BBM487 -Software Engineering Laboratory

Library Book Loan System
Test Case Descriptions

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1.Login

1.1 – Wrong Credentials For Login
Description: Test for login operation with non-existent user info.
Expected: Error message appears and user could not login.
Pre-conditions: Login window is active.
Post-conditions: Login windows is active with empty forms.

1.2 – Valid Credentials For Login
Description: Test for login operation with a valid user info.
Pre-conditions:User registered and login windows is active.
Post-conditions: Home window for member is active.
Data required: username and password

1.3 – Empty Credentials For Login
Description: Test for login operation with empty user info.
Expected: Error message appears and user could not login.
Pre-conditions: Login window is active.
Post-conditions: Login windows is active with empty forms

2.Pay Fine

2.1 – Pay Fine With Insufficient Money
Description: Test for fine payment operation with insufficient money on account.
Pre-conditions: User must be logged in and have a fine amount more than zero.
Post-conditions: Error message appears.Fine could not be paid.
Data required: User credentials and credit card info.

2.2 – Pay Fine With Enough Money
Description: Test for fine payment operation with enough money on account.
Pre-conditions: User must be logged in and have a fine amount more than zero.
Post-conditions:Fine is paid.User redirected to home page.
Data required: User credentials and credit card info.

3.Self-Checkout

3.1 – Checkout Request For Unavailable Book
Description: Test for checkout operation on a unavailable book.
Pre-conditions: User is logged in and selected a book to checkout.
Post-conditions: Error message appears.Book could not be checked out.
Data required: User credentials and book info

3.2 – Checkout Request For Available Book
Description: Test for checkout operation on a available book.
Pre-conditions: User is logged in and selected a book to checkout.
Post-conditions: Book checked out by user.
Data required: User credentials and book info

4.Search For Books

4.1 – Search Criteria With No Result
Description: Test for search operation with no result.
Pre-conditions: User navigated to search book interface and filled the criteria forms.
Post-conditions:No result with the given criteria.Empty list returns.
Data required: Search query data.

4.2 – Search Criteria With Results
Description: Test for search operation with results.
Pre-conditions: User navigated to search book interface and filled the criteria forms.
Post-conditions:Results returned to search book view.User got what he/she search.
Data required: Search query data.

5.Add to Waiting List

5 – Add to Waiting List
Description: Test for add to waiting list operation.
Pre-conditions: Registered user navigated to selected book's info page or pushed the related button.Book is unavailable.
Post-conditions:User added to waiting list of the selected unavailable book.
Data required: Book info and user credentials.

6.Self Return

6.1 – Self Return with Succesful Scan
Description: Test for self return operation with succesful scan.
Pre-conditions: User is logged in.Scanned book exists in database.
Post-conditions: Book returned to library.
Data required: Book barcode info and user credentials.

6.2 – Self Return with Incorrect Scan
Description: Test for self return operation with incorrect scan.
Pre-conditions: User is logged in.Scanned book doesn't exist in database.
Post-conditions: System waits for another scan.
Data required: Book barcode info and user credentials.

7.View My Books

7.1 – View My Books
Description: Test for view my books operation for member user.
Pre-conditions: User is logged in.Navigated to view my books tab.
Post-conditions: Books associated to user listed.
Data required: User credentials.

8.Logout

8.1 – Logout
Description: Test for logout operation for member user.
Pre-conditions: User is logged in.Pushed the "logout" button on the interface.
Post-conditions: User logged out.
Data required: User credentials.

9.Issue Late Fine

9.1 – Issue Late Fine for Late Book
Description: Test for issue late fine operation for member user..
Pre-conditions: User is logged in.User has a book that is not returned on time.
Post-conditions: User's fine amount increased.
Data required: User credentials.

9.2 – Issue Late Fine for Legal Usage
Description: Test for issue late fine operation for member user with legal usage.
Pre-conditions: User is logged in.User doesn't have a book that is not returned on time.
Post-conditions: User's fine amount did not change.
Data required: User credentials

10.Notify of Book Being Available

10.1 – Notify of Book Being Available
Description: Test for notify operation for member user.
Pre-conditions: User is logged in.User added a book on its waiting list.
Post-conditions: User notified.User deleted from waiting list.
Data required: User credentials and book info.

11.Manipulate Book

11.1 – Manipulate Book That Is Not Exist
Description: Test for manipulate book with a non-existent book.
Pre-conditions: Librarian is logged in.Librarian selected a CRUD operation other than create on a book.
Post-conditions: Error message appears.CRUD operation did not complete.Librarian is on manipulate book page.
Data required: Librarian credentials and book info.

11.2 – Manipulate Book That Exists
Description: Test for manipulate book with a valid book.
Pre-conditions: Librarian is logged in.Librarian selected a CRUD operation other than create on a book.
Post-conditions: CRUD operations takes place on selected book.
Data required: Librarian credentials and book info.

11.3 – Create Book That Already Exists
Description: Test for create book with a valid book.
Pre-conditions: Librarian is logged in.Librarian fills the from and triggers the create operation.
Post-conditions: Error message appears.System asks for another book info to operate.
Data required: Librarian credentials and new book info.

11.4 – Create Book
Description: Test for create book.
Pre-conditions: Librarian is logged in.Librarian fills the from and triggers the create operation.
Post-conditions: Book with the given info created and added to database.
Data required: Librarian credentials and new book info.

12.Manipulate User

12.1 – Manipulate User That Is Not Exist
Description: Test for manipulate user with a non-existent user.
Pre-conditions: Librarian is logged in.Librarian selected a CRUD operation other than create on a user.
Post-conditions: Error message appears.CRUD operation did not complete.Librarian is on manipulate user page.
Data required: Librarian credentials and user info.

12.2 – Manipulate User That Exists
Description: Test for manipulate user with a valid user.
Pre-conditions: Librarian is logged in.Librarian selected a CRUD operation other than create on a user.
Post-conditions: CRUD operations takes place on selected user.
Data required: Librarian credentials and user info.

12.3 – Create User That Already Exists
Description: Test for create user with a valid user.
Pre-conditions: Librarian is logged in.Librarian fills the from and triggers the create operation.
Post-conditions: Error message appears.System asks for another user info to operate.
Data required: Librarian credentials and new user info.

12.4 – Create User
Description: Test for user book.
Pre-conditions: Librarian is logged in.Librarian fills the from and triggers the create operation.
Post-conditions: User with the given info created and added to database.
Data required: Librarian credentials and new user info.