**Project Proposal**

Team :D

**Project Intention:** To create an interactive dashboard for stock data exploration. User will be able to explore how interest rate and earning call affect the stock price as well as trading volume.

**Data source:** QUANDL API for stock data and csv database for interest rate.

**Target result:**

To analyze how particular events (e.g. increase of interest rate, earning calls) affect individual stock.

An interactive dashboard which is able to take in user input of stock ticker and the choice of interested time frame will be delivered. Upon user input of the stock ticker, the dashboard will plot the stock price, and volume versus interest rate and earning call date. The user then can choose the time frame on the chart, or play with the draggable x-axis of the plot.

**Detailed plan:**

Use event listener to take in user input of stock name and selected event.

Stock data will be pulled from QUANDL, plotted, and post by flask /data/ route.

Event data will be pulled from database, plotted, and post by flask as well.

The flask will also post the html home page for the dashboard.