**Project 1: Proposal Outline**

## Group Members

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**Topic:** Bikeshare program

**Data sources we will be working with (identify the data source):**

* Toronto 2019 - <https://ckan0.cf.opendata.inter.prod-toronto.ca/download_resource/e69c5761-e0ed-4999-9426-8174f848b11a>
* Vancouver 2019 - https://www.mobibikes.ca/en/system-data

**Dataset Summary (What are we targeting for with this Dataset?)**

With this dataset, we are aiming to look at if the bike share program is a necessity that can be implemented in other cities. By analysing patterns of ridership usage, it allows us to interpret the data. Which, in return, suggests a better comprehension of the trends concerning the Bike Share program. We aim to look at factors such as trip start time, trip end time, trip duration, trip start station, trip end station, and user type between the cities Toronto and Vancouver in 2019. An analysis of the effectiveness and efficiency of the bike share program in Toronto and Vancouver will onset the decision to implement this program in other cities as an eco and user-friendly program promoting health, eco-friendly transportation and tourism.

**Questions to ask the Data:**

1. How many individuals use the Bikeshare program? What is the total number of trips taken within the year 2019?
2. In which season is the bike share usage most popular?
3. What are the users' primary motive for use of Bikeshare? What is the most popular station? From the placement of the station, can you determine the purpose of use for the bike (i.e. commuter, leisure, recreational)?
4. Do individuals tend to stay within the basic 30-minute allotted time, given that usage fees apply after 30 minutes? What is the average trip duration? What is the average trip duration on a quarterly basis?
5. What is the peak time of use for Bikeshare?
6. Which of these user types are more frequent users of the Bikeshare program? What percentage of the Bikeshare users are club members vs. public users?

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