**To use the demo, you will need to run it on your local server, then go to localhost/burlington/index.html**

The UI design I went with looks similar to ones you’d find for webstores, with the search page showing the search bar at the top, the assorted filters on the left, and the results as table rows or a list of elements in a larger container on the right.

Since there would be two types of data, I would also have two radio buttons below the search bar so the user could select which type of data they want to search for (not shown in the proof of concept). Alternatively, there could be two tabs for the user to switch between.

Here are the broken down tasks I went through to create the demo:

* Created the layout I wanted with HTML and Materialize CSS
  + Search bar
  + Filter sidebar
    - RESET FILTERS BUTTON (not shown in demo)
  + Results container
* Use AJAX to GET data as JSON
  + For the final version, I would use PHP or Python to get data from a MySQL table and then retrieve it in the JS as JSON
* Populate filter options by looping through JSON data
* Initialize the results table with the data
* Create search/filter functions
  + On keydown for search input
  + On change for each filter
* Loop through filter parameters and create new Array of data that fits those parameters
* Replace results HTML using new Array of filtered data
* Create a sort function so user can sort the data either alphabetically or by date (not shown in demo).