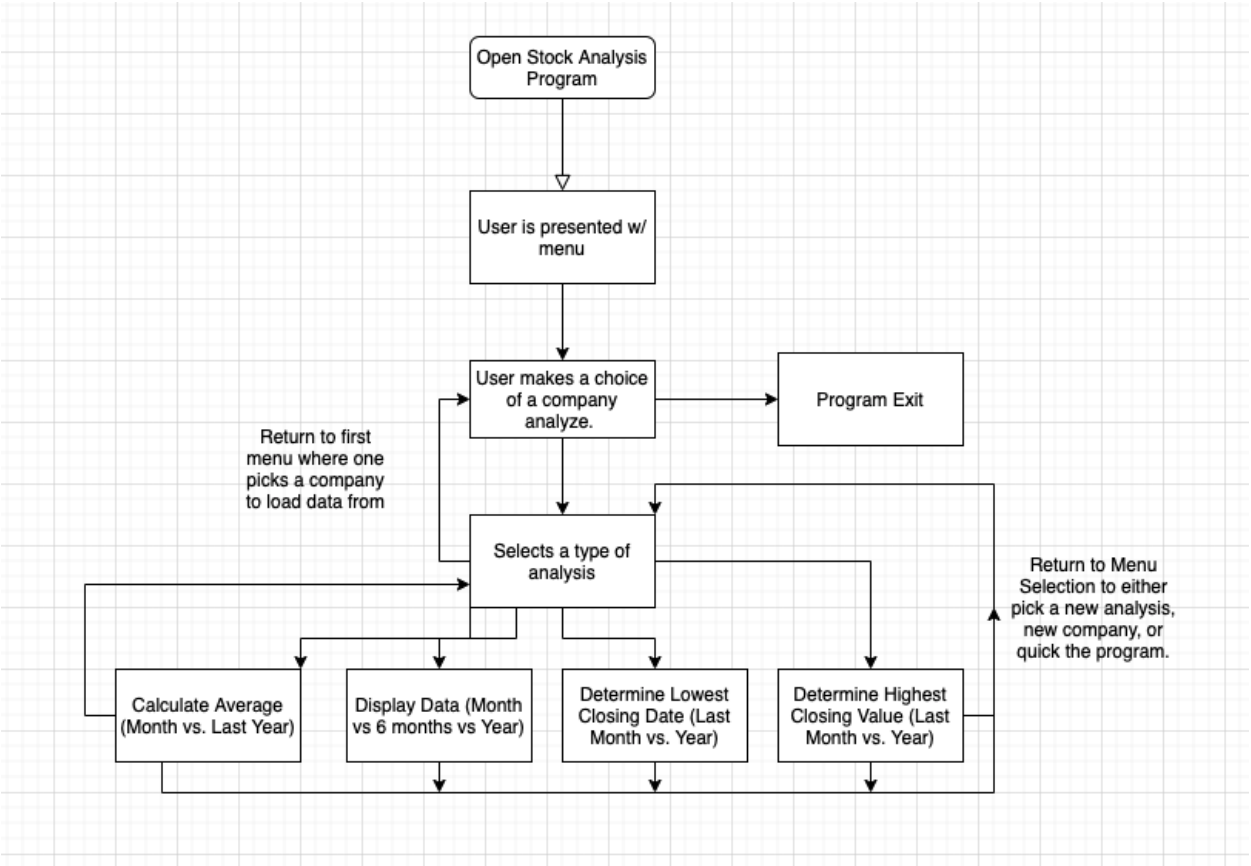
Criterion B - Record of Tasks & Design Examples

