IT314 Group 6 System Testing

Login Module For Student

Input Classes:

1. Login

E1: Invalid format

E2: Valid format

E3: Empty

P1: Correct Password

P2: Wrong Password

P3: Empty

Output Classes:

Success

Error

Equivalence Class Table:

Class ID	Email	Password	Expected Output
C1	E1	P1	Error
C2	E1	P2 Error	
C3	any	P3 Error	
C4	E2	E2 P1 Succes	
C5	E3	any	Error

Boundary Value Analysis:

ID	Email	Password	Expected Output
1	""	2234	Error
2	un	un	Error
3	lksjdflk	324234	Error
4	lksdfj	un	Error
5	klfsjdflkj@gmail.com	kj@gmail.com Error	
6	lkjsdflkj@gmai.com	13434	Success

Note: Above are the test cases only for extreme cases. If both email and password are in valid format then Expected output depends on correctness of Password that is stored in our database.

Login Module For Instructor

Input Classes:

Email:

E1: Invalid format E2: Valid format

E3: Empty

Password:

P1: Correct Password P2: Wrong Password

P3: Empty

Output Classes:

Success Error

Equivalence Class Table:

Class ID	Email	Email Password Expected	
C1	E1,E3	P1 Error	
C2	E1,E3	P2	Error
C3	E1,E2,E3	P3	Error
C4	E2	E2 P1 Success	
C5	E2	P2	Invalid Password

Boundary Value Analysis:

ID	Email	Password	Expected Output
1	un	2234	Error
2	un	633	Error
3	lksjdflk	324234	Error
4	lksdfj	633	Error
5	klfsjdflkj@gmail.com		Error

6	lkjsdflkj@gmai.com	13434	Success
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Note: Above are the test cases only for extreme cases. If both email and password are in valid format then Expected output depends on correctness of Password that is stored in our database.

Register Module For Student

Input Classes:

Email field:

E1: Invalid format

E2: Valid format

E3: Empty

First Name:

F1: Valid

F2: Empty

Last Name:

L1: Valid

L2: Empty

Password field:

P1: Empty

P2: less than 8 characters

P3: more than 15 characters

P4: No special characters

P5: Valid format

Output Classes:

Success

Error

Equivalence Class Table:

id Email Password First Name Last Name Expecte Output

1	E1	any	any	any	Error
2	E3	any	any	any	Error
3	E2	any	F2	any	Error
4	any	any	F1	L2	Error
5	any	P1	any	any	Error
6	any	P2	any	any	Error
7	any	P3	any	any	Error
8	any	P4	any	any	Error
9	E2	P5	F1	L1	Success

Test Cases

id	Email	Password	First Name	Last Name	Expected Output
1	 "	Asdf@123	abcd	abcd	error
2	 "	Asdf@123	""	abcd	error
3	""	Asdf@123	abcd	un	error
4	""	Asdf@123	""	437	error
5	xyz	Asdf@123	abcd	abcd	error
6	xyz	Asdf@123	""	abcd	error
7	xyz	Asdf@123	abcd	437	error
8	xyz	Asdf@123	""	""	error
9	xyz@gmail.c om	Asdf@123	abcd	abcd	Success
10	xyz@gmail.c om	Asdf@123	6637	abcd	error
11	xyz@gmail.c om	Asdf@123	abcd	6637	error
12	xyz@gmail.c	Asdf@123	427	""	error

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13	6679	Asdf@12	abcd	abcd	error
14	un	Asdf@12	un	abcd	error
15	un	Asdf@12	abcd	""	error
16	un	Asdf@12	un	""	error
17	xyz	Asdf@12	abcd	abcd	error
18	xyz	Asdf@12	un	abcd	error
19	xyz	Asdf@12	abcd	""	error
20	xyz	Asdf@12	un	433	error
21	xyz@gmail.c om	Asdf@12	abcd	abcd	error
22	xyz@gmail.c om	Asdf@12	433	abcd	error
23	xyz@gmail.c om	Asdf@12	abcd	6637	error
24	xyz@gmail.c om	Asdf@12	6637	6637	error
25	433	Asdf@12345 612378	abcd	abcd	error
26	6633	Asdf@12345 612378	6633	abcd	error
27	6637	Asdf@12345 612378	abcd	6633	error
28	6633	Asdf@12345 612378	6633	437	error
29	xyz	Asdf@12345 612378	abcd	abcd	error
30	xyz	Asdf@12345 612378	6633	abcd	error
31	xyz	Asdf@12345 612378	abcd	6633	error
32	xyz	Asdf@12345	""	""	error

