For my final project, I would like to use web crawling for a website that I use to discover information about stocks every day- Yahoo Finance! Users will be prompted to enter a stock symbol at the beginning of the program, which will return a query with information about the stock’s current price, previous closing price, price differential between these two categories, and 1 year target estimate for the stock that the user entered.

Another table will display that stock’s performance in the year using the following metrics: Market Capital, 2017 reported revenue, and gross profit. The ‘Stock Name’ will be a primary key for this table which can be linked to the “Stock Symbol” of the other.

I plan on updating the SQLite file with this information every time a user makes a new requests and write queries to ensure that everything was copied over correctly. Beforehand, I will have all my data cached in a JSON file or dictionary to ensure that multiple requests for the same data are not being made.

I will be using Plotly to display the results of each user request. I recently discovered the [Chart Studio](https://help.plot.ly/database-connectors/query-from-plotly/) extension in Plotly that will allow the user to write queries and see the data displayed with its visualization features.