Task #	Planned Action	Planned Outcome	Time Estimated	Target Completion	Criterion
1	Meeting with client to discuss problem (researching stocks)	Identifying the solutions (which companies)	1 day	April 10, 2021	A/app
2	Meeting with the client/advisor to discuss stock specifics and what analysis they'd like.	Identifying which data points they'd like to analyze (averages, trade days highs/lows)	1 day	April 11, 2021	A/app
3	Meeting with advisor to plan solution success criteria and basic foundation of solution (i.e. user interface and method of presenting plans)	Identifying user interface type (command line) and which forms of visualizing the program would be appropriate (i.e. flow chart, UI drawing)	2 days	April 13th, 2021	A/B/app
4	Creating Draft versions of product design and classes using screen sketch(s), UML class for essential algorithm, flow charts, etc	Create flow chart for stock analysis, screen sketch to demonstrate the various prompts that a user may see with the program.	3 days	April 22nd, 2021	B
5	Meet with the advisor to demonstrate flow charts and screen sketch, confirm final solution expectations.	Agree upon final adjustments for flow chart and screenchart of the command line interface to continue to the coding phase of the project.	1 day	April 24th, 2021	A/B/app
6	Create a Test Plan addressing the main	Have a proficient Test Plan to	3 days	April 27th, 2021	B

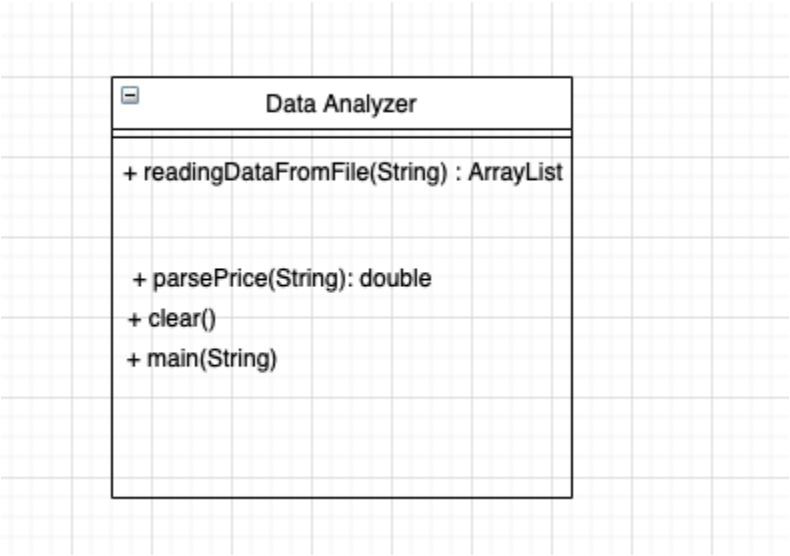
	areas of functionality for the project, testing all success criteria.	utilize upon completion of Criterion C in order to evaluate test criteria being met.			
7	Continue working on and complete class and algorithms for the StockAnalyzer.	Complete the majority of the agreed upon product solution from the client/advisor, with majority of the class methods in working condition, correct display.	10 days	May 10th, 2021	C
8	Final meeting with client/advisor to demonstrate the final product and confirm satisfaction of all success criteria.	Client/Advisor should be satisfied with the end product solution and be demonstrated how said product fulfills all success criteria.	1 day	May 11, 2021	E
9	Write and elaborate through extensive writing a list of methods, techniques, and skills demonstrated in the solution of this project that demonstrate algorithmic thinking.	A list of techniques and methods the student wants to speak upon has been selected, including relevant screenshots from the product code, and detailed explanation of these methods' relevance to the project.	5 days	May 14th, 2021	C/app
10	Record a video demonstrating the	A video should be created,	1 day	May 17th, 2021	D

	functionality of the product solution, running through the Testing Plan from criterion B.	summarizing the met success criteria of the final product and other relevant details.			
11	Evaluating firstly the product's completion of the success criteria outlined in criterion A, referencing the client's feedback and suggestions. Use this time to additionally share possible ways to expand upon, develop, and improve the product.	Evaluate and compare the completion of success criteria directly related to Part A and client's final feedback. Using said client feedback and personal takeaways, determine ways to develop the product further.	1 day	May 18th, 2021	E

