**Project 3: Proposal Outline**

## Group Members

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**Requirements**

* Python Flask [API, HTML/CSS, JS]
* 1 DB [SQL, MONGO DB]
* Web scraping and leaflet or plot.ly
* Dashboard page with multiple charts
* JS library & powered by a data set of 100 records.
* user driven interaction [menus, dropdowns, textboxes]
* visualization include 3 views.

**Brainstorm**

**Selecting Topic:**

* Bike Share program in Toronto, Vancouver, Boston, NYC in 2019

**Finding Data Set:**

* *Toronto*
  + <https://ckan0.cf.opendata.inter.prod-toronto.ca/download_resource/e69c5761-e0ed-4999-9426-8174f848b11a>
  + <https://toronto-us.publicbikesystem.net/ube/gbfs/v1/en/station_information>
  + <https://www.worldweatheronline.com/toronto-weather-history/ontario/ca.aspx>
  + <https://bikesharetoronto.com/pricing/>
* *Vancouver*
  + <https://www.mobibikes.ca/en/system-data>
  + <https://vancouver-gbfs.smoove.pro/gbfs/en/station_information.json>
  + <https://www.worldweatheronline.com/vancouver-weather-history/british-columbia/ca.aspx>
  + <https://www.mobibikes.ca/en/offers-subscription>
* *Boston*
  + <https://www.bluebikes.com/system-data>
  + <https://gbfs.bluebikes.com/gbfs/en/station_information.json>
  + <https://www.worldweatheronline.com/boston-weather/massachusetts/us.aspx>
  + <https://www.bluebikes.com/pricing>
* *New York*
  + <https://www.citibikenyc.com/system-data>
  + <https://gbfs.citibikenyc.com/gbfs/en/station_information.json>
  + <https://www.worldweatheronline.com/new-york-weather/new-york/us.aspx>
  + <https://www.citibikenyc.com/pricing>

**Sketching your ideal visuals**

* Leaflet & Markers [leaflet]
* Bubble Chart [plot.ly]
* Pie Charts [D3]
* Visualize pricing index [plot.ly -> table]

**Proposal**

* Brief articulation of chosen topic and rationale
  + Look at seven main aspects regarding location, member type, pricing, station, bike, historical weather, and ridership information.
* A link to your data set(s) and a screenshot of the metadata
* 3 or 4 screenshots of relevant, “inspiring” visualization that frame your creative fodder.
* A sketch of the final design
* A link to the primary GitHub repo you will be housing your work in
  + <https://github.com/myfanwybr/project3>