**Final Project Proposal:**

**Project team:**

1. Loic Tiemani
2. Hazim Hamadneh
3. Ahmad Abo Alafa
4. Hamid Zarringhalam

This Project aims to use machine learning and quantitative analysis to help predict stock price movement based on historical data. It is expected that we obtain coefficient of correlation between stocks of a specific sector.

# Tasks:

The tasks for this project includes:

1. Use Heroku and Flask to present the data
2. Create a front-end interface that maps an API to collect, train and test the model
3. Exploring Rolling mean and rate of return of stocks
4. Determine risk and return
5. Analyses of competitors stocks
6. Use SK learn to develop model and train/test the data
7. Using js, d3 and plotly/Leaflet to visualize the data as required

Limitations

* Doesn’t include economic qualitative factors such as news (news sourcing and sentimental analysis, earnings)
* Doesn’t include political factors

Chart, line chart

Description automatically generated