**University of Maryland Global Campus**

**Library Management System (LMS)**

**Test Plan**

**CMSC 495 7380**

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**Version 1.6**

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**Revision History**

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| --- | --- | --- | --- |
| **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 |
| 1.6 | 4/24/2023 | Modification to Test Description (2-11)  Modifications to the Test Plan Description | Ben Ramos |
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**Test Plan**

The purpose of this Test Plan is to walk through each of the project requirements to test and display the functionality of each requirement. A series of test cases will walk through various application functions, starting with login and ending with logging out. In the description, we provide what information will be input into the application and the expected and actual results. This test plan reflects normal operational functions and several error cases.

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| --- | --- | --- | --- | --- | --- |
| **Test Case Number** | **Requirement Number** | **Test Description** | **Expected Results** | **Actual Result** | **Pass/Fail/Comments** |
| 1 | 1 | The administrator will open the 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 Username and Password |  |  |
| 2 | 1,2 | Administrator will enter login information and be brought to the System UI Page and be presented with the admin function  **Input:**  ***Username: Admin1***  ***Password: GummyBear973!@!@*** | Username and Password are entered, and the “Admin Page” will display for the user |  |  |
| 3 | 1 | The administrator will enter an incorrect Username and Password. The system will recognize an incorrect entry (Password) and be given an unsuccessful login display  **Input:**  ***Username: AdminOne***  ***Password: GummyBear973!@!@*** | When incorrect information is entered an unsuccessful entry will be displayed and the user will have to re-enter login information |  |  |
| 4 | 2,3 | Once logged in as an admin into the LMS, will click on the book “Check Out” button and be brought to the checkout page. The admin will check out a book by providing a Book ID or ISBN.  **Input:**  ***ISBN: 978-1-4028-9462-6*** | The book is checked out and viewable within the Issued Books table with the status updated. |  |  |
| 5 | 3 | An admin is trying to check out a book that isn’t available. The admin will enter the title of the book or author.  **Input:**  ***ISBN: The Catcher the Rye (missing “in”)*** | Display a message saying the book isn’t available or cannot be found |  |  |
| 6 | 2,4 | From the system UI display, the admin will click on the “Issue Book” button and display an Issue book page While issuing a book, the borrower’s Full Name, Phone, Email, and Address will be entered  **Input:**  ***Title: Catcher in the Rye***  ***ISBN: 9780316769532***  ***Full Name: Rose \*ukater***  ***Phone: 867-5309***  ***Email: heartoftheocean@gmail.com***  ***Address: 400 Titanic Ave, New York, NY 10002*** | Input Blocks for the Borrowers’ information will be present and allow for input to be entered.  On the display:  Title: Catcher in the Rye  ISBN: 9780316769532  Full Name: Rose Bukater  Phone: 867-5309  Email: heartoftheocean@gmail.com  Address: 400 Titanic Ave, New York, NY 10002 |  |  |
| 7 | 4 | While entering the borrower’s input, the application will recognize incorrect symbols entered in the name block. | The application will recognize symbols (i.e., @$%&\*) that are entered in the block and provide an error message |  |  |
| 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.  **Input:**  ***ISBN: 9780743273565*** | The book with the correct ID is displayed after the search function is completed.  On the display:  Title: The Great Gatsby  Author: F. Scott Fitzgerald  ISBN: 9780743273565 |  |  |
| 9 | 5 | The admin will enter a Book ID or ISBN for a book that will not be available  **Input:**  ***ISBN: 1054125874521*** | Displays a message saying the book with that ID isn’t found or in the system. |  |  |
| 10 | 6 | The admin will add a book that currently doesn’t exist in the library  **Input:**  ***Title: Valley of the Dolls***  ***Author: Jacqueline Susann***  ***ISBN: ‎978-0802125347*** | A message will be displayed that the book was added and the book information will be displayed |  |  |
| 11 | 6 | The admin will remove a book that currently exists in the library  **Input:**  ***Title: Anna Karenina***  ***Author: Leo Tolstoy***  ***ISBN: ‎978-0143035008*** | A message will be displayed that the book was removed and the book information will be displayed |  |  |
| 12 | 6 | If a book trying to be removed doesn’t exist. The admin will enter a Book ID or ISBN for a book that will not be found  **Input:**  ***Title: The Brothers Karamazov***  ***Author: Fyodor Dostoevsky***  ***ISBN: 978-1593080457*** | Display a message saying there isn’t a book with that ID. |  |  |
| 13 | 6 | Adding a book that’s already in the system. The admin will enter a Book ID or ISBN for a book that is already in the system  **Input:**  ***Title: Catcher in the Rye***  ***Author: J. D. Salinger***  ***ISBN: 9780316769532*** | Display a message saying that the book is in the system already. |  |  |
| 14 | 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 |  |  |