

#### Introduction

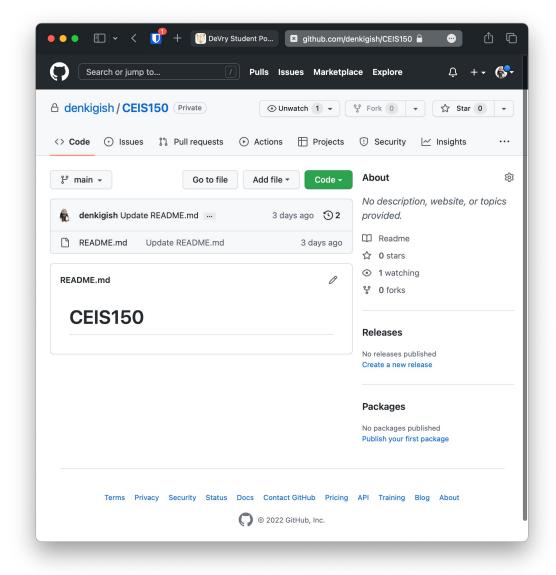
inStock is a simple stock tracking application. It is capable of importing historical stock information, from either Yahoo! Finance, via CSV or web scraping. This app is able to save your stock purchase history, and produce reports based on your purchase history.

#### Environment

This part of the project focus' on setting up the environment used to develop the stock tracking application.

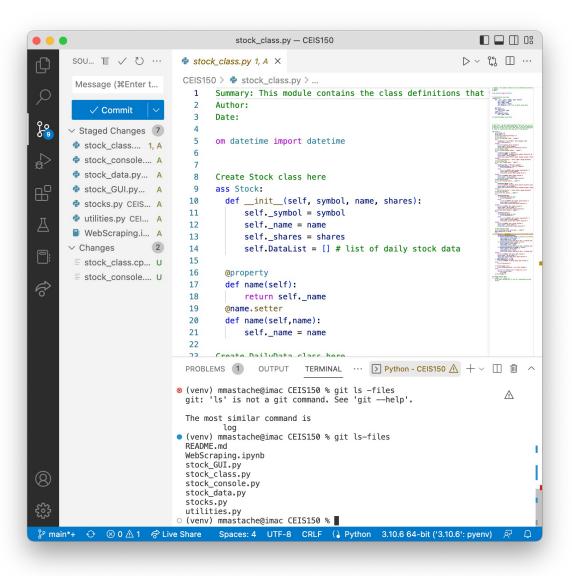
#### GitHub

- Screen shot of GitHub project repository.
- For this class, I setup a GitHub repository. It can be found at:
- https://github.com/denkigish



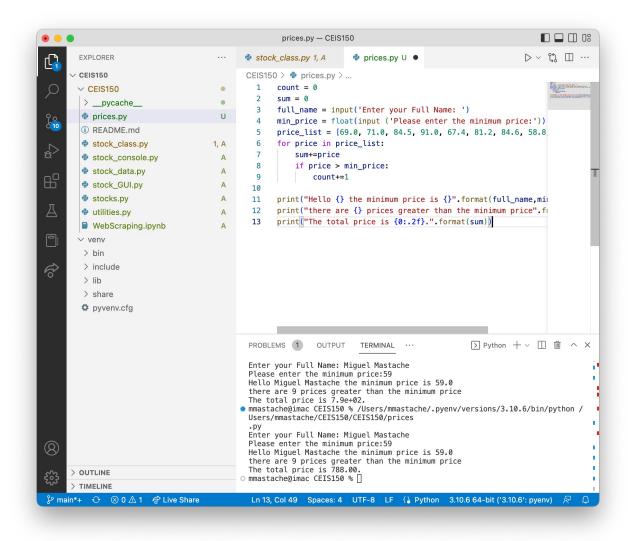
## IDE & Starter Files

- Screen shot of your IDE (Spyder or VS Code) with the project Starter Files loaded.
- Also chose to use the VS Code IDE for development of the project. Shown is VS Code with the starter files loaded.



