SEMESTER : 3rd	FALL	BSCS-AI – 3A	2022

TITLE OF PROJECT

Trading Software

Group Members

S#	Student(s) Name	Registration Number
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EXECUTIVE SUMMARY OF PROJECT PROPOSAL

Our project, "Trading software" is a program that facilitates the analysis and trading of financial products, such as stocks, currencies, and cryptos, with a financial intermediary. Traders use trading software to place trades, execute market positions, and monitor their accounts. We will be using more than one software for this, Code-Blocks, Visual Studio, and Dev-C to code in C++ language.

PROJECT PURPOSE, SCOPE AND OBJECTIVES

Purpose:
The primary aim of a trading system is to manage risk and to increase profitability in any market environment. Optimal levels of risk and reward are accomplished by modifying the different parameters within each rule of the system.

Scope:
Our planned project of a trading software is venturing into brokerage software development to make real money — which comes as a by-product of offering value to consumers. However, monetization is different in stock market software development. We also provide risk management to avoid losses and increase profitability in any market environment.

Objectives:
Our trading software allows investors to place orders, open and close trades, and monitor trades through their financial intermediaries. As the traditional floor trading is being phased out, most traders now prefer trading using self-directed trading accounts.

PROJECT DESCRIPTION

Get Account Information:
In this operation, we will Just print the information about the user account. i.e. all the variables we have to observe are profit-loss, currencies, amount, etc.

Deposit Money:
In deposit, we can deposit money in our account.

Withdraw Money:
In withdrawal, we can withdraw the money we have in our account.

Buy Cryptocurrencies:
We will buy crypto using this operation. We can buy either Bitcoin or Dogecoin depending on our needs.

Sell Cryptocurrencies:
We will sell crypto and add the amount we get after selling to our account.

Check Transactions:
In this Operation, we will print all the transactions performed till now.

TEAM PROFILE

We are 3 team members; Hafsa Hafeez, Haris Aamir, and Muneeza Iftikhar.

Individual team member profiles are as follows:

Muneeza Iftikhar:
I completed my A levels before joining the university. My previous experience includes programming in C++ programming where I was tasked to design a basic restaurant management system that takes orders and generates a receipt. Furthermore, a lucky draw if a certain price quota is reached. I have expertise in design, organization, and management and am able to successfully manage digital and physical spaces. Furthermore, designing is one of my hobbies, though at an amateur level I enjoy working on it.

Hafsa Hafeez Siddiqui: Experienced in coding in PsuedoCode and VisualBasic for O'Levels Computer Science. I completed my A levels before joining the university. In the first semester, we worked with C++. Designed a user-based restaurant management system, that takes orders and generates a receipt. Furthermore, a lucky draw if a certain price quota is reached. I have expertise in design, organization, and management and am able to successfully manage digital and physical spaces.

Haris Aamir: Experienced in Python and C programming before starting at Bahria University. Here at Bahria, I got my hands set on C++ and Java, the basic and complex OOP Concepts. Hence, I'm skilled at programming so I am going to be handling a slightly larger part of programming and will be managing that.

Irrespective of our personal experience, knowledge, and strengths, we have and are willing to contribute equally to this project to execute our idea to the best of our ability.

ASSUMPTIONS AND CONSTRAINTS

Assumptions:

- The reader knows C++
- The use of advanced C++ features is encouraged wherever beneficial, rather than discouraged on the ground that some programmers are unfamiliar with them. This is the only way in which the project can really benefit from using C++. C++ should not be used as if it were C, in fact the object-oriented features of C++ preclude its use as in C. Paraphrasing the code in comments is discouraged; on the contrary, the source code should be used in place of comments wherever feasible.
- Follow large project practice.
- Many rules offer the most value in large systems, although they can also be used in a small system, if only for the sake of practice and uniformity at the project or corporate level.
- Coding follows data structures and systematic mapping.

Constraints:

- It takes a lot of time to compile anything in C++
- Time to complete the project is very less, because we have other lab projects due as well, on top of complex computing assignments for every course.
- Motivation of each group members is gonna go down as we move forward, and god forbid if we get stuck somewhere.

PROJECT DELIVERABLES

Deliverables include

Time Line

ITEM	DATE	SIGNATURE
Group Member Names	6 November	
Project title	6 November	
Project Proposal + classes name	6 November	
Project Structure Diagram + Data Sample	5 December	
Classes UML diagram and apply OOP Concepts	10 December	
Project Prototype	15 December	
Project Review 1	1 January	
Project Review 2	5 January	
Project Submission	10 January	

For Teacher Use Only

REMARKS

DEPARTMENT OF COMPUTER SCIENCE
Object Oriented Lab
PROJECT PROPOSAL FORM

Course Teacher		**Signature**		**Date**	
Name		**Signature**		**Date**	