**University of Maryland Global Campus**

**Library Management System (LMS)**

**Interface Control Document**

**CMSC 495 7380**

**16 April 2023**

**Version 1.5**

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **REVISION** | **DATE** | **DESCRIPTION** | **Author** |
| 1.0 | 4/12/2023 | Initial Document Creation | Ben Kus |
| 1.1 | 4/13/2023 | Revisions Of Interface Control Document | Ben Ramos |
| 1.2 | 4/14/2023 |  | Brandon Durham |
| 1.3 | 4/14/2023 |  | Ben Kus |
| 1.4 | 4/15/2023 |  | Ben Ramos |
| 1.5 | 4/16/2023 |  | Ben Ramos  Brandon Durham  Ben Kus |

Data between Administrator Subsystem and Login / Logout UI Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Administrator Subsystem | Login / Logout UI Subsystem | UsernameLogin | String | “Any String Minimum of 5 Characters Maximum of 30 Characters” | “Blank String” |
| Administrator Subsystem | Login / Logout UI Subsystem | PasswordLogin | String | “Any String  Minimum of 5 Characters Maximum of 30 Characters” | “Blank String” |
| Administrator Subsystem | Login / Logout UI Subsystem | Logout | Boolean | True False | False |
| Login / Logout UI Subsystem | Administrator Subsystem | FailedLogin | String | “Username or Password Failed to Login” | “Username or Password Failed to Login” |

Data between Login / Logout UI Subsystem and System UI Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Login / Logout UI Subsystem | System UI Subsystem | SuccessfulLogin | Boolean | True False | False |
| System UI Subsystem | Login / Logout UI Subsystem | LogoutConfirmation | String | “Are you sure you want to Logout?” | “Are you sure you want to Logout?” |

Data between System UI Subsystem and Search Book Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| System UI Subsystem | Search Book Subsystem | SearchBookButton | Boolean | True False | False |

Data between System UI Subsystem and Checkout Book Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| System UI Subsystem | Checkout Book Subsystem | CheckoutBookButton | Boolean | True False | False |

Data between System UI Subsystem and Add/Remove Book Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| System UI Subsystem | Add/Remove Book Subsystem | AddBookButton | Boolean | True False | False |
| System UI Subsystem | Add/Remove Book Subsystem | RemoveBookButton | Boolean | True False | False |

Data between Search Book Subsystem and Database Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Search Book Subsystem | Database Subsystem | SearchBookInput | String, or String, | “Any String Any Length”, “Any String Any Length” | “Blank String”, “Blank String” |

Data between Checkout Book Subsystem and Database Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Checkout Book Subsystem | Database Subsystem | CheckoutBookInput | Integer | 10 or 13 | 0000000000 |

Data between Checkout Book Subsystem and Database Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Add/Remove Book | Database Subsystem | AddBookInput | String, String, Integer | “Any String Any Length”, “Any String Any Length”, 10 or 13 | “Blank String”, “Blank String”, 0000000000 |
| Add/Remove Book | Database Subsystem | RemoveBookInput | Integer | 10 or 13 | 0000000000 |

Data between Database Subsystem and System UI Subsystem:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **From** | **To** | **Name** | **Type** | **Value Range** | **Default Value** |
| Database Subsystem | System UI Subsystem | DatabaseResults | String, String, Integer | “Database Title String”,  “Database Author String”,  Database ISBN 10 or 13 Number | “Blank String Title”, “Blank String Author” 0000000000 ISBN |
| Database Subsystem | System UI Subsystem | EmptyResults | String | “No Book Found” | “No Book Found” |

**Diagram

Description automatically generated**