

Manual Testing Report to Ensure Functionality

1. User Registration:

- Test that users can register with valid and invalid data.
- Verify email confirmation is required for new users.

2. Book Management:

- Add a new book, update book details, and delete a book.
- Verify that books are listed correctly in the inventory.

3. Borrowing Books:

- Test the process of borrowing and returning a book.
- Ensure that overdue fines are correctly calculated.

4. Reservation of Books:

- Test reserving a book that is currently unavailable.
- Check if the user is notified when the book becomes available.

5. Fine Payment:

- Test the payment process for fines.
- Ensure that payment records are stored correctly.

6. User Role Permissions:

- Verify that only admins can manage users and roles.
- Ensure that members cannot access restricted functionalities.

7. System Performance:

- Simulate multiple users accessing the system to test for performance bottlenecks.

8. Security Tests:

- Attempt SQL injection, XSS, and other security vulnerabilities to ensure the system is secure.

9. Report Generation:

- Test the generation of reports (e.g., overdue books, fines, borrowing history).
- Verify that reports are accurate and contain all necessary information.