Compliance Report

for

LIBRARY INFORMATION SYSTEM

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1. HOME PAGE

TEST CASE ID	TEST CASE DESCRIPTION	STATUS	OUTPUT/REMARKS
1.1 GUI DISPLAY			
1.1.1	Available Modules	PASSED	The home page has 4 modules
1.1.2	Activity	PASSED	All Buttons are clickable
1.1.3	Spacing & Aesthetics	PASSED	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
1.2 SIGN IN MODULES			
1.2.1	GUI Aspects	PASSED	Page is centrally aligned. Entry boxes are wide enough. Password is not visible
1.2.2 LOG IN AS LIBRARIAN			
1.2.2.1	Invalid Login ID	PASSED	A error message pops up with the text "Incorrect Login ID entered"
1.2.2.2	Member's Login ID	PASSED	
1.2.2.3	Clerk's Login ID	PASSED	
1.2.2.4	IncorrectPassword	PASSED	A error message pops up with the text "Incorrect Password entered"
1.2.2.5	Correct Librarian's Login Id & password	PASSED	Shows Librarian Home Page
1.2.3 LOG IN AS CLERK			
1.2.3.1	Invalid Login ID	PASSED	A error message pops up with the text "Incorrect Login ID entered"
1.2.3.2	Member's Login ID	PASSED	
1.2.3.3	Librarian's Login ID	PASSED	
1.2.3.4	Incorrect Password	PASSED	A error message pops up with the text "Incorrect Password entered"
1.2.3.5	Correct Clerks's Login ID & Password	PASSED	Shows Clerk Home Page

1.2.4 LOG IN AS MEMBER			
1.2.4.1	Invalid Login ID	**PASSED**	A error message pops up with the text "Incorrect Login ID entered"
1.2.4.2	Librarian's Login ID	**PASSED**	
1.2.4.3	Clerk's Login ID	**PASSED**	
1.2.4.4	Incorrect Password	**PASSED**	A error message pops up with the text "Incorrect Password entered"
1.2.4.5	Correct Member's Login & Password	**PASSED**	Shows Member's Home Page
1.2.5	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the home page
1.3 QUERY SECTION			
1.3.1	GUI Aspects	**PASSED**	All widgets are centrally aligned. Entry Boxes are wide enough. The search results are scrollable.
1.3.2 SEARCH BY ISBN			
1.3.2.1	Bad ISBN	**PASSED**	No results are shown when a *non-existing ISBN* is entered.
1.3.2.2	Good ISBN	**PASSED**	Relevant results are shown when a *valid ISBN* is entered
1.3.3 SEARCH BY TITLE			
1.3.3.1	Primary Matches	**PASSED**	Relevant results are shown when the title exactly matches.
1.3.3.2	Secondary Matches	**PASSED**	Relevant results are shown when the title matches substring of any title, case-insensitively
1.3.4 SEARCH BY AUTHOR			
1.3.4.1	Primary Matches	**PASSED**	Relevant results are shown when the author exactly matches.
1.3.4.2	Secondary Matches	**PASSED**	Relevant results are shown when the author matches substring of any author, case-insensitively

1.3.5	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the home page

2. LIBRARIAN'S CONTROL PANEL

TEST CASE ID	TEST CASE DESCRIPTION	STATUS	OUTPUT/REMARKS
2.1 GUI DISPLAY			
2.1.1	Available Modules	**PASSED**	The home page has 9 modules
2.1.2	Activity	**PASSED**	All Buttons are clickable
2.1.3	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.2 LOG OUT			
2.2	Log Out	**PASSED**	The log out Button is active, clickable and logs out the user when the button is clicked
2.3 REGISTRATION			
2.3.1 GUI ASPECTS			
2.3.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.3.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.3.2 ERRONEOUS INPUTS			
2.3.2.1.1	Member Type Not Specified	**PASSED**	An error message pops up with the text 'Member Type Not Specified'
2.3.2.1.2	Institute ID Not Specified	**PASSED**	An error message pops up with the text 'Institute ID Not Specified'
2.3.2.1.3	Name Not Specified	**PASSED**	An error message pops up with the text 'Name Not Specified'

