Project Proposal

a. **Names**:
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b. **Project Topic**:
  - Determining factors that impact the usage of BikeShare in New York City.
c. **Project description or outline**:
  - By looking at both external factors such as time of year and station location along with internal factors such as demographics including age and gender, we will determine what impacts the usage of BikeShare in New York City.
d. **Research questions**:
  - How many individuals use the bikeshare program?
    a. Rider's age + gender (Ride Count by Birth Year + gender)
  - In which season is the bike share usage most popular?
  - What is the peak time of use during a day for Bikeshare?
  - What percentage of the Bikeshare users are members vs. public users?
    a. Trip Duration by User Type
  - What is the most popular station?
    a. Top 5 stations with the most starts (showing # of starts)) / most popular trips
e. **Datasets links**:
  - Citibike data (Jan-Sep 2020)
    1. https://s3.amazonaws.com/tripdata/index.html
  - Below two files are the ones we are going to use:
    1. JC-202001-citibike-tripdata.csv.zip
    2. JC-202002-citibike-tripdata.csv.zip
    3. JC-202003-citibike-tripdata.csv.zip
    4. JC-202004-citibike-tripdata.csv.zip
    5. JC-202005-citibike-tripdata.csv.zip
    6. JC-202006-citibike-tripdata.csv.zip
    7. JC-202007-citibike-tripdata.csv.zip
    8. JC-202008-citibike-tripdata.csv.zip
    9. JC-202009-citibike-tripdata.csv.zip
f. **Storylines/Conclusion**
  - With this dataset, we are aiming to look at if the bike share program is a necessity that can be implemented during different seasons. 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 .