**Currency Converter**

**University of Maryland Global Campus**

**CMSC 495 7981 Current Trends and Projects**

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

Project Requirements

Revision 3

March 23, 2020

**Revision Table**

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| --- | --- | --- | --- |
| Revision Number | Description | Revisor | Date |
| 1 | Initial Document | Justin Miller | March 21, 2020 |
| 2 | Added requirements | Entire group through online meeting | March 26, 2020 |
| 3 | Added link to API | Justin Miller | April 21, 2020 |
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**Requirement Table**

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| 1 | The program will obtain real time currency rates via the web from API:  https://openexchangerates.org |
| 2 | Currency rates will be stored with a timestamp of their last update |
| 3 | Base currency will be normalized on the USD |
| 4 | Shall require user to type value of currency in text box |
| 5 | Shall require user to select the target currency type (to) |
| 6 | Press a button “Convert” to calculate the target currency value |
| 7 | Display converted currency value (target currency) |
| 8 | Accept decimal currency value (2 decimal point) |
| 9 | The system shall support workstation-based GUI |
| 10 | The system shall have robust error checking and logging |
| 11 | Drop down menu for “from” currency |
| 12 | Drop down menu for “to” currency |
| 13 | Menus shall display 3 letter code and full name of currency. IE: US Dollars (USD) |
| 14 | GUI shall display output in text area |
| 15 | Output shall be in format of input amount, from currency, =, output amount, to currency.  500.00 USD = 822.73 AUD |