# **IT314: Software Engineering**

# **Black Box Testing**



**Group: 15 Conference Management System**

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1. For the Sign-up Page:

* To use the functionalities of the system, a simple Sign up screen of software or a web application will be tested for the user sign-up.
* The Sign-up screen has four fields: Username, Email ID, Password and Confirm Password as input and the output will be to enable access to the system.
* A black box testing for this portal will not consider the specifications of the code, rather it will test the valid email and password to create the right account.
* This form of testing will check the input and the output where the output is possibly of 2 types:

1. A user inputs a correct username and password that exists in the system database. Hence, he/she can log in.

OR

1. A user inputs an incorrect username and password that does not exist in the database. Hence, he/she will receive an “error message”.

* Equivalence Class Partitioning:
* As 2 inputs can either be correct or incorrect, there will be a total of 24= 16 Equivalence classes.
* The Table for the equivalent classes is given below:

| Equivalence Classes | Username | Email | Password | Confirm Password | Expected Output |
| --- | --- | --- | --- | --- | --- |
| E1 | Valid | Valid | Valid | Valid | Successful |
| E2 | Valid | Valid | Valid | Invalid | Error |
| E3 | Valid | Valid | Invalid | Valid | Error |
| E4 | Valid | Valid | Invalid | Invalid | Error |
| E5 | Valid | Invalid | Valid | Valid | Error |
| E6 | Valid | Invalid | Valid | Invalid | Error |
| E7 | Valid | Invalid | Invalid | Valid | Error |
| E8 | Valid | Invalid | Invalid | Invalid | Error |
| E9 | Invalid | Valid | Valid | Valid | Error |
| E10 | Invalid | Valid | Valid | Invalid | Error |
| E11 | Invalid | Valid | Invalid | Valid | Error |
| E12 | Invalid | Valid | Invalid | Invalid | Error |
| E13 | Invalid | Invalid | Valid | Valid | Error |
| E14 | Invalid | Invalid | Valid | Invalid | Error |
| E15 | Invalid | Invalid | Invalid | Valid | Error |
| E16 | Invalid | Invalid | Invalid | Invalid | Error |

* For the Test cases, the following cases will be possible that are given as below:
* For taking the Sign up credentials, the following criteria should be met to successfully login into the website:

1. Every field is compulsory to fill.
2. The Email ID should be a registered email and should have a @gmail, @yahoo, etc. extension.
3. The Email ID should be UNIQUE, i.e. it should not be existing already.
4. The Password should be a minimum of 8 characters and a Maximum of 15 characters which should include AT LEAST ONE lowercase letter, an Upper case letter, a number and a special character.
5. Confirm the password's value should be the same as the password field.

| Test case | Email | Organization name/User name | Password | Confirm Password | Output | Reason |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | parvadhami@gmail.com | Parva | parvaThe@ | parvaThe@ | Success |  |
| 2 | parva@gmail.com | Parva123 | Ppp123#09999990 | Ppp123#09999990 | Error | Password exceeds length |
| 3 | sarthakmsonagara@gmail.com | Sarthak2002 | sOnagara314# | sonagara314# | Error | Passwords don’t match |
| 4 |  | Champ | 786#22Mann | `786#22Mann | Error | Email missing |
| 5 | 202001134@daiict.ac.in |  | Pol23##l | Pol23##l | Error | Username missing |
| 6 | shams@yahoo.com | Shams |  | 90#mnn | Error | Password missing |
| 7 | drishti@gmail.com | Drishti | PPP23mnn |  | Error | Confirm password missing |
| 8 | babu234@gmail.com | babumoshai | Polygo##l | Polygo##l | Error | Password criteria not met |
| 9 | shaily1988@gmail.com | Shaily123 | !@#$%^&\*11 | !@#$%^&\*11 | Error | Password criteria not met |
| 10 | cyrus550@gmail.com | cyrusthegreat | pok@mOn | pok@mOn | Error | Password criteria not met |
| 11 | fillagmail.com | Fillan | Gaza@123 | Gaza@123 | Error | Password criteria not met |
| 12 | dora1234@gmail.com | Dora | Po23$$ | Po23$$ | Error | Password criteria not met |
| 13 |  |  |  |  | Error | Every field is blank |
| 14 | parvadhami@gmail.com | poker | Ram123@# | Ram123@# | Error | Email Already Exists |

**Note:** For User Sign up, there shall be an EXTRA field that shall ask the User whether his/her ‘Role’ is that of:

1. Publisher
2. Attendee

The User will have to compulsorily check the ‘radio’ box to make an account.

Hence, the Test case table for the user shall remain as above EXCEPT that it will include the aforementioned criterion.

2. For Login Page:

**2. For the Login Page:**

* For the Login page, there shall be two inputs:

1. Email ID
2. Password

* The System shall check if the Email ID and the Password that has been entered have been registered in its Database.
* The Equivalence Class Partitioning for this scenario will be:

| Equivalence Classes | Email | Password | Expected Output |
| --- | --- | --- | --- |
| E1 | Valid | Valid | Successful |
| E2 | Valid | Invalid | Error |
| E3 | Invalid | Valid | Error |
| E4 | Invalid | Invalid | Error |