2.3.2.1.4	DOB Not Specified	NOT APPLICABLE	NIL
2.3.2.2.1	Bad Institute ID	PASSED	If an account already exists for the specified Institute ID, an error message pops up with the text "Account already exists for the specified Institute ID'
2.3.2.2.2	Bad Date of Birth	PASSED	A suitable message pops up if the DOB doesn't satisfy the minimum age criteria
2.3.3 CORRECT INPUTS AND SUCCESSFUL REGISTRATION			
2.3.3.1	Register Button Working	PASSED	The register button is active and clickable. Success Message pops up when clicked if all the inputs are correct, else suitable error message pops up
2.3.3.2	Verify Registration	PASSED	The new member can now login into his account using his login ID and password. Librarian can see the new member in the View All Members Module
2.3.3.3	Verify Databases at the Back-end	PASSED	*Verified*
2.4 DE-REGISTRATION			
2.4.1 GUI ASPECTS			
2.4.1.1	Back Navigability	PASSED	'Go Back' Button is active, clickable and navigates back to the first page
2.4.1.2	Spacing & Aesthetics	PASSED	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.4.2 ERRONEOUS INPUTS			
2.4.2.1.1	LMCN Not Specified	PASSED	An error message pops up with the text "LMCN Not Specified"

2.4.2.1.2	Name Not Specified	**PASSED**	An error message pops up with the text "Name Not Specified"
		PASSED	
2.4.2.2.1	Bad LMCN	**PASSED**	An error message pops up with the text "Specified LMCN not found"
2.4.2.2.2	Bad Name	**PASSED**	An error message pops up with the text "Incorrect Name for the Specified LMCN"

2.4.3. CORRECT INPUTS BUT DE-REGISTRATION UNSUCCESSFUL

2.4.3.2	Member has return due	**PASSED**	An error message pops up with the text "Specified Member has not yet returned some books"
2.4.3.2	Member has Fines Due	**PASSED**	An error message pops up with the text "Specified Member has not yet cleared some penalties"

2.4.4. CORRECT INPUTS AND DE-REGISTRATION SUCCESSFUL

2.4.4.1	De-Register Button	**PASSED**	De-Register button is active, clickable and shows up a warning when clicked
2.4.4.2	Warning/Confirmation	**PASSED**	A warning stating the consequences of deregistration appears
2.4.4.3	Successful De-Registration	**PASSED**	The member gets successfully deregistered if the warning is accepted.
2.4.4.4	Verify De-Registration	**PASSED**	An error message with the text "Specified LMCN not found" pops up when the member tries to login into his account. The member details is removed from the View All members module of Librarian
2.4.4.5	Verify Databases at the end	**PASSED**	*Verified*

2.5 UNPOPULAR BOOKS ANALYTICS

2.5.1 GUI ASPECTS			
2.5.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.5.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.5.2 UNSPECIFIED FIELDS			
2.5.2	Unspecified Fields	**PASSED**	An error message with the text "Time span not specified" pops up
2.5.3 RELEVANCE OF DISPLAYED RECORDS			
2.5.3.1	Statistics for Last one year	**PASSED**	A list of relevant books appears with the necessary details and the last issue date
2.5.3.2	Statistics for Last three years	**PASSED**	
2.5.3.3	Statistics for Last Five Years	**PASSED**	
2.6 VIEW CATALOGUE			
2.6.1 GUI ASPECTS			
2.6.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.6.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.6.2 RELEVANCE OF DISPLAYED RECORDS			
NIL	NIL	**PASSED**	A list of all books in the catalogue appears with all necessary details.
2.7 VIEW CURRENTLY ISSUED BOOKS			
2.7.1 GUI ASPECTS			
2.7.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page

