Project Outline and Design:

Team name:

Team members: Connor Stevens – Server Info, Yen Le – Client Connection/GUI

Link to project Github repo: <https://github.com/cstevens0609/Stock_WebScraper>

Introduction:

Our final project is a stock web scraper that will use Socket programming to help server and client communicate on what information needs to be sent/received.

Features:

1. Server will sort info from stock website
2. Server will then ask client questions on what they want to see
3. User can ask to see specific company
4. User can ask to see specific company numbers
5. User can ask to see biggest “winner” at the time

Design:

Details:

Web Scraper Server:

TCP server that uses web scraping to get information from a stock website ([https://markets.businessinsider.com](https://markets.businessinsider.com/)). The server is responsible for:

* Reading and sorting the information from the stock website
* Reading in inputs from the client
* Finding the information the client wants and sending it back to them

Web Scraper Client:

TCP Client that will be:

* Prompted for what info they would like to receive (company specific numbers, or which company’s stock grew the most)
* Asked for a given time (the website uses the time periods of today, 3 months, 6 months, and 1 year)
* Responsible for receiving all the information back from the client.

Tools:

Hardware:

* Razor Laptops

Software:

* Python socket library
* Business Insider Stock Website

Weekly Plan:

|  |  |
| --- | --- |
| What to have done | Due date |
| Finish lab 5 and submit project outline | 10/25 |
| Have server process HTML information | 11/1 |
| Have server sort HTML information | 11/8 |
| Set up TCP connection | 11/15 |
| Get inputs from client to server and send back desired info | 11/22 |
| Fix bugs/GUI | 11/29 |
| Fix bugs/GUI | 12/6 |