Library Management System

Manual Testing Report

01. Authentication and login

Test Case	Description	Steps	Expected Result	Actual Result	Status
TC 1.1	**Accessing to root page**	Navigate to `http://127.0.0.1:8000/`.	Redirected to the Login page (`/login`).	Redirected successfully.	**PASS**
TC 1.2	**Customer Registration**	1. Navigate to /register 2. Fill fields 3. Submit.	User account created with Redirected to the relevant index.	User created, redirected to dashboards successfully.	**PASS**
TC 1.3	**Librarian Login**	1. Log in as librarian Navigate to books.	Login successful. Redirected to the destination	Logs in as a librarian	**PASS**
TC 1.4	**Customer Login**	1. Log in as a customer 2. Navigate to /books	Login successful. Redirected to /books.	Login successful. Index page loads.	**PASS**
TC 1.5	**Unauthorized Access**	As Customer, navigate to the protected Add Boo	Redirected to /books with an "Unauthorized access" error message.	Cannot test due to 404 error!	**BLOCKED**
TC 1.6	**Logout Function**	Click the "Logout" button.	User logged out. Redirected to /login.	Logout successful.	**PASS**

02.Book Functions

Test Case	Description	Steps	Expected Result	Actual Result	Status
TC 2.1	**View Books Index**	Navigate to /books while logged in.	Book list table is displayed with Title, Author, ISBN, Year, and Stock columns.	List loads correctly and shows empty table if no data.	**PASS**
TC 2.2	**Search by Title/Author**	In the Search bar, enter a title	Only books matching the search term are displayed.	Search logic is correctly applied and the filtering successful.	**PASS**

03.Borrow books

Test Case	Description	Steps	Expected Result	Actual Result	Status
TC 3.1	**Borrow Book Success**	1. Log in as Customer. 2. Click Borrow on a book with stocks greater than zero	No of books decreases by 1 in the database. Success message displayed.	Decrement logic executes successfully.	**PASS**
TC 3.2	**Borrow Book Failure (Stock)**	Click borrow on a book where stock is 0.	Error message: "This book is currently out of stock..."	Logic correctly blocks the loan and displays the error.	**PASS**
TC 3.4	**View My borrowed books**	Navigate to /myloans	Loans dashboard loads, showing active and returned loans.	Loans are displayed correctly. The Return Book button is visible for active loans.	**PASS**
TC 3.5	**Return Book Success**	1. Navigate to /myLoans 2. Click Return Book on an active loan.	Stock quantity increases by 1 and the return date is set in the database.	Code executes successfully. Stock updated and redirects to	**PASS**