**Interface Control Document**

**Requirements:**

|  |  |
| --- | --- |
| **Req #** | **Requirement Text** |
| **1** | This application shall have a login page |
| **2** | This application shall allow unique log-in usernames |
| **3** | This application shall not allow more than one user to have the same username |
| **4** | This application shall not save usernames in plaintext |
| **5** | This application shall force users to accept the user agreement before logging in |
| **6** | This application shall allow the user to log out and end their session |
| **7** | This application shall allow users to transfer money between accounts |
| **8** | This application shall allow users to see their transaction history |
| **9** | This application shall allow users to see their potential interest earnings |
| **10** | This application shall update interest based on a 30-day average of their account balance in accordance with their account type |
| **11** | This application shall have a menu allowing the user to navigate |
| **12** | This application shall use a database to hold usernames and passwords |
| **13** | This application shall use a database to hold the user accounts |
| **14** | This application shall allow users to have both savings and checking accounts |
| **15** | This application shall allow users to view their balance |

ICD for the Microwave sub-systems:

Data between the GUI and the Session Manager

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| loginName | String | 0-12 characters | null |
| loginPassword | String | 0-18 characters | null |
| SQL\_loginName | String | 6 characters | group3 |
| SQL\_loginPassword | String | 11 characters | Group3SQLPw! |
| balance | String | 4+ characters | 0 |
| verifyLogin | Boolean | True, False | false |
| transactionHistory | String | 4+ characters | Empty string |
| transferMessage | String | 4+ characters | Empty String |

Data between the Session Manager and the Account Database

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| connection | Connection | One valid Connection Object | null |
| results | Result | One valid Result set | null |

Data between Interest Calculator and Account Database

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| connection | Connection | One valid Connection Object | null |
| results | Result | One valid Result set | null |

Data between GUI and Interest Calculator

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Value Range** | **Default Value** |
| loginName | String | 0-12 characters | null |
| loginPassword | String | 0-18 characters | null |