

TEST CASE DOCUMENT

OVERVIEW

This document outlines the test cases for the Library Management System (LMS), ensuring that the system functions correctly and meets the defined requirements for accuracy, usability, and security.

| Test Case ID | Description | Precondition | Steps | Expected Result | Status |
|--------------|----------------------------------|---|---|---|---------|
| TC-001 | User Login | User has an account | 1. Open the system 2. Enter credentials 3. Click login | User is logged in successfully | Pending |
| TC-002 | Book Borrowing | User is logged in and book is available | 1. Search for a book 2. Click 'Borrow' 3. Confirm borrowing | Book is marked as borrowed and assigned to the user | Pending |
| TC-003 | Book Returning | User has a borrowed book | 1. Navigate to borrowed books 2. Click 'Return' 3. Confirm return | Book is marked as available again | Pending |
| TC-004 | Book Search & Filter | User is logged in | 1. Enter book title or author 2. Apply filters (if needed) | System displays matching books | Pending |
| TC-005 | Book Reservation | User is logged in, book is unavailable | 1. Search for an unavailable book 2. Click 'Reserve' | Book is added to the user's reservation list | Pending |
| TC-006 | Due Date & Overdue Notifications | User has a borrowed book | 1. Borrow a book 2. Let the due date pass | User receives overdue notification | Pending |
| TC-007 | User Role & Permissions | User is not an admin | 1. Attempt to access admin panel | User is denied access | Pending |
| TC-008 | Security & Authentication | User is not logged in | 1. Attempt to access book borrowing feature | User is redirected to login page | Pending |

ASSUMPTIONS

- Users have an active internet connection for system access.
- The system is integrated correctly with the database and authentication services.
- Test cases will be executed on multiple devices to ensure compatibility.

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