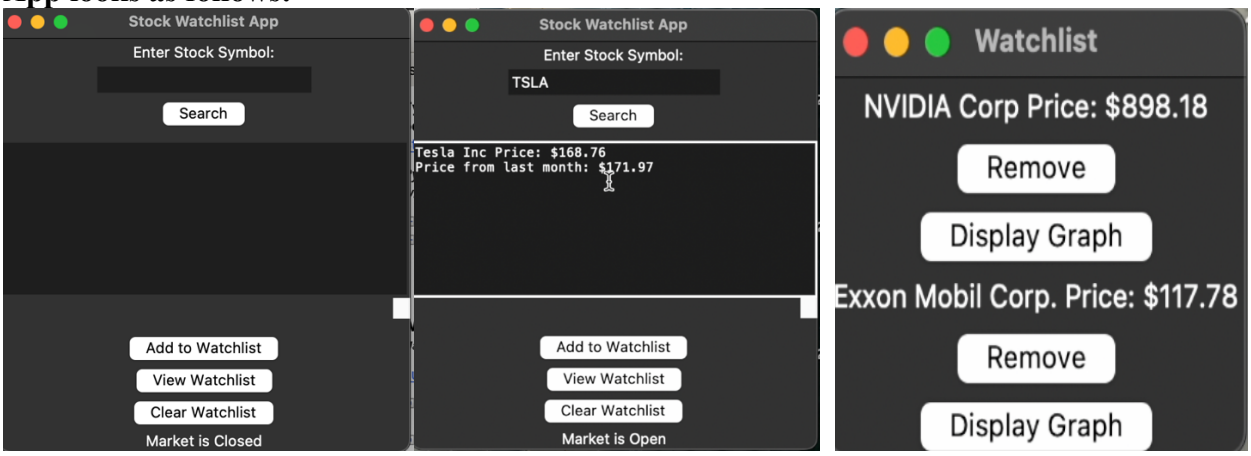
Stock Watchlist App

Summary: Stock Watch List App, developed in Python using modules such as Thinker, Flask, Datetime, Matplotlib and Pickle is an app that allows users to quickly look at the price of a stock just by searching it. When searched the name, the current price of the stock and the price of the stock the month prior will appear. Underneath this information 3 buttons appear, the 'Add to Watchlist' Buton that when clicked allows the user to add such stock to their watchlist file. If the stock is already in the watchlist a message saying that the stock is already there appears. Underneath that button the 'View Watchlist' button appears, when clicked the user's watchlist appears. This Watchlist is a file that has all the stocks that the user has saved, when saved the stock and their prices do not sit still. They keep updating reflecting their price in the market. Underneath, the 'Clear Watchlist' button allows users to wipe their watchlist. Below that a text signaling the current Status of the market appears. If the market is open it displays 'Market is Open, and if its closed it displays 'Market is Closed'. The API being used here is IEXCloudAPI, from there I pull information such as current state of the market, stock prices and historical prices of a stock. With the historical prices the user is able to see a graph of the stock prices of the last month from the watchlist screen.

App looks as follows:



Goal/Purpose: I wanted to easily access/look at the stocks I'm investing/interested on the go without risking sensitivity data and wasting time in doble factor authentication. Solution was to create this application that is very simple, no fancy colors, distractions or ads, just the information that I want.

What I Learned:

- Extraction of large data sets through an API.
- Displaying data in Matplotlib to make graphs.
- Being able to create a User Interface using Thinker and Flask
- The magic of updating files that are already saved with real time data.

Needed Improvements: Make the UI look better, Improve graphs, Find a new API since the current API has requests and time use limits.