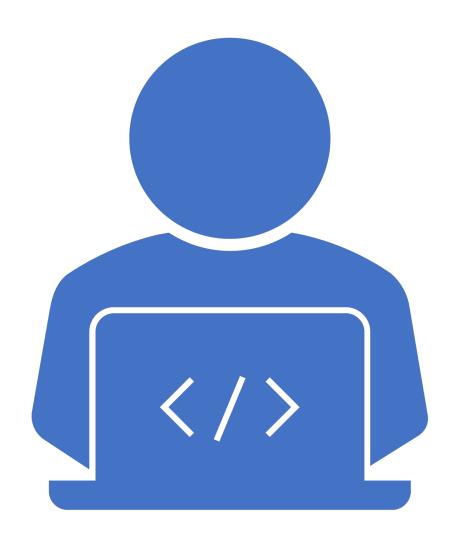
### Program

- Screen shot of Python program running successfully.
- prices.py working with price list, summing, and counting stocks above minimum price.



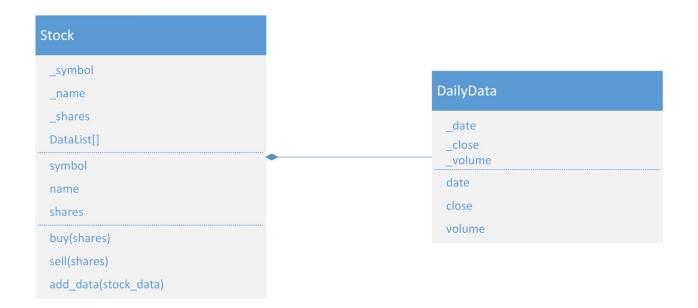
## UML and Class Definition

This section covers the development of the classes needed to work with our stock and history data. These classes are the foundation of my program.



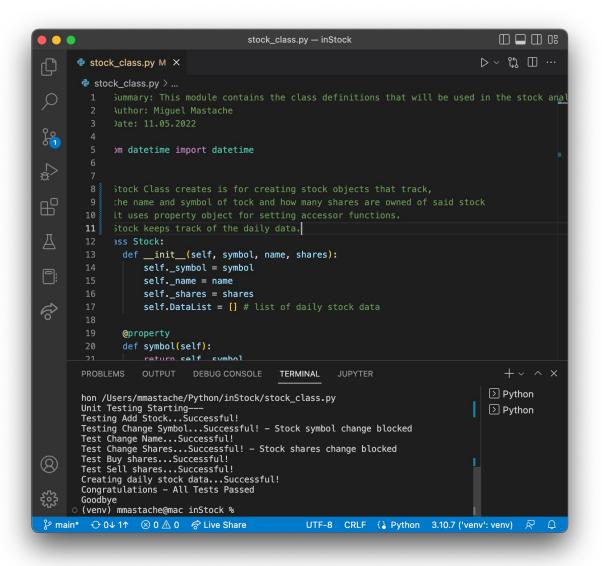
## Class Diagram

Paste your Visio Class
Diagram



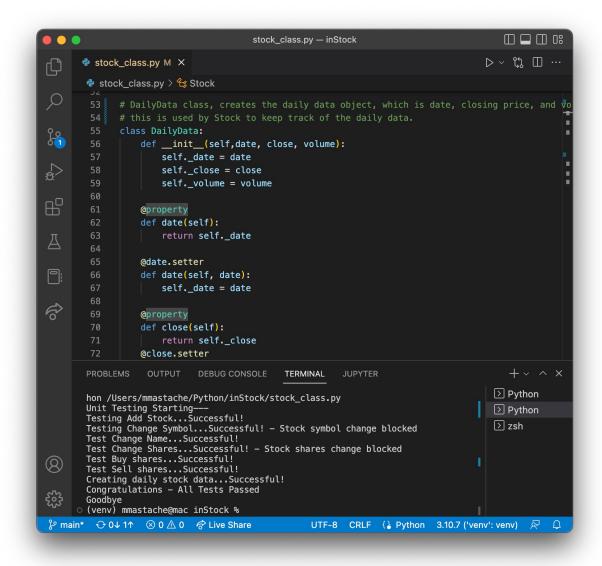
#### Class Code

 Screen Shot of your stock\_class.py file.



#### Unit Test

• Screen Shot of your successful unit test.

