

FE520 Proposal

Group 3

Team member :

Zheng Li, Jianing Zhang, Wenxuan Wang

1. Topic (specify a problem you want to solve). You need to choose one topic from the Question List in the Modules.

Stock information web interface

2. Motivation and insights you expect from data analysis

We want to understand how the website is built and practice it.

From another aspect, we want to learn and try how to apply data analysis on the data we fetched to see the trend of stock prices and any other possible insight.

3. Related work (Reference and what you have done before)

We were learning how to build a web server through web-resources and doing pre-research on related areas we needed such as how to build frontend, backend. We also did some research on Mysql and tried to understand how to use it to store and fetch data.

4. Possible methodology if you have some idea (optional)

Use some stock indicators, such as RSI, KDG, and MACD, to provide users some information about buying or sell the stock.

5. Project plan: list the tasks you need to take to complete the project.

1. Set up environment (finished)
2. Build server backend and frontend(Apr 3 - Apr 15)
 - use flask to build the backend
 - use bootstrap as frontend framework
3. Fetch data by using Yahoo API and display the data (Apr 15 - Apr 25)
 - display real time price by choose a certain stock
 - display stock market trend in the past week
 - Select a certain stock and display the daily opening price, closing price, high price, low price, trading volume and fluctuations in the past week.
4. Design database(Apr 26 - May 1) Possibly do, if we have enough time
 - use mongodb to build our database
5. Design Backtest system.(Apr 26 - May 1) Possibly do, if we have enough time
6. Debug (May 1 - May 5)
7. Prepare for the presentation(May 3 - May 6).

Github Repo

https://github.com/Hughli3/FE520_FinalProject