HACETTEPE UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING
BBM 487:SOFTWARE ENGINEERING LABORATORY

Group Number:5

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1.Self Return

<1.1> - <Self Return >:
Description: The user deliver the borrowed book by clicking self return button. Expected result is delivered book's state of available be 1.
Pre-conditions: User must be logged in
Post-conditions: The delivered book get out in the view my book page of user. The book is available.
Data required: User name: valid
              Password: valid
              Choose the borrowed book

<1.2> - <Self Return for invalid book>:
Description: The user try to deliver the not borrowed book by clicking self return button. Expected result is show the user a message: "You must borrow the book firstly."
Pre-conditions: User must be logged in
Post-conditions: There is no change of state of book.
Data required: User name: valid
              Password: valid
              Choose the not borrowed book

<1.3> - <Self return for guest user>:
Description: The user which is called guest try to deliver the not borrowed book by clicking self return button. Expected result is show a message :" The user which is called guest has not permission to do this operation."
Pre-conditions: User must be logged in
Post-conditions: The user which is called guest does not any account. There is no change of state of book.
Data required: Choose the book from guest

 2.Login

<2.1> - <Login Page for correct input>:
Description: The user has to login to the system except to search for books.
User, entered the system to system username and password. If information is true, user entered system.
Expected Output: Welcome 'username'.
Pre-conditions: User open the library system page.
Post-conditions: User entered system.
User name: valid
Password: valid

<2.2> - <Login Page uncorrect input>:

<u>Description</u>: The user has to login to the system except to search for books. When the information is false system given error message.

Expected Output: Wrong username or password or your account has not been activated.

<u>Pre-conditions</u>: User opened the library system page.

<u>Post-conditions</u>: User doesn't entered system.

User name-Password: invalid

3.Search for Books

<3.1> - <Search for Books>:

<u>Description</u>: The user can search for books without logging into the system.

Expected Output: Searching result is 'books information for searching detail'

<u>Pre-conditions</u>: User opened the library system page.

<u>Post-conditions</u>: There is no change of state of book.

4.Pay Fine

<4.1> - <PayFine for sufficient money>:

<u>Description</u>: The user may be able to pay for the delayed books.

Expected Output: Your book debt has been paid.

<u>Pre-conditions</u>: User must be logged in.

<u>Post-conditions</u>: It is seen that the user pays the debt.

<u>Data required</u>: User name: valid

Password: valid

<4.2> - <PayFine for insufficient money >:

<u>Description</u>: The user may be able to pay for the delayed books but the money for the user's account may not be enough.Expected Output: There is not enough money in your account.

<u>Pre-conditions</u>: User must be logged in.

<u>Post-conditions</u>: It isn't seen that the user pays the debt.

<u>Data required</u>: User name: valid

Password: valid

5.Manipulate Customer

<5.1> - <Manipulate Customer>:

<u>Description</u>: Admin can edit user information.Expected Output: User information changed.

<u>Pre-conditions</u>: Admin must be logged in.

<u>Post-conditions</u>: User can be added, updated or deleted

<u>Data required</u>: User name: valid

Password: valid

6.Add name to book waiting list

<6.1> - <Add name to book waiting list>:

<u>Description</u>: The user add name to book waiting list by clicking wait book button. Expected result is the added book's state value is 0(book is not available).

<u>Pre-conditions</u>: User must be logged in

<u>Post-conditions</u>: Change the state of added book is not available. The user see the added book in waiting list.

<u>Data required</u>: User name: valid

        Password: valid

        Add the book which state is available.

<6.2> - <Add name to undefined book waiting list>:

<u>Description</u>: The user try to add name to book which does not in library. Expected result is show a message "The book does not in the library."

<u>Pre-conditions</u>: User must be logged in

<u>Post-conditions</u>: There is no changes of state of books.

<u>Data required</u>: User name: valid

        Password: valid

        Add the book which does not in library

<6.3> - <Add name to book waiting list for guest>:

<u>Description</u>: The user which is called guest try to add name to waiting list by clicking wait book button. Expected result is show a message :" The user which is called guest has not permission to do this operation."

<u>Pre-conditions</u>: User must be logged in

<u>Post-conditions</u>: There is no changes of state of books.

<u>Data required</u>: Add the book waiting list by guest

7.View My Books

<7.1> - <View my books>:

<u>Description</u>: The user can view the self borrowed books by clicking view my book button. Expected result is the show the list borrowed books from user

<u>Pre-conditions</u>: User must be logged in

<u>Post-conditions</u>: The system show the list of books which borrowed from the user.

<u>Data required</u>: User name: valid

        Password: valid

        List the Self borrowed the books

<7.2> - <View my books which is empty list >:
Description: The user can view the self borrowed books by clicking view my book button.
Expected result is the show the message :"You do not have any borrowed books."
Pre-conditions: User must be logged in
Post-conditions: The system show the empty list.
Data required: User does not any borrowed books

<7.3> - <View my books for guest>:
Description: The user which is called guest try to view self borrowed books by clicking view
my book button. Expected result is show a message :"The user which is called guest has not
permission to do this operation."
Pre-conditions: User must be logged in
Post-conditions: There is no changes of state of books.
Data required: View my books for the guest

8.Issue Late Fine

<8.1> - <Issue late fine>:
Description: The system add fine amount to the user account, if the user did not deliver the
book appointed time. Expected result is the system add the fine to the user in the database.
Pre-conditions: User borrowed a book and did not deliver the book appointed time
Post-conditions: User gets fine.
Data required: Control the appointed time and send notification

9.Logout

<9.1> - <Logout>:
Description: User click the "Logout" button.Expected output is user shows the main page.
Pre-conditions: User must be logged in
Post-conditions: User logged out
Data required: -
System ends user's session. And redirect to main page.

10.Notify Of Book Beeing Available

<10.1> - < Notify Of Book Beeing Available >:
Description: If the book is returned by borrowed user system sends a notification to the first
contact on the waiting list.Expected output is system sends notification to user.
Pre-conditions: One user must be self returned the book.
Post-conditions: The user who is first contact in the waiting list is informed.
Data required : -
Control waiting list and send notification.

11. Manipulate book

<11.1> - < Manipulate Book – Create Book >:
Description: When the librarian click "add new book" button and fill the book informations

adds a new book, it saved with the database with the informations. Expected output is librarian receives "book created successfully" message

Pre-conditions: Librarian must be logged in

Post-conditions: Book is created

Data required: -

Librarian must click add create book button and fill all informations.

<11.2> - < Manipulate Book – Update Book >:

Description: When the librarian click "update book" button and change the book informations update book informations in the system. Expected output is librarian receives " book updated successfully" message

Pre-conditions: Librarian must be logged in

Post-conditions: Book is update.

Data required: -

Librarian must click update book button and change book informations.

<11.3> - <Manipulate Book – Delete Book >:

Description: When the librarian click "delete book" button and book delete to the system. Expected output is librarian receives " book deleted successfully" message

Pre-conditions: Librarian must be logged in

Post-conditions: Book is deleted in the system.

Data required: -

Librarian must click delete book button and confirm this.

12.Self Checkout

<12.1> - <Self Checkout >:

Description: User take book with book' barcode number.Expected output is system adds book to user' list and shows user information message.

Pre-conditions: User must be logged in

Post-conditions: User borrow book

Data required: Valid barcode number

<12.2> - <Self Checkout for invalid barcode number>:

Description : User take book with book' barcode number.Expected output is system shows user "invalid barcode please enter the valid barcode" message

Pre-condition : User must be logged in

Post-condition : -

Data required : invalid barcode number

User can't borrow book with invalid barcode.