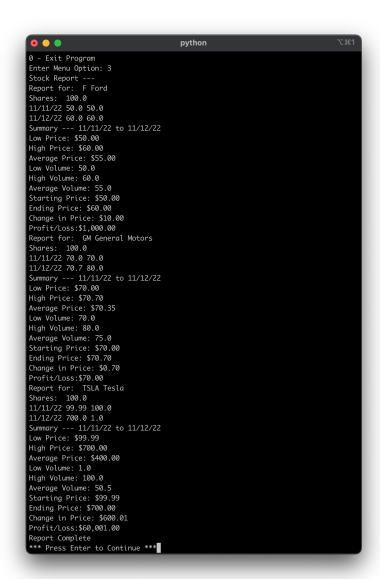


#### Console Interface

This section covers the creation of console-based interface for working with stocks and the stock price history. It develops the code for adding stock, and its daily data.

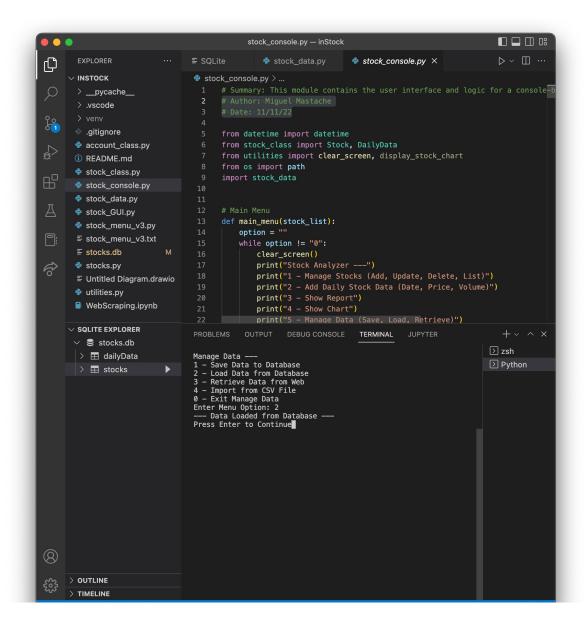
## Report

• Paste a screen shot of your working Stock Report.



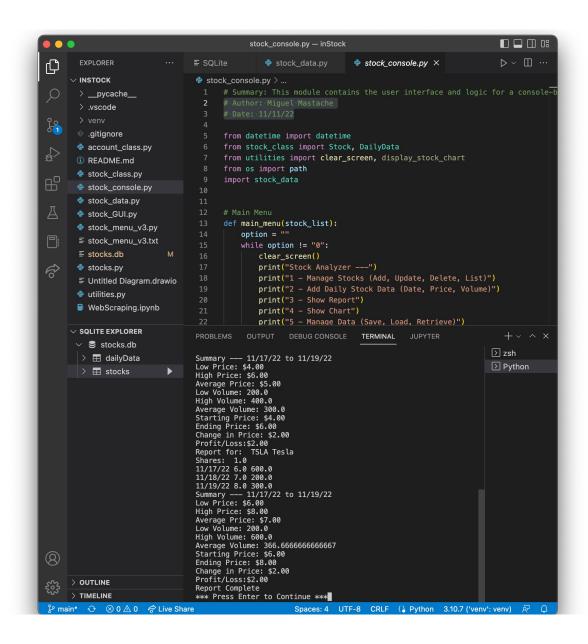
## Load Database

• Paste a screen shot of your Data Loaded from Database message.



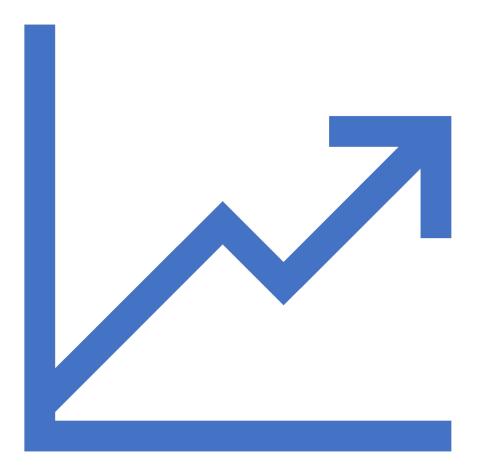
#### Report

 Paste a screen shot of your working Stock Report.



