1-Login

1-1-Registered member

Description:	Entry will be made according to user information.
Pre-conditions:	User information must be entered correctly.
Post-conditions:	User interface must be open.
Data required:	User name(valid) and password(valid)

1-2-Unregistered member

Description:	Entry will be made according to user information.
Pre-conditions:	User information must be entered
Post-conditions:	error message and try to login again
Data required:	User name(valid) and password(valid)

1-3-Invalid username or password

Description:	User enters invalid input and the system sends the error message.
Pre-conditions:	User enters invalid input
Post-conditions:	error message and try to login again
Data required:	username(invalid) and password(invalid)

2-Logout

1-1-Successful logout

Description:	The user clicks on the logout button and exits.
Pre-conditions:	User to click on logout button.
Post-conditions:	THe user is redirected to the login screen
Data required:	

3.Search

3-1-Registered book

Description:	The user searches a book in the database.
Pre-conditions:	User must enter book name.
Post-conditions:	The book he searched for is displayed.
Data required:	The book name(valid)

3-2-Unregistered book

Description:	The user searches a book that is not available in the database.
Pre-conditions:	The user enters the book name.
Post-conditions:	The user is sent an error message that the book could not be found.
Data required:	The book name(valid)

3-3-Invalid input

Description:	The user enters an invalid value in the search text box and receives an error.
Pre-conditions:	The user enters the book name.
Post-conditions:	The user is sent an error message that you have entered invalid input.
Data required:	The book name(invalid)

4-Borrow book

4-1-Successful borrow

Description:	The user borrows a book from the system.
Pre-conditions:	The user should choose a book to borrow.
Post-conditions:	The book is borrowed by the user.
Data required:	

4-2-Overbook

Description:	The user wants to borrow more than three books, receives an error message.
Pre-conditions:	The user should choose a book to borrow.
Post-conditions:	The error message is sent to the user so that you can not borrow more books.
Data required:	

5-Create account

5-1-Successful create account

Description:	The user creates an account.
Pre-conditions:	The user must enter the account information.
Post-conditions:	The user account is created and directed to the user interface.
Data required:	username(valid) , password(valid)

5-2-Invalid input

Description:	The user wants to create an account without entering the required information correctly and receives an error message.
Pre-conditions:	The user enters the information.
Post-conditions:	The error message is sent to the user.
Data required:	username(invalid) or password(invalid)

6-View the books

6-1-Successful view

Description:	User displays all books
Pre-conditions:	User must select books tab
Post-conditions:	The book list is displayed.
Data required:	

7-Update information by user

7-1-Successful update

Description:	The user wants to change the information and the information is updated.
Pre-conditions:	The user enters the information they wish to update.
Post-conditions:	It receives a warning message that the information has been updated
Data required:	Username(valid) or password(valid)

7-2-Invalid input

Description:	It wants to update the user information but receives an error message because it does not input valid information.
Pre-conditions:	The user enters the information they wish to update.
Post-conditions:	The error message is received that the entered information is not valid.
Data required:	username(invalid) or password(invalid)

8-Reservation the book

8-1-Successful reservation

Description:	The user reserves books borrowed by someone else.
Pre-conditions:	Book to be reserved is selected.
Post-conditions:	book are reserved.
Data required:	

9-Add the book by staff

9-1-Successful add the book

Description:	The staff adds books to the database.
Pre-conditions:	The information of the books the staff will add will be entered.
Post-conditions:	Books added to the database.
Data required:	Bookname(valid) , author(valid)

9-2-Invalid input

Description:	The staff would like to add books with invalid book information and the staff will send an error message.
Pre-conditions:	The staff enters invalid book information.
Post-conditions:	An error message is sent to the staff because the book can not be added.
Data required:	Bookname(invalid) or author(invalid)

10-Add the member by staff

10-1-Successful add the member	
Description:	The staff adds a user to the system.
Pre-conditions:	The staff enters the user's information.
Post-conditions:	The new user is added to the database.
Data required:	Username(valid) and password(valid)

10-2-Invalid input	
Description:	The staff asks the system to add a user with invalid information and the staff sends an error message.
Pre-conditions:	The staff enters the user's information.
Post-conditions:	The staff sends the error message.
Data required:	Username(invalid) or password(invalid)

11-Delete the book from system by staff

11-1-Deleted book	
Description:	Delete a book from the staff database.
Pre-conditions:	The staff select book for delete
Post-conditions:	The warning message is sent to the staff that the book has been deleted from the system
Data required:	

11-2-Unsuccesssful deleted book	
Description:	Delete a book from the staff database.
Pre-conditions:	The staff select book for delete
Post-conditions:	The staff warning message is sent that borrowed from the book
Data required:	

12-Delete the member from system by staff

12-1-deleted member	
Description:	Delete a member from the staff database.
Pre-conditions:	The staff select member for delete
Post-conditions:	The warning message is sent to the staff that the member has been deleted from the system
Data required:	

13-Update the book information by staff

13-1-Successful update	
Description:	The staff updates the book information.
Pre-conditions:	The staff selects the book they want to update and enters the book information.
Post-conditions:	The staff receives a warning message that the book information has been updated.
Data required:	Bookname(valid) and author(valid)

13-2-invalid input	
Description:	The staff updates the book information.
Pre-conditions:	The staff selects the book they want to update and enters the book information.
Post-conditions:	An error message was sent to the staff that the book information is invalid.
Data required:	Bookname(invalid) or author(invalid)

14-Update the member information by staff

14-1-Successful update	
Description:	The staff updates the member information.
Pre-conditions:	The staff selects the member they want to update and enters the member information.
Post-conditions:	The staff receives a warning message that the member information has been updated.
Data required:	username(valid) and password(valid)

14-2-invalid input	

<u>Description</u>:	The staff updates the member information.
<u>Pre-conditions</u>:	The staff selects the member they want to update and enters the member information.
<u>Post-conditions</u>:	An error message was sent to the staff that the member information is invalid.
<u>Data required</u>:	username(invalid) or password(invalid)

15-Search member by staff

15-1-Registered member

<u>Description</u>:	The staff calls the desired user from the system.
<u>Pre-conditions</u>:	The staff enters the user name of the user that they want to call.
<u>Post-conditions</u>:	The information of the user is displayed on the screen.
<u>Data required</u>:	username(valid)

15-2-Unregistered member

<u>Description</u>:	The staff calls the desired user from the system.
<u>Pre-conditions</u>:	The staff enters the user name of the user that they want to call.
<u>Post-conditions</u>:	staff get an error message because the user could not be found
<u>Data required</u>:	username(invalid)

15-3-Invalid input

<u>Description</u>:	The staff calls the desired user from the system.
<u>Pre-conditions</u>:	The staff enters the user name of the user that they want to call.
<u>Post-conditions</u>:	The staff will receive an error message because invalid user name
<u>Data required</u>:	username(invalid)