Students Names:

1- Ahmed Ahmed Mokhtar **section:** 1 **BN:** 1

2- Yasmeen Badr Dyaa **section** 2 **BN** 37

3- Malak Saad Abdullah **section** 2 **BN** 26

4- Mennat Allah Khalifa **section**: 2 **BN**: 28

5- Osama Magdy Ali **section**: 1 **BN**: 10

User Manual:

1. Download the whole application by cloning the repo from GitHub.
2. The application folder consists of several folders. You are only required to use the src folder.
3. Open src folder in Intellij Idea.
4. Open file → project structure → Libraries → add → java → choose the folder lib from the project folder
5. Within the src folder, you have two folders - backend, frontend-.
6. Open Folder frontend, run the HelloApplication class, Now you started your journey as a stockExchange user in the Game of thrones world.
7. If you already have an account, login. If you are not, sign in and then log in.
8. After Logging in you will be in the user home page, you will have several options to be explained now:

- Portfolio: In this page you can see all your information displayed - Holdings, Balance, Transaction History…etc.
- OrderManagement: This is your space to trade. You can buy and sell stocks in your favourite game of thrones houses -Starks, Tarly, Lannisters, Targerians…etsc. In this page You may choose between Limit Order and Standard Order. In limit Order, You pick a specific price and wait until your preferred house reaches this price and then the order becomes executed. Speaking of Standard Order, the system checks your balance and the no. of available stocks in this house and then the order is executed directly.
- Transaction: Simply, in this place you make requests to deposit or withdrawal money and wait for the admin to Approve or reject you request. After that, the money may be added or taken from your balance.

- Charts: Here you can fid line charts for each house stock price, this is a helpful tool to help you make your own decision whether to buy a stock in a certain house or not.
- Premium Subscription: You can subscribe to be a premium user and acquire extra features- the charts will be more organized, and you can subscribe for certain houses to get notifications when their price changes (All these features for only 50 dollars).
- Notification Alert: This window will be opened for premium users only. You can see all your notifications there.
1. If you are logged in as an admin you will only find multiple options:
- Start/End session: These buttons allows the user to start trading in the day or stop trading. It also saves the opening and closing prices of the houses.
- Manage Requests: In this section, all the transaction requests from the users are accumulated and you can accept or reject them.
- Manage Securities and bonds: Here you can add houses, increase the number of stocks, delete the house, change prices or change dividends.
- Manage users: In this place you can handle all the users in the application, You can set the premium, add a new user or delete an existing one.

10- From the login page, you can open multiple windows one for admin and one for user, you can't open multiple users at a time.