2.7.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.7.2 RELEVANCE OF DISPLAYED RECORDS			
NIL	NIL	**PASSED**	A list of all books currently issued appears with all necessary details.
2.8 VIEW BOOKS ISSUED IN PAST			
2.8.1 GUI ASPECTS			
2.8.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.8.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.8.2 RELEVANCE OF DISPLAYED RECORDS			
NIL	NIL	**PASSED**	A list of all books issued out in the past appears with all necessary details.
2.9 VIEW CURRENTLY OVER-DUE BOOKS			
2.9.1 GUI ASPECTS			
2.9.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.9.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
2.9.2 RELEVANCE OF DISPLAYED RECORDS			
NIL	NIL	**PASSED**	A list of all books currently issued and are overdue appears with all necessary details and penalty.
2.10 VIEW ALL MEMBERS			
2.10.1 GUI ASPECTS			

2.10.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.10.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient

2.10.2 RELEVANCE OF DISPLAYED RECORDS

NIL	NIL	**PASSED**	A list of all the members registered in the LIS appears with all necessary details

2.11. CHANGE ACCOUNT'S PASSWORD

2.11.1 GUI ASPECTS

2.11.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
2.11.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient

2.11.2 ERRONEOUS FIELDS

2.11.2.1 UNSPECIFIED FIELDS

2.11.2.1.1	Current Password Not Specified	**PASSED**	An error message with the text "Current Password not specified"
2.11.2.1.2	New Password not Specified	**PASSED**	An error message with the text "New Password not specified"
2.11.2.1.3	Confirm Password Not specified	**PASSED**	An error message with the text "Confirmation Password not specified"

2.11.2.2 WRONGLY SPECIFIED FIELDS

2.11.2.2.1	Current Password incorrect	**PASSED**	An error message with the text "Incorrect Old password" appears
2.11.2.2.2	New Password has No character	**PASSED**	An error message with the text "New password has no characters" appears
2.11.2.2.2.3	New & Confirm Passwords Don't Match	**PASSED**	An error message with the text "New and Confirm passwords don't match" appears

2.11.3.2 VERIFY CHANGED PASSWORD			
2.11.3.2.1	Try LogIn with Old Password	**PASSED**	An error message with the text "Incorrect Password" pops up
2.11.3.2.2	Try Login with New Password	**PASSED**	Successfully logs in into the account.

3. CLERK'S CONTROL PANEL

TEST CASE ID	TEST CASE DESCRIPTION	STATUS	OUTPUT/REMARKS
3.1 GUI DISPLAY			
3.1.1	Available Modules	**PASSED**	The home page has 8 modules
3.1.2	Activity	**PASSED**	All Buttons are clickable
3.1.3	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.2 LOG OUT			
3.2	Log Out	**PASSED**	The log out Button is active, clickable and logs out the user when the button is clicked
3.3 ISSUE A BOOK (FROM RACK)			
3.3.1 GUI ASPECTS			
3.3.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.3.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.3.2 ERRONEOUS INPUTS			
3.3.2.1 UNSPECIFIED FIELDS			
3.3.2.1.1	ISBN Not Specified	**PASSED**	An error message with the text "ISBN

			of the book Not Specified" appears
3.3.2.1.2	LMCN Not Specified	**PASSED**	An error message with the text "LMCN of the issuer Not Specified" appears

3.3.2.2 WRONGLY SPECIFIED FIELDS

3.3.2.2.1	Bad ISBN	**PASSED**	An error message with the text "No book with specified LMCN was not found" appears
3.3.2.2.2	Bad LMCN	**PASSED**	An error message with the text "Specified LMCN not found in the accounts of LIS" appears

3.3.3 CORRECT INPUTS BUT ISSUE UNSUCCESSFUL

3.3.3.1	Member Already Reached Limit	**PASSED**	An error message with the text "Member has already reached the limit" appears
3.3.3.2	No Copies Available Presently	**PASSED**	An error message with the text "No copies in the rack right now! You can reserve an already issued book" appears

3.3.4 CORRECT INPUTS AND ISSUE SUCCESSFUL

3.3.4.1.	Issue Button Working	**PASSED**	Issue Button is active, clickable and issues the book or shows suitable error message when clicked
3.3.4.2	Verify Changes Through The Librarian's Accounts	**PASSED**	The Book and the member details appears in 'View Currently Issued Books'
3.3.4.3	Verify Databases at the Back-End	**PASSED**	*Verified*

