# STOCK INFORMATION WEB INTERFACE

### **FE 520 Final Project**

Group 6: Gloria Rumao, Moksh Ajmera, Kinjal Shukla, Ruchi Pandey



```
from IPython.display import HTML
app = Flask(__name__)
                                 FASK
app.secret_key = '1234'
@app.route('/')
def home():
    return render_template('home.html')
@app.route('/data', methods = ['GET', 'POST'])
def data():
    if request.method == 'POST':
       Info = {}
        Info['stock_symbol'] = request.form['ticker']
        Info['start_date'] = request.form['startdate']
        Info['end_date'] = request.form['enddate']
```

 Flask is a Python framework for building lightweight and dynamic web applications.

# LIBRARIES USED

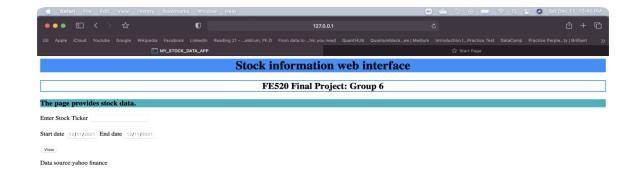
- Yfinance -> used to download yahoo finance data
- json -> convert strings to Python datatypes
- Numpy -> is a Python library used for working with arrays
- Pandas -> library used for real world stock data analysis and manipulation in python
- Render\_template -> library in flask to create html templates

```
1 Select * from appl_records;
```

# Store and

Notifications Data Output Messages Explain Query History

1	date date	aouble precision	aouble precision	low double precision	close double precision	adj_close double precision	volume bigint	ticker character varying (255)
1	2021-11-01	148.99000549316406	149.6999969482422	147.8000030517578	148.9600067138672	148.742919921875	74588300	AAPL
2	202107	1475 03662 293	1 1. 7000732421875	148.64999389648438	150.02000427246094	149.80137634277344	69122000	AAPL
3	2021-11-03	150.58979938504844	151.97000122070312	149.82000732421875	151.49000549316406	151.2692413330078	54511500	AAPL
4	2021-11-04	151.5800018310547	152.42999267578125	150.63999938964844	150.9600067138672	150.74000549316406	60394600	AAPL
5	2021-11-05	151.88999938964844	152.1999969482422	150.05999755859375	151.27999877929688	151.27999877929688	65414600	AAPL
6	2021-11-08	151.41000366210938	151.57000732421875	150.16000366210938	150.44000244140625	150.44000244140625	55020900	AAPL
7	2021-11-09	150.1999969482422	151.42999267578125	150.05999755859375	150.80999755859375	150.80999755859375	56787900	AAPL
8	2021-11-10	150.02000427246094	150.1300048828125	147.85000610351562	147.9199981689453	147.9199981689453	65187100	AAPL
9	2021-11-11	148.9600067138672	149.42999267578125	147.67999267578125	147.8699951171875	147.8699951171875	41000000	AAPL
10	2021-11-12	148.42999267578125	150.39999389648438	147.47999572753906	149.99000549316406	149.99000549316406	63632600	AAPL
11	2021-11-15	150.3699951171875	151.8800048828125	149.42999267578125	150	150	59222800	AAPL
12	2021-11-16	149.94000244140625	151.49000549316406	149.33999633789062	151	151	59256200	AAPL
13	2021-11-17	151	155	150.99000549316406	153.49000549316406	153.49000549316406	88807000	AAPL
14	2021-11-18	153.7100067138672	158.6699981689453	153.0500030517578	157.8699951171875	157.8699951171875	137827700	AAPL
15	2021-11-10	157 6/0003806/8/38	161 ᲘᲔᲘᲘᲘ४२७७४६Ი०४	156 52000977020699	160 5500030517579	160 5500030517578	117205600	AAPI



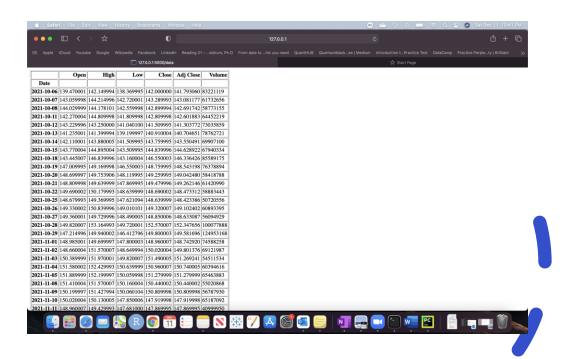


```
import psycopg2
import yfinance as yf
import numpy as np
from psycopg2.extensions import register_adapter, Asls

psycopg2.extensions.register_adapter(np.int64, psycopg2._psycopg.Asls)

ticker = 'AAPL'
stock_data = yf.download(ticker, start='2021-8-1', end="2021-9-1")
stock_data.index = np.datetime_as_string(stock_data.index, unit='D')
stock_data['Ticker'] = ticker
stock_data = stock_data.rename(columns={"Adj Close": "Adj_Close"})
records = stock_data.to_records(index=True)
```

## WEB PAGE



# Future work

- Use javascript to make the webpage more interactive
- Add a download button and plot function and multiple ticker option