**TESTING OF LIBRARY MANAGEMENT SYSTEM**

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| **NAME** | **DESCRIPTION** | **ASSUMPTION** | **STEPS &**  **CONDITIONS** | **ACTUAL**  **RESULTS** | **EXPECTED**  **RESULTS** | **COMMENTS** |
| **LOGIN** | Validation of  user | User exists | A) [valid]  1.enter  Username.  2.enter  Password.  B) [valid]  1.enter  Username .  2.enter  Password .  A) [invalid]  1.enter Invalid  Username.  2.enter invalid  Password .  B) [invalid]  1.enter invalid  Username.  2.enter invalid  Password . | Login &  Open  Session  Display  Erro r  Display  Error  Login &  Open  Session | Login &  Open  Session  Login &  Open  Session  Error  Message  Error  Message | Pass  Fail    Pass  Fail |
| **SEARCH,**  **RESERVE** | Search for  Book  Availability | User logged  In. | A)[valid]  1.search the  Book .  2.reserve it  Available . | Reserve  To  Database | Reserve  To  Database | Pass |
|  |  |  | B) [valid]  1.search the  Book.  2.reserve it  Available . | Not reserve  To  Database | Reserve  To  Database | Fail |
| **CHECK**  **ACCOUNT** | Check  Existence  Of user  Account | Librarian  Logged  In | A)[valid]  1.enter user  Id  (correct).  B)[valid]  1.enter user  Id  (incorrect).  [invalid]  1.enter user  Id  (correct). | Show  Account  Status  Account  Not  Found  Account  Not  Found | Show account  Status  Account  Not  Found  Show  Account  Status | Pass  Pass  Fail |
| **MANAGE**  **BOOKS** | Manage  Book  stocks | Librarian  Logged  In | A)[valid]  1.no books  In stocks  Add books.  B)[valid]  1.book taken  -update  book .  A)[invalid]  1.no books in  Stocks  Add books. | Book added  To database  Book count  Updated  Book not  Added to  Database | Book added  To  Database  Book count  Updated  Book  added to  Database | Pass  Pass  Fail |
|  |  |  | B)[invalid]  1.book taken  Update book. | Book count  Not updated | Book count  Updated | Fail |
| **MANAGE**  **ISSUE/**  **RETURN** | Manage users  Issue /  Return | Librarian  Logged in  User exists | [valid]  1.user can take  Any more  Books.  2.user can’t take  Any more  Books.  3.user return  a  Book  taken.  4.user return  a book not  taken.    [invalid]  1.user can  take  Any more  Books.  2.user can’t  Take any more  Books  3.user return a  Book taken.  4.user return a  Book not  Taken. | Issue book  Don’t  Issue book  Accept book  Update  Database  Reject  Book  Display  Error  Issue  Book  Reject book  Accept book  Update  Database | Issue book  Don’t  Issue book  Accept  Book  Update  Database  Reject  Book  Issue  Book  Don’t issue  book  accept book  updated  reject  book | Pass  Pass  Pass  Pass    Fail  Fail  Fail  Fail |
| **MANAGE**  **ACCOUNT** | Manage user  account | Librarian  Logged in user  Exists. | A)[valid]  1.return date  Exceed .  due date.  2.update /  Delete user  Account.  A)[invalid]  1.return  date  Exceed  Due date.  2.update /  Delete user  Account . | Collect fine  Reflect  Change in  Database  Accept  Book  Without  Fine  Display  Error | Collect fine  Reflect  Change in  Database  Collect  Fine  Reflect change in  Database | Pass  Pass    Fail  Fail |
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