3.3.4.4 VERIFY CHANGES THROUGH MEMBER'S ACCOUNT

3.3.4.4.1	Check Notifications	**PASSED**	The member receives a notification stating the details of the issued books along with the due date of return.
3.3.4.4.2	Check Module(s)	**PASSED**	The book appears in the 'View Currently Issued Books' module in

			member's account.
3.4 RESERVE A BOOK			
3.4.1 GUI ASPECTS			
3.4.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.4.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.4.2 ERRONEOUS INPUTS			
3.4.2.1 UNSPECIFIED FIELDS			
3.4.2.1.1	ISBN Not Specified	**PASSED**	An error message with the text "ISBN of the book Not Specified" appears
3.4.2.1.2	LMCN Not Specified	**PASSED**	An error message with the text "Reserver LMCN Not Specified" appears
3.4.2.2 WRONGLY SPECIFIED FIELDS			
3.4.2.2.1	Bad ISBN	**PASSED**	An error message with the text "No book with specified LMCN was not found" appears
3.4.2.2.2	Bad LMCN	**PASSED**	An error message with the text "Specified LMCN not found" appears
3.4.3 CORRECT INPUTS BUT RESERVATION UNSUCCESSFUL			
3.4.3.1	No Relevant Issued Book	**PASSED**	An error message with the text "No issued books with the specified LMCN were not found to be open for reservation! You may try issuing the book" appears
3.4.4 CORRECT INPUTS AND RESERVATION SUCCESSFUL			
3.4.4.1	Reserve Button Working	**PASSED**	Reserve Button is active, clickable and reserves book or show error when clicked

3.4.4.2	Verify Databases at the Back-End	**PASSED**	*Verified*

3.4.4.3 VERIFY CHANGES THROUGH MEMBER'S ACCOUNTS

3.4.4.3.1	Check Notifications	**PASSED**	The member receives a notification stating the details of the reservation along with the Reservation ID and Reservation Key

3.5 ISSUE A RESERVED BOOK

3.5.1 GUI ASPECTS

3.5.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.5.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient

3.5.2 ERRONEOUS INPUTS

3.5.2.1 UNSPECIFIED FIELDS

3.5.2.1.1	Reservation ID Not Specified	**PASSED**	An error message with the text "Reservation ID Not Specified" appears
3.5.2.1.2	Reservation Key Not Specified	**PASSED**	An error message with the text "Reservation Key Not Specified" appears

3.5.2.2 WRONGLY SPECIFIED FIELDS

3.5.2.2.1	Bad Reservation ID	**PASSED**	An error message with the text "Reservation ID not found" appears
3.5.2.2.2	Bad Reservation Key	**PASSED**	An error message with the text "Reservation Key did not match" appears

3.5.3 CORRECT INPUTS BUT ISSUE UNSUCCESSFUL

3.5.3.1	Member already reached Limit	**PASSED**	An error message with text " Member has already reached the limit" appears

3.5.3.2	Reserved Book Not Yet Returned	**PASSED**	An error message with text "Reserved Book is not yet returned" appears
	3.5.4 CORRECT INPUTS AND ISSUE SUCCESSFUL		
3.5.4.1	Issue Button working	**PASSED**	The issue button is clickable , active and issues the book or shows appropriate error when clicked
3.5.4.2	Verify Changes through LIbrarian's Account	**PASSED**	The book and the issuer details is available in the "Show all currently issued book" module
3.5.4.3	Verify Databases at the Back-End	**PASSED**	*Verified*
	3.5.4.4 VERIFY CHANGES THROUGH MEMBER'S ACCOUNTS		
3.5.4.4.1	Check Notifications	**PASSED**	The member receives a notification stating the details of the issued book along with the due date of return
3.5.4.4.2	Check Module(s)	**PASSED**	The Member is able to see the book details in the "View Currently Issued Books" module.
	3.6 RETURN A BOOK		
	3.6.1 GUI ASPECTS		
3.6.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.6.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
	3.6.2 ERRONEOUS INPUTS		
	3.6.2.1 UNSPECIFIED FIELDS		
3.6.2.1.1	Issue ID Not Specified	**PASSED**	An error message with text "Issue ID Not Specified" appears
	3.6.2.2 WRONGLY SPECIFIED FIELDS		
3.6.2.2.1	Bad Issue ID	**PASSED**	An error message with text "Specified

