**Introduction**

* Under the curriculum of CS101, we were entitled to do a project. For which the students were divided into number of teams based on their lab batches.
* We decided to work on ‘Virtual Stock Market Game’.
* Our team comprises of 7 members.
* And we have worked under the guidance of our lab TA, Neehar Jathar.

**Logic used in the program**

* **Initially the user logs in the game.**
* **If the user in new then a profile is created on his name.**
* **If the user is old them the existing directory of his profile opens up.**
* **A new user is initially provided with an account, holding a certain amount of money.**
* **The player then chooses a company to deal with and the no. of shares he wants buy or sell.**

**Sample Outputs**

The main outputs of the program contain:

User history -User history & User account

Transaction history

-no. of shares bought and sold and of which company

Company data

Shares that each company contains

**Work Division**

* **It was decided to divide our work in the ratio of 2:2:3**
* **Ankit Chouskey and Anmol Garg:**
* The idea of ‘stock market game’ was given by Ankit.
* Company information display
* Old user handling(initially)
* Companies list display
* Companies last 10 days performance(not included)
* Get data from files to array and return the modified data

**Amolika Soni And Antara Boruah:**

* Interface design
* Company database(not included)
* Files containing user history(not incuded)
* News file
* News display
* Preparation of project report
* **Anshu Kumar, Anshul Mehra And Animesh Singh**
* Old user handling (modified)
* New user
* News flashing
* Modification in the user profile
* Transactions

**Functions**

* Making file of new user

By:Anshu

using strlen

ofstream

* Checking existence of old user

**By:**Animesh,Anmol

fopen

* recalling of company.txt file during transaction

Anshul,Anmol

FILE\*fp

fscanf

printf

* buy & sell logic

Anmol(initially)

Anshu(updated)

do while loop

* formula(rand function)

Anshu

* updating of new user profile

filout

Anshu

* updating of companies for new user

filout

Anshu,Anshul

* updating of old user profile

Animesh,Ankit

classes: old user class

defined function

return\_name,return\_share,display

search

boolean

strcmp

ifstream

ofstream

remove

rename

* updating of companies for old user

By:Animesh,Anshul

ifstream

ofstream

remove

rename

Peer review

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| ROLL NUMBER | 110010030 | 110010031 | 110050020 | 11506001 | 110040011 | 11D170021 | 11D260010 |
| MARKS | 7 | 8 | 9 | 7 | 10 | 8 | 9 |

What could have been done

1. Company’s last ten days report could have been included.

2. We have created the game on small scale.

3. Graphics and eZwindows.

4. Password incorporation.

**CONCLUSION**

All in all the project idea helped us learn a lot of things specially about our project that is VIRTUL STOCK MARKET.

We also learnt group dynamics like how to manage and co-ordinate activities in a group .

Initially when we started the project thinking seemed tough as to how would we proceed but when it was completed we realized what we made was quite simple and we could have done better but there is always room for mistakes and learning things,

In the end i will like to thank all the team members for there valuable support.

All the students in our group were enthusiastic about the project till the end,they were present everytime we held a meeting and did their work on time so THANK YOU guys.

Well done.