# ECS414U/A Miniproject form

Queen Mary University of London

2021/22

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| Name | Fraaz Kagzi |
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| Submitted file name | Miniproject.zip |
| Level of this program (1, 2, 3, Extra) | 3 |

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| Brief description of the program. Write the chosen theme and a high-level overview of the features (two or three sentences should suffice). |
| A mock stock trading program, where the user can have a stock wallet .Within this Stock wallet, they can deposit and withdraw their money in GBP as well as buy and sell shares in companies such as Intel, Apple and Google. |

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| List all your source code files, and briefly describe their roles. Add as many rows as necessary. Mark the main file used for compilation in bold. | |
| File name | Description |
| **TradingApp.java** | This runs the project and **holds the main method**, this file runs the main GUI for the project and provides the user with a easy interface where they can trade their stock |
| BuyingFrame.java | This file opens a new frame a providing users with a GUI which allows users to buy stocks from three choices: Intel, Apple or Google depending on the amount of GBP they hold in their wallet |
| SellingFrame.java | This file opens a new frame providing users with a GUI which allows users to sell stocks they own from their wallet convert it to GBP |
| Stock.java | This file holds the information for the object Stock, which consists of the name of the stock, the symbol of the stock and the rate of the stock |
| StockClass.java | This file creates an ArrayList of premade Stock objects and the outputs them on to a text area which was created during the TradingApp.java file |
| Wallet.java | This file holds the wallet of the user which consists of they GBP they hold as well as the number of shares they hold in the three companies : Intel, Apple and Google |
| Profile.java | This file is used to create and new profile for the software and enables users to reset the program and start it again with a new profile, resetting their wallet |
| User.java | This file is similar to the Profile.java files and stores info for the specific user using the software, once the user decides to have a new account a new user is created and the previous data is lost |
| UserName.java | A File that is made in order to assign each user with a name that is set via polymorphism, |
| ProfileActions.java | This file is an interface that holds methods which are implemented in both User..java and Profiles.java |
| Trading.java | This file has the methods that aren’t directly trading and dealing with stocks. Methods such as getWallet and ConvertTwoDP which converts a long double value to 2 decimal places to get it in the money format |
| StockTrading.java | This file is similar to Trading but this file deals with the actual trading of stocks and holds the Buy & Sell methods for the 3 different choices of stocks. |
| GetInput.java | This file is used to give a user a prompt and the allow the user to enter their input to the prompt which is then saved |
| CloseWindow.java | This file is so that the frame closes when the cross is clicked. |

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| Class diagram, in the format specified in the instructions. |
| Diagram  Description automatically generated |

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| Usage instructions. Describe briefly what features are available to the user and how to use them. If File I/O is used, list and describe the files involved. |
| Click the new account button to create a new account and set the name to whatever you’d like this also resets the wallet  Click Deposit and the input an integer to put money(GBP) in to your account  Click Withdraw to input an integer amount remove that amount GBP from your wallet if you have enough  Click Buy to show a window with buttons that show which stock you can buy clicking these would then make you input an integer depending on how many shares you want to buy and then if you have enough GBP you can buy the amount of shares you desire  Click Sell to show a window with buttons that show which stock you can sell,clicking these would then make you input an integer depending on how many shares you want that stock you want to sell and then if you have enough GBP you can sell the amount of shares you desire and increase your GBP in your wallet. |

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| Other comments. |
| RUN TradingApp.java in order to have the full project ran |