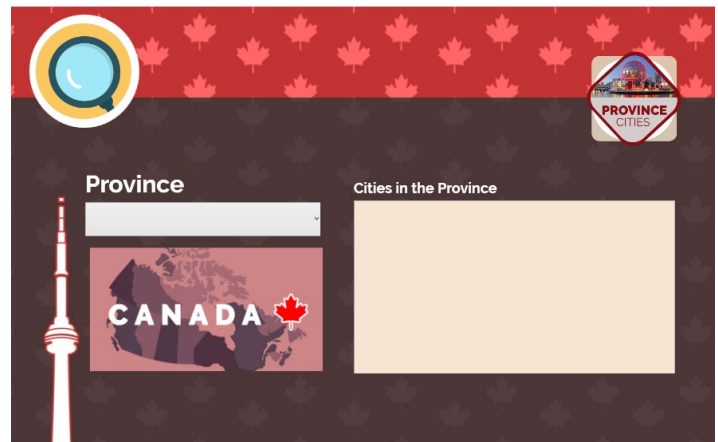
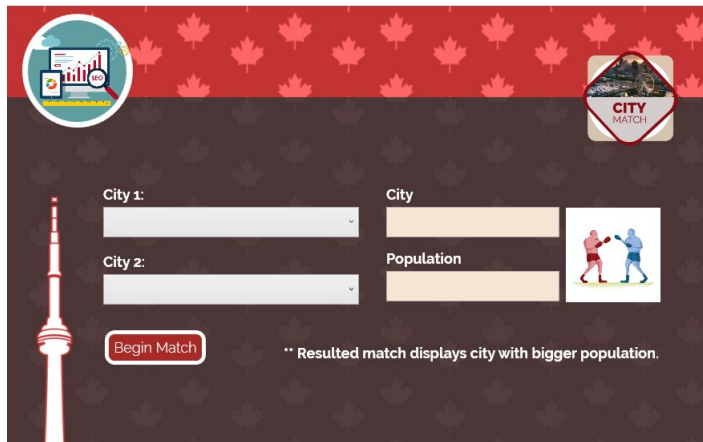
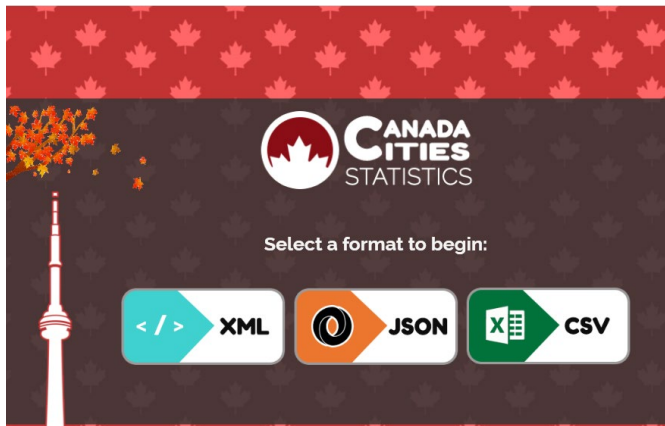
```
Toronto has a larger population than London with a population of 5,213,000 people.
```

- 1) Display City Information
- 2) Display Province Cities
- 3) Calculate Province Population
- 4) Match Cities Population
- 5) Distance Between Cities
- 6) Restart Program And Choose Another File Or File Type To Query

```
Select a data query routine from the list above for the canadiancities-JSON.json file (e.g. 1, 2):
```

Most students will probably want to implement a console-based UI for the project. However, you certainly may create a GUI if you wish. The following page provides a couple of examples for your consideration.

GUI Example 1



GUI Example 2