		612378			
33	xyz@gmail.c om	Asdf@12345 612378	abcd	abcd	error
34	xyz@gmail.c om	Asdf@12345 612378	""	abcd	error
35	xyz@gmail.c om	Asdf@12345 612378	abcd	6677	error
36	xyz@gmail.c om	Asdf@12345 612378	6633	637	error
37	6637	Asdf1234	abcd	abcd	error
38	6637	Asdf1234	4633	abcd	error
39	437	Asdf1234	abcd	""	error
40	437	Asdf1234	un	""	error
41	xyz	Asdf1234	abcd	abcd	error
42	xyz	Asdf1234	4633	abcd	error
43	xyz	Asdf1234	abcd	""	error
44	xyz	Asdf1234	un	4237	error
45	xyz@gmail.c om	Asdf1234	abcd	abcd	error
46	xyz@gmail.c om	Asdf1234	433	abcd	error
47	xyz@gmail.c om	Asdf1234	abcd	4425	error
48	xyz@gmail.c om	Asdf1234	423	4433	error
49	4677	437	abcd	abcd	error
50	4279	""	427	abcd	error
51	6677	un	abcd	 "	error
52	6677	un	""	 "	error
53	xyz	6633	abcd	abcd	error

54	xyz	un	""	abcd	error
55	xyz	un	abcd	""	error
56	xyz	un	""	un	error
57	xyz@gmail.c om	un	abcd	abcd	error
58	xyz@gmail.c om	un	4633	abcd	error
59	xyz@gmail.c om	un	abcd	4439	error
60	xyz@gmail.c om	un	6633	u33	error

Register Module For Instructor

Input Classes:

Email field:

E1: Invalid format E2: Valid format

E3: Empty

First Name:

F1: Valid F2: Empty

Last Name:

L1: Valid L2: Empty

Password field:

P1: Empty

P2: less than 8 characters P3: more than 15 characters P4: No special characters

P5: Valid format

Output Classes:

Success Error

Equivalence Class Table:

id	Email	Password	First Name	Last Name	Expected Output
1	E1	any	any	any	Error
2	E3	any	any	any	Error
3	E2	any	F2	any	Error
4	any	any	F1	L2	Error
5	any	P1	any	any	Error
6	any	P2	any	any	Error
7	any	P3	any	any	Error
8	any	P4	any	any	Error
9	E2	P5	F1	L1	Success

Test Cases:

id	Email	Password	First Name	Last Name	Expected Output
1	4679	Asdf@123	abcd	abcd	error
2	6677	Asdf@123	,	abcd	error
3	4679	Asdf@123	abcd	""	error
4	 "	Asdf@123	""	""	error
5	xyz	Asdf@123	abcd	abcd	error
6	xyz	Asdf@123	 "	abcd	error
7	xyz	Asdf@123	abcd	4637	error
8	xyz	Asdf@123	 "	4637	error
9	xyz@gmail.c om	Asdf@123	abcd	abcd	Success
10	xyz@gmail.c om	Asdf@123	""	abcd	error
11	xyz@gmail.c om	Asdf@123	abcd	un	error
12	xyz@gmail.c om	Asdf@123	427	6633	error
13	4677	Asdf@12	abcd	abcd	error
14	4677	Asdf@12	 33	abcd	error
15	,	Asdf@12	abcd	""	error
16	,	Asdf@12	""	""	error
17	xyz	Asdf@12	abcd	abcd	error
18	xyz	Asdf@12	""	abcd	error
19	xyz	Asdf@12	abcd	""	error
20	xyz	Asdf@12	un	""	error
21	xyz@gmail.c om	Asdf@12	abcd	abcd	error

