

Black Box Testing

We have used Equivalence Class Partitioning and Boundary Value Analysis to test our website.

Test cases highlighted in the red color are the cases which have failed in our system.

1. Login Feature:

Users can successfully login with the correct Email and password.

Possible Values:

Email : correct,incorrect and empty

Password : correct,incorrect and empty

Test cases and outcomes

<u>Email</u>	<u>Password</u>	<u>Expected output</u>	<u>Actual Output</u>
correct	correct	Login successful	Login successful
correct	incorrect	Login failed	Login failed
correct	empty	Login failed	All fields are required (Login Failed)
incorrect	correct	Login failed	User does not exist(Login failed)
incorrect	incorrect	Login failed	User does not exist(Login failed)
incorrect	empty	Login failed	All fields are required (Login Failed)

empty	correct	Login failed	All fields are required (Login Failed)
empty	incorrect	Login failed	All fields are required (Login Failed)
empty	empty	Login failed	All fields are required (Login Failed)

Test Cases Taken from each class:

Email: 201801432@daiict.ac.in (correct)

Password: 123456 (correct)

Expected Outcome: (Login successful)

Actual Outcome: (Login successful)

Email: 201801432@daiict.ac.in (correct)

Password: 1234567 (incorrect)

Expected Outcome: (Login failed)

Actual Outcome: Email or Password Incorrect

Email: 201801432@daiict.ac.in (correct)

Password: (empty)

Expected Outcome: (Login failed)

Actual Outcome: All fields required

Email: 201901432@daiict.ac.in (incorrect)

Password: 123456 (correct)

Expected Outcome: (Login failed)

Actual Outcome: User does not exist

Email: 201901432@daiict.ac.in (incorrect)

Password: 1234567 (incorrect)

Expected Outcome: (Login failed)

Actual Outcome: User does not exist

Email: 201901432@daiict.ac.in (incorrect)

Password: (empty)

Expected Outcome: (Login Failed)

Actual Outcome: All fields are required(Login Failed)

Email: (Empty)

Password: 123456 (correct)

Expected Outcome: Login Failed

Actual Outcome: All fields are required(Login Failed)

Email: (Empty)

Password: 789123(Incorrect)

Expected Outcome: Login Failed

Actual Outcome: All fields are required(Login Failed)

Email: (Empty)

Password: (Empty)

Expected Outcome: Login Failed

Actual Outcome: All fields are required(Login Failed)

2. Register Feature:

To successfully sign-up, User has to provide the information asked in the registration form and press the submit button.

Possible values :

Name : non-empty(any number of ascii characters), empty

Email : valid (email should contain at least one ascii character before '@' and after it as well) , invalid, already registered email, empty.

Password : valid(ascii characters length greater than 5), invalid(ascii characters length less than or equal to 5) and empty

Test cases and outcomes

<u>Name</u>	<u>Email</u>	<u>Password</u>	<u>Expected Outcome</u>	<u>Actual Outcome</u>
empty	anything	anything	Register fail	Register fail
non-empty	empty	anything	Register fail	Register fail
non-empty	anything	empty	Register fail	Register fail
non-empty	valid	valid	Register success	Register Success
non-empty	valid	invalid	Register fail	Register fail
non-empty	invalid	valid	Register fail	Register fail
non-empty	invalid	invalid	Register fail	Register fail
non-empty	already registered	valid	Register fail	Register fail
non-empty	already registered	invalid	Register fail	Register fail

3. Update Profile Feature:

The user can update his/her profile by providing student id and contact details in the profile section.

Possible values :

Student ID : Empty, valid(all characters should be digits) , invalid

Mobile number: Valid (should contain digits from 0-9 and length exactly equal to 10), Invalid, empty.

Test cases and outcomes

<u>Student ID</u>	<u>Mobile number</u>	<u>Expected Outcome</u>	<u>Actual Outcome</u>
Empty	Anything	Update fail	Update fail
Anything	Empty	Update fail	Update fail
Invalid	Invalid	Update fail	Update fail
Invalid	Valid	Update fail	Update fail
Valid	Invalid	Update fail	Update fail
Valid	Valid	Update Successful	Update Successful

4. Adding a new book feature:

The seller can add a new book for selling on the platform.

Possible values :

Book name : Empty, Non-empty

Author : Empty, Non-empty

Price : Empty, Invalid(value less than zero),Valid (value greater than or equal to zero).

ISBN : Empty, Valid (string having digits from 0 to 9 and having length exactly 10 or 13),Invalid (all other)

Course : Empty, Non-empty

Test cases and outcomes

<u>Book Name</u>	<u>Author</u>	<u>Price</u>	<u>ISBN</u>	<u>Course</u>	<u>Expected outcome</u>	<u>Actual outcome</u>
Empty	Anything	Anything	Anything	Anything	Not able to add	Not able to add
Anything	Empty	Anything	Anything	Anything	Not able to add	Not able to add
Anything	Anything	Empty	Anything	Anything	Not able to add	Not able to add
Anything	Anything	Anything	Empty	Anything	Not able to add	Not able to add
Anything	Anything	Anything	Anything	Empty	Not able to add	Not able to add
Non-empty	Non-empty	Invalid	Valid	Non-empty	Not able to add	Able to add
Non-empty	Non-empty	Valid	Invalid	Non-empty	Not able to add	Able to add
Non-empty	Non-empty	Invalid	Invalid	Non-empty	Not able to add	Able to add
Non-empty	Non-empty	Valid	Valid	Non-empty	Able to add	Able to add

5. Search a book feature :

Possible values :

Empty, Text entered and it is matching with some of the available books, Text entered but it is not matching with any of the available books

Test cases and outcomes

<u>Text in search bar</u>	<u>Expected Output</u>	<u>Actual outcome</u>
Empty	No search result	No search result
Text entered matching with some available book	Some of the books found	Improper Results*^
Text entered not matching with any available book	None of the books found	Improper Results*

Remarks -

*The search bar is not searching the available books if the text entered in the search bar is of length less than three characters.

^The text entered in the search bar is case sensitive.