Usability Test Findings

Task Results:

For each task that the users had to perform, they were asked to state whether they could achieve the task. They did this by checking either a 'yes' box or a 'no' box.

They gave these results:

	Task 1	Task 2	Task 3	Task 4	Task 5	Task 7	Task 8	Task 9
User 1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
User 2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 4	Yes	No	Yes	Yes	Yes	No	Yes	No
User 5	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 6	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
User 7	Yes	Yes	No	No	Yes	Yes	No	No
User 8	Yes	No	Yes	No	Yes	Yes	Yes	Yes
User 9	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
User 10	Yes	Yes	Yes	Yes	No	Yes	No	Yes
User 11	Yes	Yes	No	No	Yes	Yes	Yes	No
User 12	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 13	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
User 14	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
User 15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 16	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
User 17	Yes	No	Yes	No	Yes	No	No	Yes
User 18	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 19	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
User 20	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Required Tasks:

The users were asked to perform the following tasks:

1. Select the **Matching Engine** and create a **Bid** for 500 shares at a price of 5.00 per share.
Could you complete the task?

2. Select the **Matching Engine** and create an **Offer** for 500 shares at a price of 5.00 per share.

3. Could you see a **Trade** occurring (i.e. The **Matched** order got one order)?

4. Select the **Simulator** and create a new stock called **FGH.** Add one **Market Participant** called **Bob** with an ID of **123.** Select the MACD Strategy. S**tart** the simulator and then **pause** it after running for a few seconds.

5. Select the **Simulator. Generate Stocks** as well **Generate Market Participants. Start** the simulator then **stop** the simulator after running it for a few seconds.

Questionnaire Results:

For the questionnaire, there were nine closed questions and one open-ended question. For the closed questions, the users had a scale with a choice rating of 1 to 5, with one being very easy, while five was very difficult. The summary of the questionnaire are given below:

Question	Average User Rating
1	4.2
2	3.6
3	4.8
4	3.4
5	3.6
7	2.8
8	4.8
9	6.8

	Question 6 Response
User 1	The system is too slow
User 2	The system is easy to use but don't understand its purpose
User 3	I liked it

Conclusion:

Based on these results, it is safe to conclude that:

- Users could successfully use the application.
- Users can use the Matching Engine and seem to understand its logic.
- Users can run the simulation with custom StockManagers and MarketParticipant
- Users can run the simulation with predefine StockManagers and MarketParticipants
- Users can start, stop and pause the simulation

The application seems to be easy for the users to use and run. The main problem users have with the application is understanding its practicality