**UNIT TESTING: EMAIL ALERTS**

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

**Unit Test 1:**

All these files are included in the “UnitAlertScripts” folder. To run the “mail.php” unit test, first one has to reconfigure their computer to act as a mail server using a local host. After replace the appropriate send and receive emails as specified in “mail.php” to test. Replace “SEND TO” with email you want to send to. Replace “HOST EMAIL” with your sender email. For this project you can you use a gmail account and gmail as an output mail server.

**Unit Test 2 & 3:**

To test “stockAPI.php” and “cryptoAPI.php” simply run these scripts and sample API data will be pulled.

**Unit Test 4 & 5:**

Input the email\_data.sql code to test further use cases into a database to simulate tables. The “connect.php” connects to the appropriate database. Modify connect to fit in with one’s database and its associated username and password. Then run the “setStock.php”, “setCrypto.php” scripts and follow the scripts outputs as specified by the user to test those unit tests. All these files are included in the “UnitAlertScripts” folder. Also, name the database “email” and the table “crypto” which stores both stock and crypto values for alerts.

**Unit Test 1: SEND EMAIL**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | A user will run the mail unit test script and an email will be sent. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |

**Unit Test 2: STOCK API**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | A user will run this script hardwired with the googl stock ticker and the stock price and PE ratio will be returned. This is a unit test for stock API. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |

**Unit Test 3: Crypto API**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | A user will run this script hardwired with the BTC crypto ticker and the crypto price will be returned. This is a unit test for stock API. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |

**Unit Test 4: Set Stock Buy/Sell**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | Select buy or sell and select what stock tickers and prices one wants to set alerts for. Press “Set” and these stocks shall appear in the crypto “email” database. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |

**Unit Test 5: Set Crypto Buy/Sell**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Results** | **PASS** | **FAIL** |
| **Expected**  **Result** | Select buy or sell and select what crypto tickers and prices one wants to set alerts for. Press “Set” and these cryptos shall appear in the crypto “email” database. | **X** |  |
| **Actual**  **Result** | Same as expected. |  |  |