**Currency Converter**

**University of Maryland Global Campus**

**CMSC 495 7981 Current Trends and Projects**

Group 4: Justin Miller, Mike Yacht, Ayao Adanto, Brandon Tennyson

Test Plan

Revision 3

April 19, 2020

**Revision Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Revision Number | Description | Revisor | Date |
| 1 | Initial Document | Justin Miller | April 10, 2020 |
| 2 | Group conference on document and revisions | Entire group through online meeting | April 14, 2020 |
| 3 | Final Revisions | Justin Miller | April 17, 2020 |

**Test Plan**

The test plan is designed to test the Currency Program. It will test for functionality and error handling. For each test case, the test plan will have test case numbers, a reference to the engineering requirement(s), the expected result, a section for the tester to fill in the actual result and a section for the tester to pass/fail the test case. The goal is to test all aspects of the program and find out where it is going to break. Testing will start after the first week of development. Testing will only be finished after the final product has been tested and has passed.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Number | Requirement Number | Test Description | Expected Result | Actual Result | Pass / Fail |
| 1 | 1, 2 | Verify that exchange rates are obtained and stored in file on workstation | File contains three currency code identifier, rate and time stamp |  |  |
| 2 | 1, 2 | Verify that list of three letter code and corresponding country are on file | File contains three letter currency code and corresponding country |  |  |
| 3 | 1, 11 | GUI – select drop down menu for “From” currency, ensure list is displayed | Dropdown menu is populated with three code identifier and country |  |  |
| 4 | 1, 3 | GUI – select drop down menu for “From”, USD should be automatically selected. | USD is already selected as “from” currency. |  |  |
| 5 | 1, 5, 12 | GUI – select drop down menu for “To” currency, ensure list is displayed | Dropdown menu is populated with three code identifier and country |  |  |
| 6 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI – Select “From” and “to” currency, enter amount of 100.00, convert | Converted amounts should be displayed in the output box. |  |  |
| 7 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI – Select “From” and “to” currency, enter amount of 100.75, convert | Converted amounts should be displayed in the output box. |  |  |
| 8 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI – Select “From” and “to” currency, enter amount of -100, convert | Converted amounts should be displayed in the output box. |  |  |
| 9 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI – Select “From” and “to” currency, enter amount of .75, convert | Converted amounts should be displayed in the output box. |  |  |
| 10 | 10 | GUI – Select “From” and “to” currency, enter amount of 0.00, click convert | Error – invalid entry in amount field, you must enter a value greater than 0 |  |  |
| 11 | 10 | GUI – Select “From” and “to” currency, enter amount of 1,234.56, click convert | Error – invalid entry in amount field |  |  |
| 12 | 10 | GUI – Select “From” and “to” currency, enter amount of $1234.56, click convert | Error – invalid entry in amount field |  |  |
| 13 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI – Select “From” and “to” currency, enter amount of 123.4567, click convert | Converted amount should be displayed in outbox with values rounded to 2 decimal places |  |  |
| 14 | 10 | GUI – Select “From” and “to” currency, enter amount of “one thousand", convert | Error – invalid entry in amount field |  |  |
| 15 | 10 | GUI – Select “From” and “to” currency, enter amount of “1.111.11", convert | Error – invalid entry in amount field |  |  |
| 17 | 10 | GUI – Select “from” and “to” currency without entering an amount and convert | Error – an amount must be entered |  |  |
| 18 | 10 | GUI - Choose only a “from” currency code, enter amount “123.45” convert | Error – “to” field required |  |  |
| 19 | 4, 6, 7, 11, 12, 13, 14, 15 | GUI - Choose only a “to” currency code, enter amount “123.45” convert | Conversion should happen from USD to selected “to” currency |  |  |
| 20 | 2 | Turn off internet access, open program. Select “From” and “to” currency, enter 1234.56 and convert | Converted amount should be displayed in outbox using most recent saved data on file |  |  |
| 21 | 2, 10 | Turn off internet access, delete currency datafile, open program. Select “From” and “to” currency, enter 1234.56 and convert | Error message to be displayed stating no data available, please connect to the internet and restart program. |  |  |