**Group 2: Test Plan Document**

**Current Document Revision: 6**

**Currency Exchange Program – Exchange!**

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**CMSC 495 (7980)**

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**Revision History Table**

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| --- | --- | --- | --- |
| **Revision Number** | **Date** | **Description** | **Name** |
| **1** | **Apr 17, 2016** | **Initial Document** | **Jason Dudash** |
| **2** | **Apr 17, 2016** | **Updated case 11,12 Added case 13,14,15** | **Robert Kibler** |
| **3** | **Apr 17, 2016** | **Grammar Revisions**  **Added case 16** | **Brandon Trexler** |
| **4** | **May 1, 2016** | **First test pass** | **Jason Dudash** |
| **5** | **May 4, 2016** | **Added requirement 14 to test case 7 and corrected expected outcome of case 14.** | **Jason Dudash** |
| **6** | **May 4, 2016** | **Second test pass** | **Jason Dudash** |

# Test Plan for the currency exchange program, Exchange!

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| Test Case Number | Requirement Number | Test Description | Expected Result | Actual Result | Pass/Fail |
| 1 | 1,15 | Verify that prior to displaying the GUI for the first time that the rates are obtained and cached for later use. | Conversion rates for all country codes should be obtained and stored on desktop system. | Data was obtained and saved onto my desktop. | Pass |
| 2 | 1,4,11 | From Exchange GUI click on From currency code drop down and verify that From list of currency codes have been obtained and displayed. | Drop down list should display a list of currency codes should display | Drop down list had the list of curreny codes. | Pass |
| 3 | 1,5,11 | From Exchange GUI click on To currency code drop down and verify that To list of currency codes have been obtained and displayed. | Drop down list should display a list of currency codes should display | Drop down list had the list of currency codes. | Pass |
| 4 | 1,2,3,4,5,6,7 | From Exchange GUI select a From and a To currency code and enter the amount 10.00 to be converted. | Converted amount should be displayed | Choose USD and EUR and entered amount of 10.00 and 8.73 was returned | Pass |
| 5 | 1,2,3,4,5,6,7 | From Exchange GUI select a From and a To currency code and enter the amount 10.50 to be converted. | Converted amount should be displayed. | Choose USD and EUR and entered amount of 10.50 and 9.16 was returned | Pass |
| 6 | 1,7,9 | From Exchange GUI select a From and a To currency code and enter the amount 2.0 to be converted. | The source and age of data used is displayed. | Source and age of data used is displayed. | Pass |
| 7 | 1,7,8,10,14 | From Exchange GUI select a From and a To currency code and enter the amount 5.0 to be converted. | The conversion rate should be displayed. Determine accuracy of the converted amount displayed. | Conversion rate is displayed. Compared results to result from Google currency exchange. | Pass |
| 8 | 1,2,3,4,5,13 | From Exchange GUI select a From and a To currency code and enter the amount 100 to be converted. | A converted amount should be displayed for each number entered. | A converted amount was displayed for each number entered. | Pass |
| 9 | 1,2,3,4,5,15 | Turn off internet access to PC. From Exchange GUI select a From and a To currency code and enter the amount 11 to be converted. | A converted amount should display using the data stored on the PC. | Turned off WiFi and entered 11 and converted rate displayed. | Pass |
| 10 | 1,2,3,4,5,6 | Turn off internet access to PC. Delete Conversion rate database. Access the Exchange GUI. | An error message should display noting that no conversion rates are currently available. | Warning messages displayed noting internet down and database empty. | Pass |
| 11 | 1,2,3,4,5,6 | Choose only a From currency code | User should not be allowed to access the amount field. | Not possible for user not to select a To currency code. | Pass |
| 12 | 1,2,3,4,5,6, 13 | From Exchange GUI select a From and a To currency code and enter an amount one digit at a time. | As digits are added the currency amount will change. | Entered 10 and saw covereted amount for each digit. | Pass |
| 13 | 1,3,7 | Attempt to enter a non-number character into the input box | Pressing a non-number key will not enter anything into the input field | Entered text and it does show in the From amount field and the To amount does not change. | Pass |
| 14 | 1,3,7 | Attempt to enter a decimal value with a TO currency selected that does not have decimal values | The input field will allow decimals but the output field will not display decimals. | The input field allowed decimals. No decimals displayed | Pass |
| 15 | 1,3,7 | Attempt to enter 3 or more decimal values into the input field | The input field will not allow a third decimal place to be entered | Not able to enter more than 3 decimal places. | Pass |
| 16 | 1,2,3,4,6,7,8,  9,12 | Turn off the internet to the PC. Change all the rates in the ExchangeRateDB to 24+ hours old. From Exchange GUI select a From and a To currency code and enter the amount 10.50 to be converted. | The database will complete the conversion without internet access but the GUI will warn the user that the data is inaccurate and should not be used. | Kept rates in database for a day. Turned off WiFi and ran application. The GUI shows the rate in red along with a message of age greater than 1 day. | Pass |
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