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| **Test Case #** | **Use Case** | **Function Being Tested** | **Initial System State** | **Input** | **Expected Output** | **Pass/Fail** |
| 1 | Login | User enters user name,  password and presses the login button. | The user should be registered first. | User name and password. | If the login fails, system should show a message indicating it.  If the user name and password verified, members and librarians are directed to the different pages. | Pass |
| 2 | Log out | The member/librarian clicks on the logo ut button. | The member/librarian should be logged in. | N/A | Members and librarians are directed to main page after login. | Pass |
| 3 | Add book | The librarian enters the book information and clicks on create new book button. | The librarian should be logged in. | The book’s information | The librarian adds the book to the system properly. | Pass |
| 4 | Delete book | The librarian enters the book’s information and click on the delete book button. | The librarian should be logged in and the book should already be in the system. | The book’s information | The librarian deletes the book from the system properly. | Pass |
| 5 | Update book | The librarian enters the book’s information and clicks on the edit book button. | The librarian should be logged in and the book should already be in the system. | The book’s information | The librarian updates the book properly. | Pass |
| 6 | Add user | The librarian enters the user information and clicks on create new member button. | The librarian should be logged in. | The user’s information | The librarian adds the user to the system properly. | Pass |
| 7 | Delete user | The librarian enters the user’s information and click on delete member button. | The librarian should be logged in and the user should already be in the system. | The user’s information | The librarian deletes the user from the system properly. | Pass |
| 8 | Update user | The librarian enters the user’s information and clicks on the edit member button. | The librarian should be logged in and the user should already be in the system. | The user’s information | The librarian updates the user’s information properly. | Pass |
| 9 | Add a name to book waiting list | The member clicks on the add name to waiting list button to loan the book when it is available. | The member should be logged in and the book that the member wants to borrow should have been borrowed by another user. | N/A | The member adds her/his name to waiting list properly. | Pass |
| 10 | Search for books | The user enters the book’s information and press search button | N/A | The book’s information | The user finds the book in a short time. | Pass |
| 11 | View books | The member clicks on the view my books button and sees her/his loaned books. | The member should be logged in. | N/A | If member did not borrow any book, then book(s) cannot be viewed else the member views her/his books. | Pass |
| 12 | Pay fine | The member should be able to pay his/her fine. | The member should be logged in. Member should have been fined before. | N/A | The member pays fine properly. | Pass |
| 13 | Self-return | The member chooses the book and clicks on return book button. | The member should be logged in and loaned a book before. | N/A | The member gives back the book. | Pass |
| 14 | Self-checkout | The member chooses the book to checkout and clicks on proceed to checkout button. | The member should be logged in and the book should be available. | N/A | The member loans the book and sees the book in her/his book list. | Pass |
| 15 | Notify of Book Being Available | If there are one or more members waiting for the same book, the first one in the list should be notified. | One or more members should have queued for an unavailable book. | N/A | A member gets notified that the book is available for loaning. | Pass |
| 16 | Issue Late Fine | System checks if any member’s book loan has expired. If it detects such a member, it counts the days until the book is returned and multiply the days with 5 TL to specify the total amount. | A member should loan book from the library and member’s book loan period should be expired. | N/A | Member gets fined. | Pass |