**Project Update #1**

-Stock Screener-

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**What have we done so far?**

In the beginning, our group decided to choose an agile approach for this project. We have had multiple meetings each week to map out our future progress steps. Initially, we chose the necessary tools needed for our stock screener application such as API (Alpha Vantage) and our stock indicators. Then, we proceeded to do more research on the factors that drive these indicators and decided what thresholds are appropriate for our application. Moving forward, we then created wireframes for the application interface so that we can build off that. We discussed the needs of our potential users and the services that our stock screener will provide.

We have set up our repository on GitHub and created a branch for each member of the team. In the repository, we keep track of the minutes, future goals, tasks for future meeting and the source code of our application. In the meantime, we also got familiarized with the Git language and its basic commands. As we go along, we are planning to further develop our Git knowledge. Each time we meet, we take notes on the minute about each of the new git or bash commands we learn.

Once we had the environment setup, we began our development stage (actual coding). Since we are all beginners with Python, we have had to understand the basics of it and try to implement the API offered by Alpha-Vantage. So far, we managed to graph and output data relevant to our indicators. On our User-interface side of the project, we have created the framework and we are waiting for further progress of the back-end before we advance.

**What new information has come to light?**

Upon researching the Alpha-Vantage API, we have come to learn that some of the data retrieved may be unreliable or missing. Unfortunately, this is not something that we have access to and we will have to continue implementing this API. When we will finish implementing all our indicators, we will make sure to test the accuracy of the data.

As we were discussing possible ways to synchronize the data obtained by our application with the user interface, we realized that there are many ways we can display our watch list. To avoid scope creep, we decided to start with a basic display that shows a sorted watch list based on our generated list.

**What is the plan for next time?**

For the next couple weeks, we will continue to explore the methods offered by Alpha Vantage and we will focus on the back-end development part of the project. We will try to obtain a list of companies and their associated indicators. Then, we will try to make a list of the companies that pass our index-based requirements. We will keep improving our knowledge on Git commands and best practices of software engineering. So far, the agile approach is working properly so our team will meet continuing frequently. Concerning the user interface, we will create a basic search bar and continue to create the “Watchlist” and “Generate” pages.

**Do we want feedback?**

Yes, we would like to hear your feedback. Your opinion about our current progress and our software development approach would be very valuable.

Here you can see our GitHub repository where you can find all the source code, interface and commits.