**INTEGRATION TESTING: EMAIL ALERTS**

**Description of how to Run test cases:**

\*Note after completion of the unit test for email alerts run these integration tests.

**Integration Test 1:**

Input the “email\_data.sql” code to test further use cases into a database to simulate tables. Use the “connect.php” file to allow access to one’s own database. Name the database EMAIL and the table CRYPTO which stores all information stock & crypto alike. Once data has been loaded into the database click check to simulate the checking and triggering of email alerts from the “check.php” file. This uses a combination of the mail, crypto API and stock API unit test as well as pulling data from a database.

**Integration Test 2:**

Use the “connect.php” file to allow access to one’s own database.

Input the email\_data.sql code to test further use cases into a database to simulate tables. Then run the “setStock.php”, “setCrypto.php” and “check.php” scripts and follow the scripts outputs as specified by the user to test those unit tests. All these files are included in the “InteALertScripts” folder. Also, name the database “email” and the table “crypto” which stores both stock and crypto values for alerts. For the integration test run setStock.php or setCrypto.php followed by check.php. These scripts generate an integration test that combines all the previous unit test to formulate email alerts. The set scripts will store values in the database. The “check.php” will pull these value from a database and pull values from an API make comparison and use the mail function to send the appropriate email.

\*Note for these integration test the mail output will be print on the screen because the mail user is set as a default email and it is meant to simulate all signed in users.

**Integration Test 1: RUN STOCK COMPARISON**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | Once stock or crypto data has been loaded in the databse run check.php. The script should compare the set values to the API values if there greater than or equal to for sell or less than or equal to for buy an email alert will print out on check page. Else, target not reached will print out. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |

**Integration Test 2: SET TARGETS & RUN CHECK & RECEIVE EMAIL**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | A user will enter target values and tickers for their desired crypto and stocks and press set. After the database is saved a check file will run making a comparison between stocks. After it will trigger an email if values are achieved else. Targets are not reached and no email will be sent. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |