**Group 2: Interface Control Document**

**Current Document Revision: 1**

**Currency Exchange Program – Exchange!**

**Reginald Carey, Jason Dudash, Robert Kibler, Brandon Trexler**

**University of Maryland: University College**

**CMSC 495 (7980)**

**April 14, 2016**

**Revision History Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision Number** | **Date** | **Description** | **Name** |
| **1** | **Apr 14, 2016** | **Initial Document** | **Robert Kibler** |
| **2** | **Apr 17, 2016** | **Added CurrencyCode and GUI subsystem info** | **Jason Dudash** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# ICD for ExchangeRateWebService Subsystem

Data between ExchangeRateWebService and finance.yahoo.com

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **TYPE** | **Value Range** | **Default Value** |
| CurrencyCodes | Stream | UTF-8 Char | N/A |
|  |  |  |  |

Data between ExchangeRateWebService and CurrencyConversionLogic

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **TYPE** | **Value Range** | **Default Value** |
| CurrencyCodes | List<CurrencyCode> | 0-180 objects | Empty List |
| FromRate | String | 3 char string | “” |
| ToRate | String | 3 char string | “” |
| ReturnRate | Double | 0 – 1.7x10^308 | 0 |

ICD for CurrencyCode Subsystem

Data between CurrencyCode and CurrencyConversionLogic

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| CurrencyCode | String | 3 char string | Null |
| Name | String | 40 char string | Null |
| SmallestDenomination | Boolean | True or False | False |
|  |  |  |  |

ICD for GUI Subsystem

Data between GUI and CurrencyConversionLogic

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| FromCurrencyCode | String | 3 char string | USD |
| ToCurrencyCode | String | 3 char string | EUR |
| Amount | Double | 0 – 1.7x10^308 | 1 |
| CurrencyCodes | List<CurrencyCode> | 0-180 objects | Empty List |
| ReturnRate | Double | 0 – 1.7x10^308 | 0 |
|  |  |  |  |