



BBM 487 – SOFTWARE ENGINEERING LABORATORY

LIBRARY BOOK LOAN SYSTEM

List of System Test Case Definitions

GROUP II

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Test Name	<Login Test Case>
Use Case Tested	<Login>
Test Case ID	1
Test Description	User should enter username and password. Then, she/he should press the login button. If the user name and password are verified, they are moved to the member page or librarian page. If the login fails, system should show a message indicating it. Then, he/she should be able to enter another user name and password.
Pre-conditions	The user should be registered first.
Post-conditions	Members and librarians log in from the same page but they are directed to different pages after login.
Notes	Members and librarians can login.
Data Required	User name and password (String)

Test Name	<Logout Test Case>
Use Case Tested	<Logout>
Test Case ID	2
Test Description	The member/librarian should click on the logout button. Then, the system should redirect the user to the login page.
Pre-conditions	The member/librarian should be logged in.
Post-conditions	Members and librarians are directed to main page after logout.
Notes	N/A
Data Required	N/A

Test Name	<Add Book Test Case>
Use Case Tested	<Add Book>
Test Case ID	3
Test Description	The librarian should enter the book's information and click on the create new book button.
Pre-conditions	The librarian should be logged in.
Post-conditions	The librarian adds the book to the system properly.
Notes	Only librarians can add a new book.
Data Required	Book's book name, author and barcode (String)

Test Name	<Delete Book Test Case>
Use Case Tested	<Delete Book>
Test Case ID	4
Test Description	The librarian should enter the book's information and click on the delete book button.
Pre-conditions	The librarian should be logged in and the book should already be in the system.
Post-conditions	The librarian deletes the book from the system properly.
Notes	Only librarians can delete book.
Data Required	Book's book name should be entered to delete the book (String)

Test Name	<Update Book Test Case>
Use Case Tested	<Update Book>
Test Case ID	5
Test Description	The librarian should enter the book's information and click on the edit book button. Then, the book's information to be updated should be filled. If there is a book with the same barcode, system will not allow it.
Pre-conditions	The librarian should be logged in and the book should already be in the system.
Post-conditions	The librarian updates the book properly.
Notes	Only librarians can update book.
Data Required	The book's information (book's name, author name or barcode) to be updated should be filled.(String)

Test Name	<Add User Test Case>
Use Case Tested	<Add User>
Test Case ID	6
Test Description	The librarian should enter the user's information and click on the create new member button. If the new member record is already in the database, librarian can't add it again.
Pre-conditions	The librarian should be logged in.
Post-conditions	The librarian adds the new user to the system properly.
Notes	Only librarians can add a new user.
Data Required	User's information (name , surname, username and password) should be entered (String).

Test Name	<Delete User Test Case>
Use Case Tested	<Delete User>
Test Case ID	7
Test Description	The librarian should enter the user's information and click on the delete member button.
Pre-conditions	The librarian should be logged in and the user to be deleted should already be registered.
Post-conditions	The librarian deletes the user from the system properly.
Notes	Only librarians can delete book.
Data Required	Username should be entered to delete the user. (String)

Test Name	<Update User Test Case>
Use Case Tested	<Update User>
Test Case ID	8
Test Description	The user should enter the user's information to be updated and click on the edit member button.
Pre-conditions	The user should be logged in.
Post-conditions	The user updates the user information properly.
Notes	Librarians and members can update the user information.
Data Required	The user's information (user's name, surname, user name) to be updated should be filled.(String)

Test Name	<Add a Name to Book Waiting List Test Case>
Use Case Tested	<Add a Name to Book Waiting List>
Test Case ID	9
Test Description	The member should click on the add name to waiting list button and enter his/her name.
Pre-conditions	The member should be logged in and the book that the member wants to borrow should have been borrowed by another user.
Post-conditions	The member adds her/his name to waiting list properly.
Notes	Only members can adds her/his name to waiting list.
Data Required	The member should enter his/her name. (String)

Test Name	<Search For Books Test Case>
Use Case Tested	<Search For Books>
Test Case ID	10
Test Description	The user should enter the book name or barcode or author name and press search button. If the searched book is not found, user may search for another book.
Pre-conditions	N/A
Post-conditions	The user finds the book in a short time.
Notes	Members, librarians and visitors (unregistered users) can search for books.
Data Required	The user should enter book's name, author name or barcode. (String)

Test Name	<View My Books Test Case>
Use Case Tested	<View My Books>
Test Case ID	11
Test Description	The member should click on the view my books button. If member did not borrow any book, then book(s) cannot be viewed.
Pre-conditions	The member should be logged in.
Post-conditions	The member views her/his books.
Notes	Only members can view her/his books.
Data Required	N/A

Test Name	<Pay Fine Test Case>
Use Case Tested	<Pay Fine>
Test Case ID	12
Test Description	The member should click on the pay fine button and enter credit card password. If the password is not valid (the number of character in the credit card password does not equal to 10), system should give an error.
Pre-conditions	The member should be logged in.
Post-conditions	The member pays fine properly.
Notes	Only members pay fine.
Data Required	Member should enter credit card password (String)

Test Name	<Self-Return Test Case>
Use Case Tested	<Self-Return>
Test Case ID	13
Test Description	The member should click on the self-return button and mark the books as returned.
Pre-conditions	The member should be logged in and loaned a book before.
Post-conditions	The member gives back the book.
Notes	Only members gives back the book.
Data Required	N/A

Test Name	<Self-Checkout Test Case>
Use Case Tested	<Self-Checkout>
Test Case ID	14
Test Description	The member should click on the self-checkout button to loan the from the system. If the book is not available, system should give an error.
Pre-conditions	The member should be logged in and the book should be available.
Post-conditions	The member loans the book and sees the book in the View My Books page.
Notes	Only members can loan book.
Data Required	N/A

Test Name	<Notify of Book Being Available Test Case>
Use Case Tested	<Notify of Book Being Available>
Test Case ID	15
Test Description	If there is one member waiting for the book, he/she should be notified. If there are more than one members waiting for the same book, then the first one in the list should be notified.
Pre-conditions	One or members should have queued for a previously unavailable book.
Post-conditions	A member gets notified that the book is available for loaning.
Notes	Only members are informed.
Data Required	N/A

Test Name	<Issue Late Fine Test Case>
Use Case Tested	<Issue Late Fine>
Test Case ID	16
Test Description	System should check if any member's book loan has expired. If it detects such a member, it should count the days until the book is returned and multiply the days with 5 TL to specify the total amount. Even if there are no members with expired loan periods, system should keep checking everyday.
Pre-conditions	A member should loan book from the library and member's book loan period should be expired.
Post-conditions	Member gets fined.
Notes	N/A
Data Required	N/A