			Issue ID not found in the database" appears
		3.6.3 CORRECT INPUTS AND RETURN SUCCESSFUL	
3.6.3.1	Return Button Working	**PASSED**	The button is clickable and active
3.6.3.2	Verify Changes through Librarian's Account	**PASSED**	The book and the issuer details relevant to the issue ID gets removed from the "Show All Currently Issued Books" module
3.6.3.3	Verify Databases at the Back-End	**PASSED**	*Verified.*
		3.6.3.4 VERIFY CHANGES THROUGH MEMBER'S ACCOUNT	
3.6.3.4.1	Check Notification	**PASSED**	The member receives a notification confirming the successful return of the book
3.6.3.4.2	Check Module	**PASSED**	The returned book details is no longer available in the "View Currently Issued Books" module
		3.6.4 ASK TO PAY FINE	
		3.6.4.1 RELEVANT POP-UP APPEARANCE	
3.6.4.1.1	Book returned Before Due Date	**PASSED**	In this case, no pop up for the fine appears
3.6.4.1.2	Book returned After Due Date	**PASSED**	In this case, a pop up stating the penalty charges appears and asks to navigate directly to the Pay Fine module
3.6.4.2	Navigation To Pay Fine Module	**PASSED**	If the pop up question is responded in affirmation then the pay fine page appears
		3.7 PAY FINE	
		3.7.1 GUI ASPECTS	
3.7.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page

3.7.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.7.2 ERRONEOUS INPUTS			
3.7.2.1 UNSPECIFIED INPUTS			
3.7.2.1.1	Issue ID Not Specified	**PASSED**	An error message with text "Issue ID Not Specified" appears
3.7.2.2 WRONGLY SPECIFIED FIELDS			
3.7.2.2.1	Bad Issue ID	**PASSED**	An error message with text "Specified Issue ID not found in the database" appears
3.7.3 CORRECT INPUTS BUT FINE PAYMENT UNSUCCESSFUL			
3.7.3.1	Fine not pending	**PASSED**	An error message with text "No fine is pending for the specified issue ID"
3.7.4 CORRECT INPUTS AND FINE PAYMENT SUCCESSFUL			
3.7.4.1	Pay Fine Button Working	**PASSED**	The button is active and clickable.
3.7.4.2	Verify Databases at the Back-End	**PASSED**	*Verified*
3.7.4.3 VERIFY CHANGES THROUGH MEMBER'S ACCOUNT			
3.7.4.3.1	Check notification	**PASSED**	The member receives a notification stating the issue ID and the fine paid
3.8 ADD BOOK TO CATALOGUE			
3.8.1 GUI ASPECTS			
3.8.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.8.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.8.2 ERRONEOUS INPUTS			

3.8.2.1 UNSPECIIFED INPUTS			
3.8.2.1.1	ISBN not Specified	**PASSED**	An error message with the corresponding violation appears
3.8.2.1.2	Title Not Specified	**PASSED**	
3.8.2.1.3	Author not Specified	**PASSED**	
3.8.2.1.4	Language Not Specified	**PASSED**	
3.8.2.1.5	Rack No. Not Specified	**PASSED**	
3.8.2.1.6	Number of Copies Not Specified	**PASSED**	
3.8.2.2 WRONGLY SPECIFIED FIELDS			
3.8.2.2.1	Bad ISBN	**PASSED**	An error message with text " Book with Specified ISBN number is already present in the catalogue" appears
3.8.2.2.2	Bad Number of Copies	**PASSED**	An error message with text "Invalid Entry for number of copies" appears
3.8.3 CORRECT INPUTS AND INSERTION SUCCESSFUL			
3.8.3.1	Add Button Working	**PASSED**	The button is active and clickable.
3.8.3.2	Verify Changes in Catalogue	**PASSED**	The book details is now available in the "Catalogue" module in librarian's Account
3.8.3.2	Verify Databases at the Back-End	**PASSED**	Verified
3.9 REMOVE BOOK FROM CATALOGUE			
3.9.1 GUI ASPECTS			
3.9.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
3.9.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.9.2 ERRONEOUS INPUTS			

