

Library Management System

Test Cases	Test Case ID/Operator Value	Trials	Test Steps	Expected Result	Actual Results	Status (Pass/Fail)	Comments
1. Adding an Book	Add an author with a first name, last name, and nickname	1	User entered first name, last name, and/or nickname.	Author is successfully added to the system.	Same as expected	Pass	Result as Expected
	Add an author with a duplicate nickname	2	User entered an author with a duplicate nickname.	Author is not successfully added to the system.	Same as expected	Fail	System rejected the addition of author
	2. Add a book with an ISBN, genre,availability, and title	1	User entered ISBN, genre, availability, and title	Book is successfully added to the system.	Same as expected	Pass	Result as Expected
	Add a book with a Duplicate ISBN format	2	User entered book with an duplicateISBN format	Book is not successfully added to the system	Same as expected	Fail	ISBN already exists.
2. Registering a Patron (Student, Faculty,General)	Add a Patron with an patron name, email, phone number, and student ID or Department.	1	User entered patron name, email, phone number, and student ID or department	Patron is successfully added to the system	Same as expected	Pass	Result as Expected
	Add a Patron with missing fields (patron name, email, phone number, and	2	User entered the patron's name, email, phone number, and	Patron is not successfully added to the system	Same as expected	Fail	System rejected registering the Patron.

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	student ID or Department)		omitted the student Id				
3. Checking Out a Book	Get the Patron Id and ISBN of the book to check out	1	User entered patron ID and ISBN of the book to check out.	Book successfully checked out.	Same as expected	Pass	Result as Expected
	Get the Patron Id and ISBN of the book to check out.	2	User entered patron ID and non-existing ISBN of the book to check out.	Book is not found to checked out.	Same as expected	Fail	Error! Book is not found to checked out.
	Get the Patron Id and ISBN of the book to check out.	3	User entered ISBN and non-existing of the book to check out.	Book is not found to checked out.	Same as expected	Fail	Error! Book is not found to checked out
	Get the Patron Id and ISBN of the book to check out.	4	User entered ISBN and non-existing Patron Id of the book to check out.	Book is not found to checked out	Same as expected	Fail	Error! Patron not found.
4. Returning Out a Book	Get the ISBN of the book to check in	1	User entered ISBN of the book to check in	Book is successfully returned.	Same as expected	Pass	Result as Expected
	Get the ISBN of the book to check in	2	User entered invalid ISBN of the book to check in	Book is not successfully returned.	Same as expected	Fail	Error! Book is not found.

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	Get the ISBN of the book to check out.	3	Check if the book is marked as available again.	Book is available.	Same as expected	Pass	Result as Expected
6. Printing All Books/Patrons /Borrowing history /updating	Update book details with invalid data (empty title, ISBN etc.)	1.	User entered book details with invalid data	Book is not Updated	Same as expected	Fail	Error! Updating the Book.
	Choose the option to print all books.	2	User chosen the option to print all books.	Verify whether the books are printed	Same as expected	Pass	Result as Expected
	Choose the option to print all patrons registered	3	User chosen the option to print all Patrons registered	Verify whether the patrons printed are registered	Same as expected	Pass	Result as Expected
	Check borrowing history.	4	User entered the patron ID to view the borrowing history.	Verify that the borrowing history of the patron is displayed.	Same as expected	Pass	Result as Expected
5. Transaction	Choose the option to print all library transactions.	1	User chosen the option to print all Transaction.	Verify that the list of all transactions in the library is displayed.	Same as expected	Pass	Result as Expected

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