ISM 6225 - Distributed Information Systems

Assignment II – Object Oriented Programming Introduction

Submitted To:

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Submitted By:

GROUP 5

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Contents

Project GitHub URL:

https://github.com/rajasinghr/DISAssignment2

Output Results:

The project is done by three users and each one has responsibility for each file.

File Name	User
Assn2_StockList_Students_1.cs	Raja Singh Ravi
Assn2_StockList_Students_2.cs	Vigneshwar Sripad
Assn2_StockList_Students_3.cs	Azeem Syed

Sheet 1 – Sorting Output

file:///E:/USF/Courses/ISM6225-DIS/Projects/DIS_ClassAssigment2/DIS_ClassAssigment2/bin/Debug/DIS_ClassAssigment2.EXE

```
*************************Client-1 Stocks sorted by Name*************************************
AMZN, Amazon, 1.2, 198.7
AAPL, Apple, 6, 222.7
GOOG, Google, 2.4, 6.27
MSFT, Microsoft, 5, 111.2

*************************Client-2 Stocks sorted by Value*************************************
AAPL, Apple, 5, 147.6
GOOG, Google, 3.6, 115.3
Z, Zillow, 2.4, 207.6
B, Barnes , 2.2, 68.7
```

Sheet 2 – Results

C:\Users\vigne\source\repos\NewRepo\DIS_ClassAssigment2\bin\Debug\DIS_ClassAssigment2.exe

```
**************************Client-1 Portfolio**********************************
Number of shares :4
AAPL, Apple, 6, 222.7
Stock with most shares for client 1:AAPL, Apple, 6, 222.7
**************************Client-2 Portfolio**********************************
Number of shares :4
AAPL, Apple, 5, 147.6
Stock with most shares for client 2 :AAPL, Apple, 5, 147.6
******************Client-1,Client -2 Merged Portfolio***********************
AMZN, Amazon, 1.2, 198.7
AAPL, Apple, 11, 222.7
B, Barnes , 2.2, 68.7
GOOG, Google, 6.0, 6.27
MSFT, Microsoft, 5, 111.2
Z, Zillow, 2.4, 207.6
```

Sheet 3 – Results


```
C:\Users\Azeem Syed\source\repos\DISAssignment2\DIS_ClassAssigment2\bin\Debug\DIS_ClassAssigment2.exe
*************************Client-1 Portfolio*************************************
AMZN, Amazon, 1.2, 198.7
AAPL, Apple, 6, 222.7
GOOG, Google, 2.4, 6.27
MSFT, Microsoft, 5, 111.2
Current value of protfolio for client 1 :2145.688
*************************Client-2 Portfolio*************************************
AAPL, Apple, 5, 147.6
B, Barnes , 2.2, 68.7
Z, Zillow, 2.4, 207.6
GOOG, Google, 3.6, 115.3
Current value of protfolio for client 2 :1802.46
Similarity Index for Client-1 and Client-2 :2
```

Git Log result:

Raja Singh Ravi's Log:


```
E:\USF\Courses\ISM6225-DIS\Projects\DIS_ClassAssigment2>git log --author="rajasinghr" --pretty=tformat: --numstat
215     217     DIS_ClassAssigment2/Assn2_StockList_Students_1.cs
6       1       DIS_ClassAssigment2/Program.cs
47      4       DIS_ClassAssigment2/Assn2_StockList_Students_1.cs
26      19      DIS_ClassAssigment2/Program.cs
35      0       DIS_ClassAssigment2/Assn2_ClientPortfolio.cs
1       0       DIS_ClassAssigment2/DIS_ClassAssigment2.csproj
51      2       DIS_ClassAssigment2/Program.cs
34      0       DIS_ClassAssigment2/Assn2_Stock.cs
245     0       DIS_ClassAssigment2/Assn2_StockList_Students_1.cs
48      0       DIS_ClassAssigment2/Assn2_StockList_Students_2.cs
45      0       DIS_ClassAssigment2/Assn2_StockList_Students_3.cs
26      0       DIS_ClassAssigment2/Assn2_StockNode.cs
5       0       DIS_ClassAssigment2/DIS_ClassAssigment2.csproj
1       1       DIS_ClassAssigment2/Program.cs
1       0       DIS_ClassAssigment2/Program.cs
22      0       DIS_ClassAssigment2.sln
6       0       DIS_ClassAssigment2/App.config
60      0       DIS_ClassAssigment2/DIS_ClassAssigment2.csproj
15      0       DIS_ClassAssigment2/Program.cs
36      0       DIS_ClassAssigment2/Properties/AssemblyInfo.cs
63      0       .gitattributes
242     0       .gitignore
```

Vigneshwar Sripad's Log:


```
C:\Users\vigne\source\repos\NewRepo\DIS_ClassAssigment2>git log --author="vigneshwarsripad" --pretty=tformat: --numstat
52      44      DIS_ClassAssigment2/Assn2_StockList_Students_2.cs
24      37      DIS_ClassAssigment2/Program.cs
60      8       DIS_ClassAssigment2/Assn2_StockList_Students_2.cs
9       4       DIS_ClassAssigment2/Assn2_StockList_Students_3.cs
16      16      DIS_ClassAssigment2/Program.cs
```

Azeem Syed's Log;

```
C:\Users\Azeem Syed\source\repos\DISAssignment2\DIS_ClassAssigment2>git log --author="azeemsyed88" --pretty=format: --numstat

12      15      DIS_ClassAssigment2/Assn2_StockList_Students_3.cs

32      18      DIS_ClassAssigment2/Assn2_StockList_Students_3.cs


28      24      DIS_ClassAssigment2/Assn2_ClientPortfolio.cs
31      10      DIS_ClassAssigment2/Assn2_StockList_Students_3.cs
2       2       DIS_ClassAssigment2/Program.cs

17      5       DIS_ClassAssigment2/Assn2_StockList_Students_3.cs
8       8       DIS_ClassAssigment2/Program.cs

14      3       DIS_ClassAssigment2/Assn2_StockList_Students_3.cs
27      27      DIS_ClassAssigment2/Program.cs
```

What We Learned:

According to Raja Singh Ravi:

"I have prior experience on working Git repositories through Visual Studio. But here, I learned how to set up and do transactions through Git Commands. Initially, it took a lot of time for me to understand a LinkedList of objects (Stock). Also, when implementing sorting methods, I refreshed my knowledge of different types of sorting.
I feel, if any references/links were given to students to learn simple Linked List of integers like train coaches with the number of passengers, would be made an easy learning."

According to Vigneshwar Sripad:

"I do not have much programming experience prior to this. I believe that I learned quite a lot Linked Lists and Object Oriented Programming. It was a very good learning experience for me as I worked on while loops, merging and iterations. Also, this is the first time I am using Git to upload files to a server. Although I am new to it, I felt relatively comfortable with using the Git plugin in Visual Studio. I feel that the assignment was very much useful for me."

According to Azeem Syed:

"I did spend some time on installing and understanding about Git. The files can be uploaded and synchronized to Git using the UI interface from Visual studio and also from the command prompt. I personally felt using Git from visual studio is more convenient. The assignment helped me in understanding the concept of object oriented principles. Best thing I liked about the assignment is the modularity. It is divided into 3 sections without any dependency between them.

We can add following things in the assignment to make it more useful.
1) Only insertion operation is described in the assignment. We can add delete operation to remove stocks from the client portfolio. 2 extra methods can be added to delete from first and delete from last.
2) We can also add search method here which will search whether a particular stock is present in the client portfolio or not. This is useful if we have many stocks and want to get details about any particular stock."