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	P1	Success
C5	E3	any	Error

Boundary Value Analysis:

ID	Email	Password	Expected Output
1	""	2234	Error
2	""	""	Error
3	lksjdflk	324234	Error
4	lksdfj	""	Error
5	klfsjdflkj@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	Password	Expected Output
C1	E1,E3	P1	Error
C2	E1,E3	P2	Error
C3	E1,E2,E3	P3	Error
C4	E2	P1	Success
C5	E2	P2	Invalid Password

Boundary Value Analysis:

ID	Email	Password	Expected Output
1	""	2234	Error
2	""	""	Error
3	lksjdflk	324234	Error
4	lksdfj	""	Error
5	klfsjdflkj@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.

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	""	error
4	""	Asdf@123	""	""	error
5	xyz	Asdf@123	abcd	abcd	error
6	xyz	Asdf@123	""	abcd	error
7	xyz	Asdf@123	abcd	""	error
8	xyz	Asdf@123	""	""	error
9	xyz@gmail.com	Asdf@123	abcd	abcd	Success
10	xyz@gmail.com	Asdf@123	""	abcd	error
11	xyz@gmail.com	Asdf@123	abcd	""	error
12	xyz@gmail.c	Asdf@123	""	""	error

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13	""	Asdf@12	abcd	abcd	error
14	""	Asdf@12	""	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	""	""	error
21	xyz@gmail.com	Asdf@12	abcd	abcd	error
22	xyz@gmail.com	Asdf@12	""	abcd	error
23	xyz@gmail.com	Asdf@12	abcd	""	error
24	xyz@gmail.com	Asdf@12	""	""	error
25	""	Asdf@12345612378	abcd	abcd	error
26	""	Asdf@12345612378	""	abcd	error
27	""	Asdf@12345612378	abcd	""	error
28	""	Asdf@12345612378	""	""	error
29	xyz	Asdf@12345612378	abcd	abcd	error
30	xyz	Asdf@12345612378	""	abcd	error
31	xyz	Asdf@12345612378	abcd	""	error
32	xyz	Asdf@12345	""	""	error

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33	xyz@gmail.com	Asdf@12345612378	abcd	abcd	error
34	xyz@gmail.com	Asdf@12345612378	""	abcd	error
35	xyz@gmail.com	Asdf@12345612378	abcd	""	error
36	xyz@gmail.com	Asdf@12345612378	""	""	error
37	""	Asdf1234	abcd	abcd	error
38	""	Asdf1234	""	abcd	error
39	""	Asdf1234	abcd	""	error
40	""	Asdf1234	""	""	error
41	xyz	Asdf1234	abcd	abcd	error
42	xyz	Asdf1234	""	abcd	error
43	xyz	Asdf1234	abcd	""	error
44	xyz	Asdf1234	""	""	error
45	xyz@gmail.com	Asdf1234	abcd	abcd	error
46	xyz@gmail.com	Asdf1234	""	abcd	error
47	xyz@gmail.com	Asdf1234	abcd	""	error
48	xyz@gmail.com	Asdf1234	""	""	error
49	""	""	abcd	abcd	error
50	""	""	""	abcd	error
51	""	""	abcd	""	error
52	""	""	""	""	error
53	xyz	""	abcd	abcd	error

54	xyz	""	""	abcd	error
55	xyz	""	abcd	""	error
56	xyz	""	""	""	error
57	xyz@gmail.com	""	abcd	abcd	error
58	xyz@gmail.com	""	""	abcd	error
59	xyz@gmail.com	""	abcd	""	error
60	xyz@gmail.com	""	""	""	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	""	Asdf@123	abcd	abcd	error
2	""	Asdf@123	""	abcd	error
3	""	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	""	error
8	xyz	Asdf@123	""	""	error
9	xyz@gmail.com	Asdf@123	abcd	abcd	Success
10	xyz@gmail.com	Asdf@123	""	abcd	error
11	xyz@gmail.com	Asdf@123	abcd	""	error
12	xyz@gmail.com	Asdf@123	""	""	error
13	""	Asdf@12	abcd	abcd	error
14	""	Asdf@12	""	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	""	""	error
21	xyz@gmail.com	Asdf@12	abcd	abcd	error

22	xyz@gmail.com	Asdf@12	""	abcd	error
23	xyz@gmail.com	Asdf@12	abcd	""	error
24	xyz@gmail.com	Asdf@12	""	""	error
25	""	Asdf@12345612378	abcd	abcd	error
26	""	Asdf@12345612378	""	abcd	error
27	""	Asdf@12345612378	abcd	""	error
28	""	Asdf@12345612378	""	""	error
29	xyz	Asdf@12345612378	abcd	abcd	error
30	xyz	Asdf@12345612378	""	abcd	error
31	xyz	Asdf@12345612378	abcd	""	error
32	xyz	Asdf@12345612378	""	""	error
33	xyz@gmail.com	Asdf@12345612378	abcd	abcd	error
34	xyz@gmail.com	Asdf@12345612378	""	abcd	error
35	xyz@gmail.com	Asdf@12345612378	abcd	""	error
36	xyz@gmail.com	Asdf@12345612378	""	""	error
37	""	Asdf1234	abcd	abcd	error
38	""	Asdf1234	""	abcd	error
39	""	Asdf1234	abcd	""	error
40	""	Asdf1234	""	""	error

41	xyz	Asdf1234	abcd	abcd	error
42	xyz	Asdf1234	""	abcd	error
43	xyz	Asdf1234	abcd	""	error
44	xyz	Asdf1234	""	""	error
45	xyz@gmail.com	Asdf1234	abcd	abcd	error
46	xyz@gmail.com	Asdf1234	""	abcd	error
47	xyz@gmail.com	Asdf1234	abcd	""	error
48	xyz@gmail.com	Asdf1234	""	""	error
49	""	""	abcd	abcd	error
50	""	""	""	abcd	error
51	""	""	abcd	""	error
52	""	""	""	""	error
53	xyz	""	abcd	abcd	error
54	xyz	""	""	abcd	error
55	xyz	""	abcd	""	error
56	xyz	""	""	""	error
57	xyz@gmail.com	""	abcd	abcd	error
58	xyz@gmail.com	""	""	abcd	error
59	xyz@gmail.com	""	abcd	""	error
60	xyz@gmail.com	""	""	""	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	""	""	Error
3	Software Enginerring	IT314	Success
4	Software Engineering	""	Error

Create new Lecture Module

Input Classes:

Lecture Name:
      E1: Empty
      E2: Valid Lecture name
 Duration:
      D1: Empty
      D2: Valid Input (5 ≤ x ≤ 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	""	""	error
2	""	10	error
3	Lecture 1	""	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	""	4	error
10	""	76	error
11	""	5	error
12	""	75	error