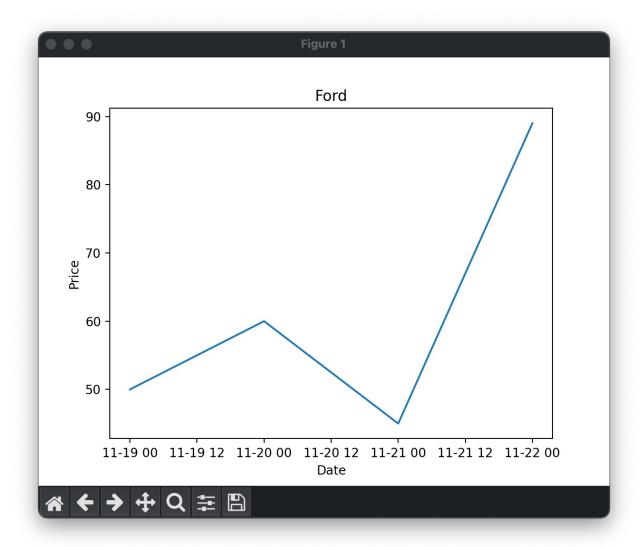
### Charts

In this section, we use the matplotlib library to display charts for the stock data.



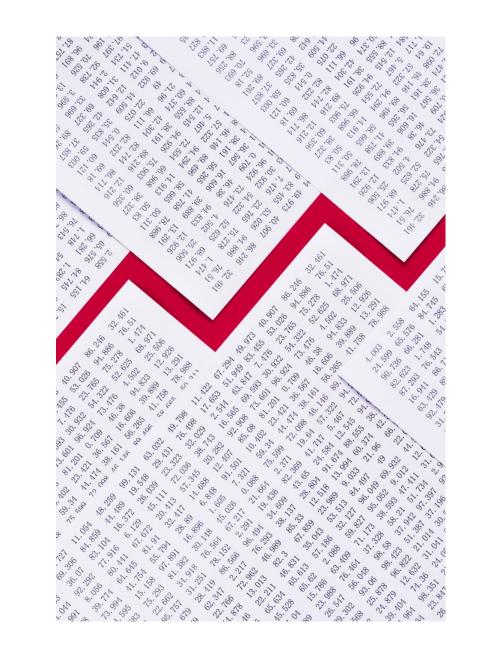
# Optional Chart

• Paste a screen shot of your stock chart.

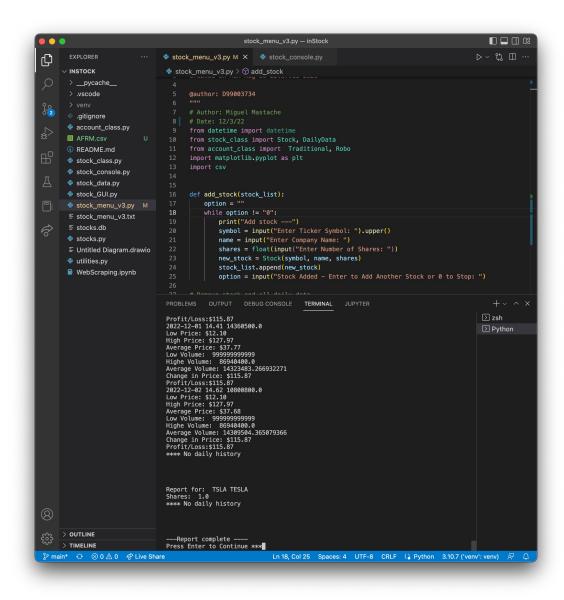


## File Processing

This section covers file processing, by developing file saving code, and importing of saved data in csv format.