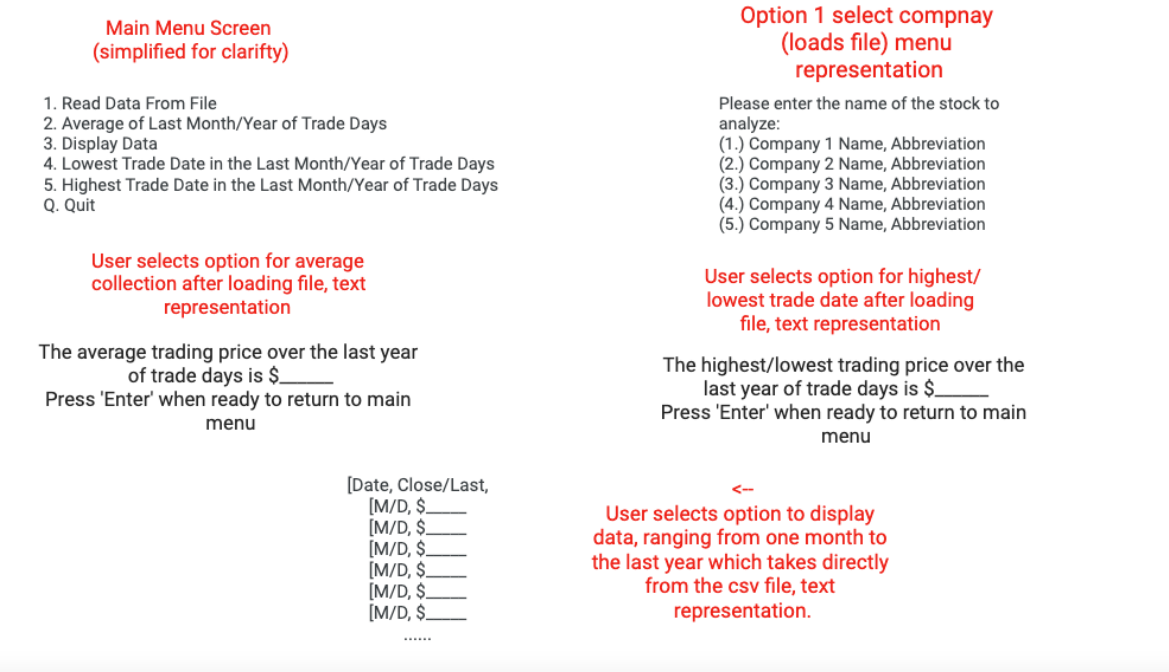
Flow Chart, demonstrating the order of the code and how the user would theoretically navigate the class as they utilize the program (Shown Below).



UML Class Diagram (Shown Below):



Link to Jamboard Screen Sketch (Shown Below):



Criterion B - Testing Plan (shown below)

Action To Test	Testing Method	Example
Loading a .csv file to the main function.	1. Entering option 1 in the main menu (keyboard "1") 2. Selecting Company 1 - 5 via keyboard (keyboard "1" - "5") 3. Program should verify that the requested data file has been loaded. 4. Repeat this test for *each company* in order to verify the success criteria fully.	1. Entering option "1", "1. Read Data From File" 2. Select Company (ex. "(1.) Hewlett Packard Enterprise, HPE") Program should return "Successfully imported data for 1"
The program's ability to read through the above .csv file and create an ArrayList.	1. Entering option 4 in the main menu (keyboard "4") 2. Selecting Preferred amount of historical data you would like to view	1. Entering option "4", "4. Display Data" 2. Select Desired time length (ex. "1. Print data for the last month

	(keyboard “1” - “3”) 3. Program will demonstrate that it has adequately read through the selected company, created an ArrayList and displayed said ArrayList in the requested amount of time. 4. Repeat this test for *each time length and company* in order to verify the success criteria fully, and any edge cases.	of trade days.”) Program should return the last twenty-two days of stock data, which is the equivalent of about one month of stock trade days.
The StockAnalyzer’s proficiency in reading and calculating the average in a given period of data of the current selected company (i.e. last month or last year)	1. Entering option 2 or 3 in the main menu (keyboard “2” or “3”) 2. The program should return to you the average value, whether from the last month’s worth or year’s worth of stock days, in the proper $00.00 formal presentation. 3. Repeat this test for *each time length and company* in order to verify the success criteria fully, and any edge cases.	1. Entering option “1”, “1. Read Data From File” 2. Select Company (ex. “(1.) Hewlett Packard Enterprise, HPE”) (and receive confirmation that the file has loaded) 3. Entering option “2”, for example, “2. Average of Last Month of Trade Days” Program should adequately return “The average trading price over the last month of trade days is $15.69”, demonstrating the competency of calculating the average given company name and amount of time.
The StockAnalyzer’s proficiency in reading and determining the lowest trade day in a given period of data of the current selected company (i.e. last month or last year)	1. Entering option 5 in the main menu (keyboard “5”) 2. The program should return to you the lowest value, whether from the last month’s worth, six months worth, or year’s worth of stock days, in the proper $00.00 formal presentation.	1. Entering option “1”, “1. Read Data From File” 2. Select Company (ex. “(1.) Hewlett Packard Enterprise, HPE”) (and receive confirmation that the file has loaded) 3. Entering option “5”,