	3.9.2.1 UNSPECIFIED FIELDS		
3.9.2.1.1	ISBN Not Specified	**PASSED**	An error message with text "ISBN Not Specified" appears
	3.9.2.2 WRONGLY SPECIFIED FIELDS		
3.9.2.2.1	Bad ISBN	**PASSED**	An error message with text "Specified ISBN not found in the database" appears
	3.9.3 CORRECT INPUTS BUT REMOVAL UNSUCCESSFUL		
3.9.3.1	Copy(ies) are issued out	**PASSED**	An error message with text "All the copies of the book are not present in the rack" appears
3.9.3.2	Copy(ies) are reserved	**PASSED**	An error message with text "All the copies of the book are not present in the rack" appears
	3.9.4 CORRECT INPUTS AND REMOVAL SUCCESSFUL		
3.9.4.1	Remove Button Working	**PASSED**	The button is active and clickable.
3.9.4.2	Warning/Confirmation	**PASSED**	A warning stating the consequences appears
3.9.4.3	Successful Removal	**PASSED**	If the warning is accepted by the clerk, the book gets removed from the catalogue
3.9.4.4	Verify Changes through Librarian's Account	**PASSED**	The book details is no longer available in the catalogue module of librarian's account
3.9.4.5	Verify Databases at the Back-End	**PASSED**	Verified
	3.10. CHANGE ACCOUNT'S PASSWORD		
	3.10.1 GUI ASPECTS		
3.10.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page

3.10.1.2	Spacing & Aesthetics	PASSED	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
3.10.2 ERRONEOUS INPUTS			
3.10.2.1 UNSPECIFIED FIELDS			
3.10.2.1.1	Current Password Not Specified	PASSED	An error message with the text " Current Password not specified"
3.10.2.1.2	New Password not Specified	PASSED	An error message with the text " New Password not specified"
3.10.2.1.3	Confirm Password Not specified	PASSED	An error message with the text " Confirm Password not specified"
3.10.2.2 WRONGLY SPECIFIED FIELDS			
3.10.2.2.1	Current Password incorrect	PASSED	An error message with the text "Incorrect Old password" appears
3.10.2.2.2	New Password has No character	PASSED	An error message with the text "New password has no characters" appears
3.10.2.2.2.3	New & Confirm Passwords Don't Match	PASSED	An error message with the text "New and Confirm passwords don't match" appears
3.10.3.2 VERIFY CHANGED PASSWORD			
3.10.3.2.1	Try LogIn with Old Password	PASSED	An error message with the text "Incorrect Password" pops up
3.10.3.2.2	Try Login with New Password	PASSED	Successfully logs in into the account.

4. MEMBER'S CONTROL PANEL

TEST CASE ID	TEST CASE DESCRIPTION	STATUS	OUTPUT/REMARKS
4.1 GUI DISPLAY			
4.1.1	Available Modules	PASSED	The home page has 8 modules

4.1.2	Activity	**PASSED**	All Buttons are clickable
4.1.3	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient

4.2 LOG OUT

4.2	Log Out	**PASSED**	The log out Button is active, clickable and logs out the user when the button is clicked

4.3 VIEW NOTIFICATIONS

4.3.1 GUI ASPECTS

4.3.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
4.3.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient

4.3.2. TEST NOTIFICATIONS ACTIVITY

4.3.2.1	Book Issued	**PASSED**	The member receives a notification when he issues a book
4.3.2.2	Book Returned	**PASSED**	The member receives a notification when the book is returned
4.3.2.3	Book Reserved	**PASSED**	The member receives a notification when a book is reserved for the member
4.3.2.4	Reserved Book Returned By Former Issuer	**PASSED**	The member receives a notification when the reserved book is returned by the former issuer
4.3.2.5	Penalty Cleared	**PASSED**	The member receives a notification stating the issue ID and the fine paid when the fine is paid by the member