22 xyz@gmail.c om Asdf@12 "" abcd erro 23 xyz@gmail.c om Asdf@12 abcd "" erro 24 xyz@gmail.c om Asdf@12 "" "" erro 25 "" Asdf@12345 om abcd abcd erro 26 "" Asdf@12345 om "" abcd erro 27 "" Asdf@12345 om abcd "" erro	r r r
23	r r
25 "" Asdf@12345 abcd abcd erro 26 "" Asdf@12345 "" abcd erro 612378 "" Asdf@12345 "" abcd erro 612378 abcd erro 27 "" Asdf@12345 abcd "" erro	r r
26 "" Asdf@12345 abcd abcd erro 612378 "" abcd erro 612378 "" abcd erro 612378 abcd erro 612378 abcd erro	r
26 ASdf@12345 abcd erro 612378 27 "" Asdf@12345 abcd "" erro	
27	r
612378	
28 "" Asdf@12345 "" "" erro	r
29 xyz Asdf@12345 abcd abcd erro	r
30 xyz Asdf@12345 "" abcd erro	r
31 xyz Asdf@12345 abcd "" erro	r
32 xyz Asdf@12345 "" erro	r
33 xyz@gmail.c Asdf@12345 abcd abcd erro om 612378	r
34 xyz@gmail.c Asdf@12345 "" abcd erro om 612378	r
35 xyz@gmail.c Asdf@12345 abcd "" erro om 612378	r
36 xyz@gmail.c Asdf@12345 "" erro om 612378	r
37 "" Asdf1234 abcd abcd erro	r
38 "" Asdf1234 "" abcd erro	r
39 "" Asdf1234 abcd "" erro	r
40 "" Asdf1234 "" erro	r

				-	
41	xyz	Asdf1234	abcd	abcd	error
42	xyz	Asdf1234	 "	abcd	error
43	xyz	Asdf1234	abcd	""	error
44	xyz	Asdf1234	""	""	error
45	xyz@gmail.c om	Asdf1234	abcd	abcd	error
46	xyz@gmail.c om	Asdf1234	un	abcd	error
47	xyz@gmail.c om	Asdf1234	abcd	""	error
48	xyz@gmail.c om	Asdf1234	un	un	error
49	""	un	abcd	abcd	error
50	""	un	un	abcd	error
51	4637	un	abcd	4637	error
52	""	un	un	un	error
53	xyz	un	abcd	abcd	error
54	xyz	un	un	abcd	error
55	xyz	un	abcd	un	error
56	xyz	un	""	""	error
57	xyz@gmail.c om	un	abcd	abcd	error
58	xyz@gmail.c om	un	6637	abcd	error
59	xyz@gmail.c om	un	abcd	6637	error
60	xyz@gmail.c om	un	u33	u33	error

Create new Course Module

Input Classes:

Course Name:

E1: Empty course name E2: Valid Course name

Course Code:

CC1: Empty course code CC2: Valid Course Code

Output Classes:

Success Error

Equivalence Class Table:

ID	Course Name	Course Code	Expected Output
1	E1	CC1	Error
2	E1	CC2	Error
3	E2	CC1	Error
4	E2	CC2	Success

Test Cases:

ID	Course Name	Course Code	Expected Output
1	""	IT314	Error
2	""	6633	Error
3	Software Enginerring	IT314	Success
4	Software Engineering	un	Error

Create new Lecture Module

Input Classes:

Lecture Name:

E1: Empty

E2: Valid Lecture name

Duration:

D1: Empty

D2: Valid Input $(5 \le x \le 75)$ D3: Invalid (x<5 or x>75)

Output Classes:

Success

Error

Equivalence Class Table:

Class_ID	lectureName	duration	Expected Output
C1	E1	any	error
C2	E2	D2	success
C3	any	D1	error
C4	any	D3	error

Test Cases:

ID	Lecture Name	Duration	Expected Output
1	4433	6633	error
2	6633	10	error
3	Lecture 1	6639	error
4	Lecture 2	10	success
5	Lecture 1	4	error
6	Lecture 1	76	error
7	Lecture 1	5	success
8	Lecture 1	75	sucess
9	.c. 33	4	error
10	££33	76	error
11	653	5	error
12	 77	75	error