	3. Repeat this test for *each time length and company* in order to verify the success criteria fully, and any edge cases.	for example, “5. Lowest Trade Date in the Last Month of Trade Days” Program should adequately return “The lowest trading price over the last month of trade days is $14.76”, demonstrating the competency of calculating the average given company name and amount of time.
The StockAnalyzer’s proficiency in reading and determining the highest trade day in a given period of data of the current selected company (i.e. last month or last year)	1. Entering option 7 in the main menu (keyboard “7”) 2. The program should return to you the highest value, whether from the last month’s worth, six months worth, or year’s worth of stock days, in the proper $00.00 formal presentation. 3. Repeat this test for *each time length and company* in order to verify the success criteria fully, and any edge cases.	1. Entering option “1”, “1. Read Data From File” 2. Select Company (ex. “(1.) Hewlett Packard Enterprise, HPE”) (and receive confirmation that the file has loaded) 3. Entering option “7”, for example, “7. Highest Trade Date in the Last Month of Trade Days” Program should adequately return “The highest trading price over the last month of trade days is $16.01”, demonstrating the competency of calculating the average given company name and amount of time.
The program's ability to switch between the selected companies by the user.	1. (assuming the user has previously loaded a company of their preference to analyze using option 1, and would now like to switch to a new one), the user again enters option 1 in the main menu (keyboard “1”) 2. Selecting Company 1 - 5	1. The user has previously loaded company #1, “(1.) Hewlett Packard Enterprise, HPE”, but now would like to change to option 2, “(2.) Amazon, AMZN” 2. Entering option “1”,

	via keyboard (keyboard "1" - "5") 3. Program should verify that the requested data file has been loaded.	"1. Read Data From File" 3. Select Company (ex. "(2.) Amazon, AMZN") Program should return "Successfully imported data for 2"
The program's ability to switch between each completed option in the menu simply by the user clicking the "enter/return" keyboard.	1. (assuming the user has previously loaded a company of their preference and analyzed them using any of the options followed ("2"-"9")) 2. Once the user's request to receive the calculated average(s), highest, lowest days, etc, they should be presented with "Press 'Enter' when ready to return to main menu" under their received analysis. 3. If the user presses "return/enter", they should be immediately taken back to the main menu, labelled "1" through "Q".	1. Selected company has been loaded using option 1, stated above. 2. User has utilized any of the other options to analyze said company from option 1 and has had their desired data points printed on the screen. 3. User clicks the "return/enter" key on the command line. Program should return the user to the main menu, labelled with options "1" through "Q".
The program's ability to "clear" the screen between every interaction and menu selection.	1. (assuming the user has previously loaded a company of their preference and analyzed them using any of the options followed ("2"-"9")) 2. Once the user's request to receive the calculated average(s), highest, lowest days, etc, they should be presented with "Press 'Enter' when ready to return to main menu" under their received	1. Selected company has been loaded using option 1, stated above. 2. User has utilized any of the other options to analyze said company from option 1 and has had their desired data points printed on the screen. 3. User clicks the "return/enter" key on the command line. Program should clear the current screen that the user

	analysis. 3. If the user presses “return/enter”, they should immediately see their current screen “removed” and replaced with the new menu, demonstrating that their previous screen has been “cleared”.	saw before clicking enter, and replace it with the original main menu, demonstrating that the previous screen(s) have been “cleared”.