



BBM487 -Software Engineering Laboratory

Library Book Loan System Software Test Result Report

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These are blackbox testing results using strong equivalence class technique.

We tried all possible inputs for each use case.

Use Case 1 : Login

Test No	Username	Password	Output
1	Valid	Valid	Open main page
2	Valid	Invalid	"Wrong username or password"
3	Valid	Null	"Wrong username or password"
4	Invalid	Valid	"Wrong username or password"
5	Invalid	Invalid	"Wrong username or password"
6	Invalid	Null	"Wrong username or password"
7	Null	Valid	"Wrong username or password"
8	Null	Invalid	"Wrong username or password"
9	Null	Null	"Wrong username or password"

Use Case 2 : Pay Fine

Test No	Are you sure want to pay to fine?	Is the balance sufficient?	Output
1	Y	Y	Pay Fine
2	Y	N	-
3	N	-	-
4	N	-	-

Use Case 3 : Self-Checkout

Test No	Book	User has existing fines?	UserBooks<4	Output
1	Available	Y	Y	"You cant checkout with existing fines"
2	Available	Y	N	"You cant checkout with existing fines"
3	Available	N	Y	Checkout book and "... is added to your books"
4	Available	N	N	"You cannot borrow more than 4 books"
5	Unavailable	Y	Y	"You cant ckeckout an unavailable book"
6	Unavailable	Y	N	"You cant ckeckout an unavailable book"
7	Unavailable	N	Y	"You cant ckeckout an unavailable book"
8	Unavailable	N	N	"You cant ckeckout an unavailable book"

Use Case 4 : Search For Books

Test No	Title	Author	Year	Output
1	Valid	Valid	Valid	Show result
2	Valid	Valid	Invalid	Empty list
3	Valid	Invalid	Valid	Empty list
4	Valid	Invalid	Invalid	Empty list
5	Invalid	Valid	Valid	Empty list
6	Invalid	Valid	Invalid	Empty list
7	Invalid	Invalid	Valid	Empty list
8	Invalid	Invalid	Invalid	Empty list

Use Case 5 : Add to Waiting List

Test No	Is a book selected?	Book Status	Output
1	Y	Available	"You cant add an available book to your waiting list"
2	Y	Unavailable	Add waiting list
3	Y	Book already loaned	"You already loaned this book"
4	N	-	-
5	N	-	-
6	N	-	-

Use Case 6 : Self Return

Test No	Is a book selected?	"Are you sure you want to return this book?"	Output
1	Y	Y	Return book
2	Y	N	-
3	N	-	-
4	N	-	-

Use Case 7 : View My Books

Test No	The user have any book?	Output
1	Y	Show book list
2	N	Blank list

Use Case 8 : Logout

Test No	Input	Output
1	Select Logout button	Return to Login Page

Use Case 9 : Issue Late Fine

Test No	User has an unreturned book?	Output
1	Y	User's fine amount increased.
2	N	-

Use Case 10 : Create Book

Test No	Empty field on form?	Output
1	N	Create book
2	Y	"Please fill the blank fields"

Use Case 10 : Delete Book

Test No	Is a book selected?	"Are you sure you want to delete this item?"	Is the book available?	Output
1	Y	Y	Y	Delete book
2	Y	Y	N	Delete book and reset book fine
3	Y	N	Y	-
4	Y	N	N	-
5	N	-	-	-
6	N	-	-	-
7	N	-	-	-
8	N	-	-	-

Use Case 10 : Update Book

Test No	Is a book selected?	Empty field on form?	Output
1	Y	N	Update book
2	Y	Y	"Please fill the blank fields"
3	N	-	-
4	N	-	-

Use Case 11 : Create User

Test No	Empty field on form?	Username is not unique?	Output
1	N	Y	"Username already exists!"
2	N	N	Create user
3	Y	Y	"Please fill the blank fields"
4	Y	N	"Please fill the blank fields"

Use Case 11 : Delete User

Test No	Is a user selected?	"Are you sure you want to delete this user?"	User have any book?	Output
1	Y	Y	Y	Delete user and Set user books to available
2	Y	Y	N	Delete user
3	Y	N	Y	-
4	Y	N	N	-
5	N	-	-	-

Use Case 11 : Update User

Test No	Is a user selected?	Empty field on form?	Username is unique?	Output
1	Y	Y	Y	-
2	Y	Y	N	Update user
3	Y	N	Y	"Please fill the blank fields"
4	Y	N	N	"Please fill the blank fields"
5	N	-	-	-
6	N	-	-	-
7	N	-	-	-
8	N	-	-	-

Use Case 12 : Notify of Book Being Available

Test No	Was the book on the waiting list returned?	Is the book available when the user is logged in?	Output
1	Y	Y	Send email and "Book available to rent" notification
2	Y	N	Send email
3	N	-	-
4	N	-	-