

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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