**University of Maryland Global Campus**

**Library Management System (LMS)**

**Test Plan**

**CMSC 495 7380**

**18 April 2023**

**Version 1.5**

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**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **REVISION** | **DATE** | **DESCRIPTION** | **Author** |
| 1.0 | 4/12/2023 | Initial | Ben Ramos |
| 1.1 | 4/13/2023 | Addition of Add/Remove Test Cases | Brandon Durham |
| 1.2 | 4/15/2023 | Addition of Issuing Book Test Cases | Brandon Durham |
| 1.3 | 4/17/2023 | Addition of Login Test Cases and Book Search Test Cases | Ben Ramos |
| 1.4 | 4/18/2023 | Modification of Test Cases | Ben Kus |
| 1.5 | 4/18/2023 | Document Modification | Ben Ramos  Ben Kus  Brandon Durham |

**Test Plan**

**Blurbs**

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| --- | --- | --- | --- | --- | --- |
| **Test Case Number** | **Requirement Number** | **Test Description** | **Expected Results** | **Actual Result** | **Pass/Fail/Comments** |
| 1 | 1 | Administrator will open application and will be presented with a login screen with Username and Password Blocks | The application will open, and a login window will be displayed with User Name and Password |  |  |
| 2 | 1,2 | Administrator will enter login information and be brought to the System UI Page and be presented with admin function | User Name and Password are entered and the Admin Page will display for the user |  |  |
| 3 | 1 | Administrator will enter incorrect Username and Password. The system will recognize an incorrect entry (Password) and be given a unsuccessful login display | When the incorrect information is entered a unsuccessful entry will be display and the user will have to re-enter login information |  |  |
| 4 | 3 | Once logged in as an admin\* into the LMS, check out a book by providing a Book ID. | The book is checkout and viewable within the Issued Books table with status updated. |  |  |
| 5 | 3 | Error handling for test case 3. If a book trying to be checked out isn’t available. | Display a message saying the book isn’t available. |  |  |
| 6 | 4 | While issuing a book, the borrowers Full Name, Phone, Email, and Address will be entered | Input Blocks for the Borrowers’ information will be present and allow for input to be entered. |  |  |
| 7 | 4 | While entering the borrower’s input, the application will recognize incorrect symbols entered in to the name block | The application will recognize symbols (i.e., @$%&\*) that are entered in the block and provide an error |  |  |
| 8 | 5 | Once logged in as an admin and after clicking the search book button, provide a Book ID to then find/ display the corresponding book. | The book with the correct ID is displayed after search function is completed. |  |  |
| 9 | 5 | Error handling for test case 4. What if the Book ID entered isn’t found? | Display a message saying the book with that ID isn’t found or in the system. |  |  |
| 10 | 6 | Error handling for test case 2 if a book trying to be removed doesn’t exist. | Display a message saying there isn’t a book with that ID. |  |  |
| 11 | 6 | Error handling for test case 1. Adding a book that’s already in the system. | Display a message saying that book is in the system already. |  |  |
| 12 | 7 | The logout function will be clicked and log the administrator out of the application. | After logging out of the application the administrator will be brought back to the login display and a successful logout message is displayed |  |  |
| 13 | 7 | Error handling for test case 1. Adding a book that’s already in the system. | Display a message saying that book is in the system already. |  |  |
| 14 | 7 | Error handling for test case 1. Adding a book that’s already in the system. | Display a message saying that book is in the system already. |  |  |