Black box testing

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LOGIN FORM:

S.No	Test Case	Expected Result	Test Result
1	Enter valid name and password & click on login button	Software should display main window	Successful
2	Enter Invalid	Software should not display main window	Successful

USER ACCOUNT FORM:

S.No	Test Case	Expected Result	Test Result
1	On the click of ADD button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text..is found then it gives proper message otherwise Adds Record To the Database	Successful
2	On the click of DELETE button	This deletes the details of students by using Register no.	Successful
3	On the click of UPDATE button	Modified records are Updated in the database by clicking UPDATE button.	Successful
4	On the click of REQUEST STATUS button	Display the book request of the user	Successful
5	On the click of EXIT button	Exit the current book details form	Successful
6	On the click of NEXT button	Display the next form	Successful

BOOK ISSUE FORM:

S.No	Test Case	Expected Result	Test Result
1	On the click of ADD button	At first user have to fill all fields with proper data, if any Error like entering text data instead of number or entering number instead of text..is found then it gives proper message otherwise Adds Record To the Database	Successful
2	On the click of DELETE button	This deletes the details of students by using Register no.	Successful
3	On the click of UPDATE button	Modified records are Updated in the database by clicking UPDATE button.	Successful
4	On the click of REQUEST button	Can request the management for a book with title and the author of the book	Successful
5	On the click of EXIT button	Exit the current book details form	Successful
6	On the click of NEXT button	Display the next form	Successful

7	On the click of SEARCH button	Displays the details of book issue along with its location in the library otherwise gives related error message.	Successful

BOOK RETURN

S.No	Test Case	Expected Result	Test Result
1	On the click of UPDATE button	Modified records are Updated in the database by clicking UPDATE button.	Successful
2	On the click of SUBMIT button	Display the book got submitted and show whether there is any fine or not.	Successful
3	On the click of EXIT button	Exit the current Portal details form	Successful
4	On the click of NEXT button	Display the next form	Successful

DUE FORM

S.No	Test Case	Expected Result	Test Result
1	On the click of DISPLAY button	Display all the due dates of the books user has taken with fines if any.	Successful
2	On the click of EXTEND button	By clicking EXTEND user can extend the due date of a respective book.	Successful
5	On the click of EXIT button	Exit the current Portal details form	Successful

POSITIVE NEGATIVE TESTING

LOGIN FORM

POSITIVE TESTING:

S.No	Test Case	Work Done
1	Email-id	E-mail validation with vitap.ac.in domain.
2	Password	Account validation with password for vitap email id.

NEGATIVE TESTING:

S.No	Test Case	Work Done
1	Email-id	Should login with vitap.ac.in domain email-id.
2	Password	Error message as Wrong Password.

USER ACCOUNT FORM

POSITIVE TESTING:

S.No	Test Case	Work Done
1	Name	Only alphabets.
2	E-mail	E-mail validation with vitap.ac.in domain.
3	Year of study	Only numeric
4	Branch	Only alphabets
5	Registration number	Alphabets and numeric

NEGATIVE TESTING:

S.No	Test Case	Work Done
1	Name	No numerics or special characters are allowed.
2	E-mail	Should login with vitap.ac.in domain email-id.
3	Year of study	No alphabets.
4	Branch	No numerics.
5	Registration number	No special characters are allowed.

BOOK ISSUE

POSITIVE TESTING:

S.No	Test Case	Work Done
1	Book	Enter the text
2	Author	Enter the text

NEGATIVE TESTING:

S.No	Test Case	Work Done
1	Book	No numerics are allowed.
2	Author	No numerics are allowed.

BOOK RETURN

POSITIVE TESTING:

S.No	Test Case	Work Done
1	Book ID	No numerics are allowed.

NEGATIVE TESTING:

S.No	Test Case	Work Done

1	Book ID	No numerics are allowed.

.BOUNDARY VALUE ANALYSIS

Case Study	Invalid(min-1)	Valid(min,+min,-max,max)	Invalid(max+1)
Due date	Before date	On date	After date
Availability	Book is not present in the library	Number of books	Out of stock
Students	Total strength-1	Total strength	Total strength+1

DECISION TABLE

Login Page

Conditions	Rule 1	Rule 2	Rule 3	Rule 4
Username (T/F)	F	T	F	T
Password (T/F)	F	F	T	T
Output (E/H)	E	E	E	H

Legend:
- T – Correct username/password
- F – Wrong username/password
- E – Error message is displayed
- H – Home screen is displayed

Interpretation:
- Case 1 – Username and password both were wrong. The user is shown an error message.
- Case 2 – Username was correct, but the password was wrong. The user is shown an error message.
- Case 3 – Username was wrong, but the password was correct. The user is shown an error message.
- Case 4 – Username and password both were correct, and the user navigated to homepage

While converting this to test case, we can create 2 scenarios ,
- Enter correct username and correct password and click on login, and the expected result will be the user should be navigated to homepage

And one from the below scenario
- Enter wrong username and wrong password and click on login, and the expected result will be the user should get an error message
- Enter correct username and wrong password and click on login, and the expected result will be the user should get an error message
- Enter wrong username and correct password and click on login, and the expected result will be the user should get an error message

USER ACCOUNT FORM:

Condition	Case 1	Case 2	Case3	Case 4	Case 5	Case 6	Case 7	Case 8
Name	T	T	T	T	F	F	F	F

Email	T	T	F	F	T	T	F	F
Year of Study	T	F	T	F	T	F	T	F
Output	User information updated	False Year of Study	Not a valid email	Email id and year of study not valid	Numeric data in name is not allowed	Numeric data in name And year of study not valid	Numeric data in name and email not valid	Numeric data in name,email id and year of study not valid

LEGEND:
- T – *Correct username/email-id/year of study.*
- F – *Wrong username/email-id/year of study.*

BOOK ISSUE

Condition	Case 1	Case 2	Case 3	Case4
Book Name	T	T	F	F
Author Name	T	F	T	F
Output	Book Issue done	The book is not found with this author's name.	Invalid book name	Book not found checkbook name and author-name

LEGEND:
- T – *Correct book name/author-name*
- F – *Wrong book name/author-name*