4.3.2.6 RESERVATION EXPIRED

4.3.2.6.1	Boundary Case	**PASSED**	The member receive a notification when the reservation is expired

4.3.2.6.2	Remote Case	**PASSED**	The member receive a notification when the reservation is expired
4.3.3	Select And Display	**PASSED**	The content appears in the box on the right when a notification message is clicked
4.4 VIEW CURRENTLY ISSUED BOOKS			
4.4.1 GUI ASPECTS			
4.4.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
4.4.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
4.4.2	Relevance of Displayed Books	**PASSED**	A list of all the books currently issued by the member appears
4.5 VIEW BOOKS ISSUED IN PAST			
4.5.1 GUI ASPECTS			
4.5.1.1	Back Navigability	**PASSED**	'Go Back' Button is active, clickable and navigates back to the first page
4.5.1.2	Spacing & Aesthetics	**PASSED**	Buttons & Modules are centrally aligned. Margins are uniform and sufficient
4.5.2	Relevance of Displayed Books	**PASSED**	A list of all the books issued in the past by the member appears
4.6.2 ERRONEOUS INPUTS			
4.6.2.1 UNSPECIFIED FIELDS			
4.6.2.1.1	Current Password Not Specified	**PASSED**	An error message with the text " Current Password not specified"
4.6.2.1.2	New Password not Specified	**PASSED**	An error message with the text " New Password not specified"
4.6.2.1.3	Confirm Password Not specified	**PASSED**	An error message with the text " Confirm Password not specified"

4.6.2.2 WRONGLY SPECIFIED FIELDS		
4.6.2.2.1	Current Password incorrect	**PASSED**	An error message with the text "Incorrect Old password" appears
4.6.2.2.2	New Password has No character	**PASSED**	An error message with the text "New password has no characters" appears
4.6.2.2.2.3	New & Confirm Passwords Don't Match	**PASSED**	An error message with the text "New and Confirm passwords don't match" appears
4.6.3.2 VERIFY CHANGED PASSWORD		
4.6.3.2.1	Try LogIn with Old Password	**PASSED**	An error message with the text "Incorrect Password" pops up
4.6.3.2.2	Try Login with New Password	**PASSED**	Successfully logs in into the account.

5. MISCELLANEOUS SYSTEM FEATURES

5.1 REMINDERS		
5.1.1 APPROACHING DUE DATE OF RETURN		
5.1.1.1	Appearance of Reminder	**PASSED**	A reminder of approaching due date of return appears with details of the issued book
5.1.1.2	Disappearance of Reminder	**PASSED**	The reminder disappears when the book is returned
5.1.2 PENDING RETURN OF AN ISSUED BOOK		
5.1.2.1	Appearance of Reminder	**PASSED**	A reminder of pending return of issued book appears with the details of the issued book
5.1.2.2	Disappearance of Reminder	**PASSED**	The reminder disappears when the book is returned
5.1.3 RESERVED BOOK WAITING		

5.1.3.1	Appearance of Reminder	PASSED	A reminder of reserved book waiting appears along with the details of the reservation
5.1.3.2	Disappearance of Reminder	PASSED	The reminder disappears when the reserved book either gets issued or the reservation gets expired
5.1.4 FINE PAYMENT PENDING			
5.1.4.1	Appearance of Reminder	PASSED	A reminder of pending payment of penalty appears with the details of the issued book and the amount.
5.1.4.2	Disappearance of Reminder	PASSED	The reminder disappears when the fine is paid
5.2 AUTOMATIC RESERVATION CANCELLATION			
5.2.1	Simulate the test case	NOTHING TO TEST	NIL
5.2.2	Post stimulation state of reminders	PASSED	No recent notifications for reservation cancellation were found.
5.2.3 AUTOMATIC CANCELLATION			
5.2.3.1	Boundary Case	PASSED	Reservation gets expired automatically.
5.2.3.2	Remote Case	PASSED	
5.2.4 VERIFICATION			
5.2.4.1	Verify through member's inbox	PASSED	The member receives a notification regarding cancellation of reservation
5.2.4.2	Verify databases at the back end	PASSED	*Verified.*