Experiment No. 8

Title: Test Cases for Black box Testing

Name of Student:Owais Mirajkar

Roll No. : 26

Date : ___ / ___ / _____

Subject In-charge Sign:

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Aim: Write test cases for Black box testing

Theory:

Software Testing:

Testing is the process of executing a program with the aim of finding errors. To make our software perform well it should be error-free.

Test Case:

A test case is a document, which has a set of test data, preconditions, expected results and post conditions, developed for a particular test scenario in order to verify compliance against a specific requirement.

Test Case acts as the starting point for the test execution, and after applying a set of input values, the application has a definitive outcome and leaves the system at some end point or also known as execution post condition.

The test case includes specific variables or conditions, using which a testing engineer can compare expected and actual results to determine whether a software product is functioning as per the requirements of the customer.

Test Case vs Test Scenario:

A TEST CASE is a set of actions executed to verify a particular feature or functionality of your software application.

A Test Scenario is defined as any functionality that can be tested. It is a collective set of test cases which helps the testing team to determine the positive and negative characteristics of the project.

Test Scenario gives a high-level idea of what we need to test.

Test cases for:

Functional Test Cases:-

Functional Test Cases	**Type- Negative/ Positive Test Case**
Verify if a user will be able to login with a valid username and valid password	Positive
Verify if a user cannot login with a valid username and an invalid password.	Negative
Verify the login page for both, when the field is blank and Submit button is clicked.	Negative
Verify the ‘Forgot Password’ functionality.	Positive
Verify the messages for invalid login.	Positive
Verify the ‘Remember Me’ functionality	Positive
Verify if the data in password field is either visible as asterisk or bullet signs.	Positive
Verify if a user is able to login with a new password only after he/she has changed the password.	Positive
Verify if the login page allows to log in simultaneously with different credentials in a different browser	Positive
Verify if the ‘Enter’ key of the keyboard is working correctly on the login page.	Positive
Verify the time taken to log in with a valid username and password.	Performance and Positive testing
Verify if there is a ‘Cancel’ button available to erase the entered text.	Usability testing

Verify the login page and all its controls in different browsers	Browser compatibility and positive testing
Verify if the font, text color, and color coding of the Login page is as per the standard.	UI testing and positive testing

Non Functional Security Test Cases:-

Verify if a user cannot enter the characters more than the specified range in each field (Username and Password).	Negative
Verify if a user cannot enter the characters more than the specified range in each field (Username and Password).	Positive
Verify the login page by pressing ‘Back button’ of the browser. It should not allow you to enter into the system once you log out.	Negative
Verify the timeout functionality of the login session	Positive
Verify if a user should not be allowed to log in with different credentials from the same browser at the same time.	Negative
Verify if a user should be able to login with the same credentials in different browsers at the same time.	Positive
Verify the Login page against SQL injection attack.	Negative
Verify the implementation of SSL certificate.	Positive

Conclusion: After successful completion of this lab, the students will be able to perform black box testing on their selected project.