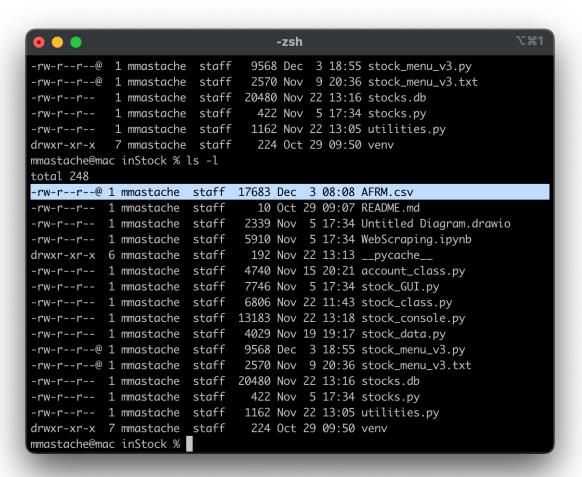


#### Code



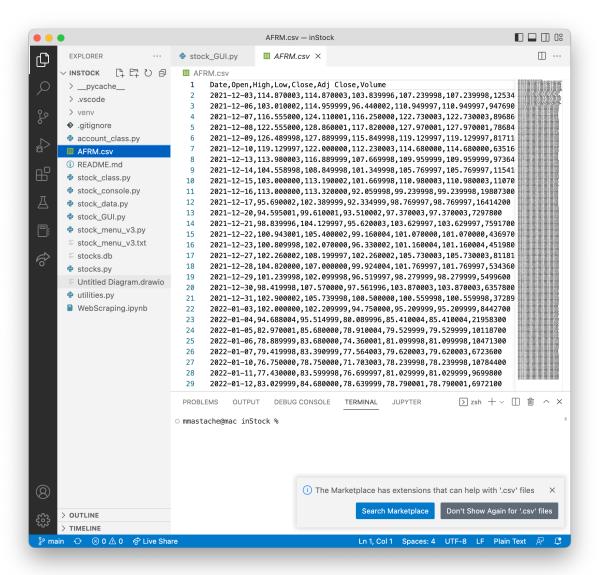
#### File

 Paste a screen shot of the file downloaded from Yahoo finance



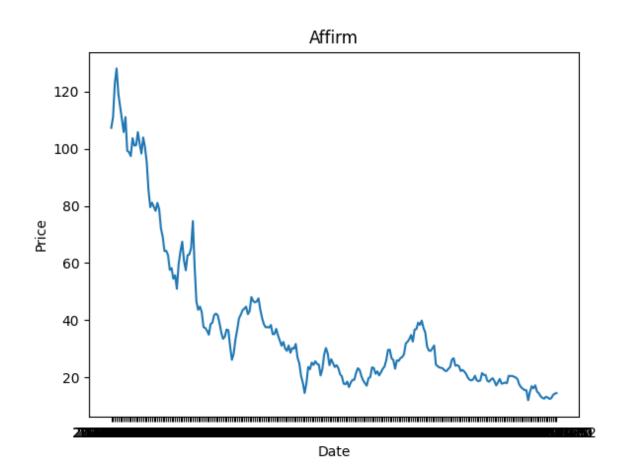
#### File

 Paste a screen shot of the file downloaded from Yahoo finance



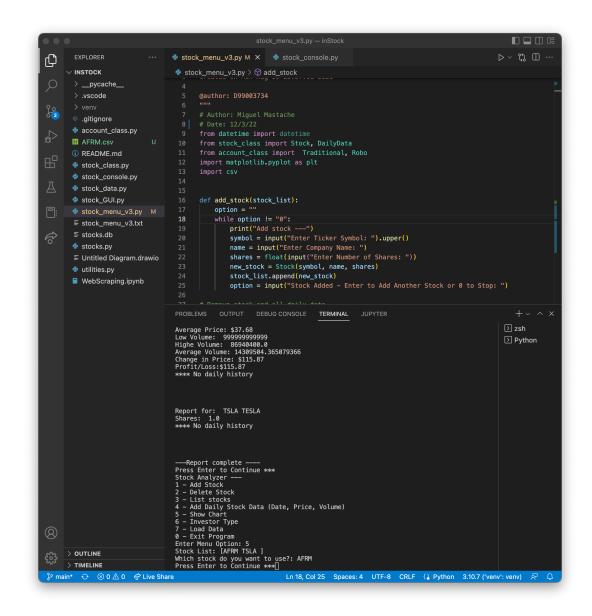
# Importing data

• Screenshot of the historical data import



## Importing data

Screenshot of the historical data import



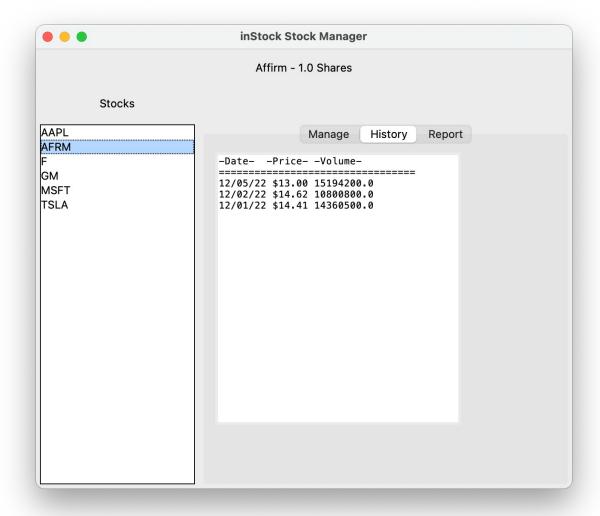


## GUI

This section covers the development of the graphical user interface for the stock tracking application.

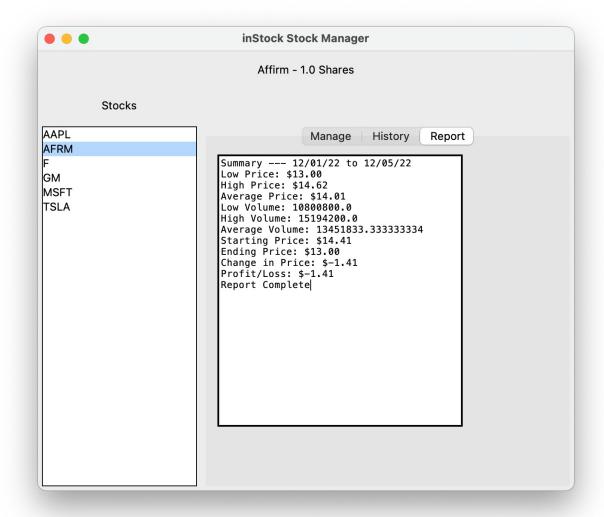
## History Tab

• Paste a screen shot of your history tab.



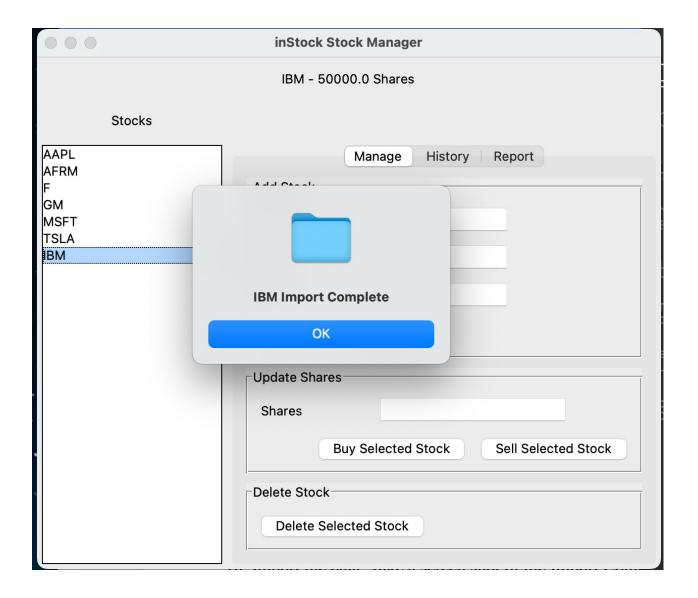
## Report Tab

• Paste a screen shot of your report tab.



## Import Complete

• Paste a screen shot of your Import Complete confirmation message.



## Challenges

A few challenges were faced in the development of this project. First and foremost, I am not a fan of the limitations imposed by Anaconda. I prefer to use a clean version of python without the conda package. Therefore, I had to learn how to use Visual Studio Code, venv, and pip. Additionally, keeping track of all the installation packages proved to be challenging, but using virtual environments helped address this.

# Career skills developed

I became familiar with the use of pyenv on macOS.

Used virtual environments using venv.

Used pip to manage python packages.

Became familiar with Visual Studio Code.

Used object oriented programming.

Became familiar with gui development using tkinter.

#### Conclusion

Development of this app, allowed me to see how different pieces of software come together and work together to develop a modern gui based application. Additionally, introduced me to further areas of pursuit, in particular web scraping, database processing, and gui development.