Testing Checklist v0.8

Basic Issues – Registration

1. Can you/I register?

Notes: Yes. A simple registration using a fake name and fake e-mail, and using the AlpacaID and key generated on my end allowed me to be able to submit a registration, something that demonstrably worked. Note the screenshot below with the fourth entry in each table being mine.A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated

1. Does the maximum length for registering work?

Notes: Sort of. While the maximum length does work, it doesn’t stop the rest of the program from going, so it continues until the program realizes that the entry was denied in the first place. Where things get weird is that only certain parts of the database get updated as well, such as in trading strategies (which could prove to be a problem later on…) I have demonstrated this on the next page and in Question 4.

Text

Description automatically generatedA screenshot of a computer

Description automatically generated with medium confidence

1. Does the application handle complete duplicates?

Notes: Not exactly. From what I saw, if you use the same titles and same everything, it merely results in an update, rather than a complete denial. This could be a potential security risk if not handled properly.

1. Do all the trading strategies get applied?

Notes: Yes, they do. However, one concern I have is that, in the event of a fname or lname overload (hell, any overload), the program runs into an issue where it adds trading strategies where there is no user involved. While I haven’t seen any major issue crop up with this yet, it is admittedly something to be concerned about. A screenshot of a computer

Description automatically generated with medium confidence

1. Does the application recognize the deletion of an entry? (i.e. is the data actually being deleted?)

Notes: Technically, yes, and this was discovered through testing in overloading fname, as an account with no user is not accessed. However, there are trading strategies and other data that could potentially be left over, so this could be a problem.

Advanced Issues – Registration

1. Can I break the database through SQL attacks?

Notes: No, and this is a good thing! As demonstrated thorough the attached pictures, I attempted to do a SQL attack, but MySQL appears to sanitize the data without any issues. I’ve demonstrated this here (and I added in a meme for good measure when testing).

1. Is the database encrypted, if at all?

Notes: Yes. Noting the password in the credentials table, it is possible to note that the password I used for test1, 123, is completely encrypted to the point where it is not even discernable. I will run future tests on this, but right now, it appears to be working. Note the screenshot below.Graphical user interface, text

Description automatically generated

Basic Issues – Program Running

1. Does the program run locally?

Notes: Yes. Initially, there was an issue with a connection, but that was just me being unable to note the issues with Hangfire and putting in the correct password there.

1. Does Alpaca interact with the db?

Notes: Yes. Although it was a bit of struggle getting it connect, the db does run with Alpaca and Hangfire. This, therefore, shouldn’t be a problem in terms of a general release.

1. When the program is launched from localhost:5001 on any computer, does the program run?

Notes: Yes. However, I should note that one thing we will need to consider is that sometimes a git clone or npm install may cause problems down the line if it isn’t cloned correctly, especially since on my end there was a significant problem that required reinstalling the entire program. If this shows up when we move to publish, this could be a problem for specific users.