**Practical no.-10**

**Objective:-**Design the Test Cases for a sample Login Page.

**Theory:** A **TEST CASE** is a set of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly.

The process of developing test cases can also help find problems in the requirements or design of an application.

**Purpose/Benefits of Writing Test Cases:**

The key purpose of a test case is to ensure if different features within an application are working as expected. It helps tester, validate if the software is free of defects and if it is working as per the expectations of the end users. Other benefits of test cases include:

* + - Test cases ensure good test coverage
    - Help improve the quality of software,
    - Decreases the maintenance and software support costs
    - Help verify that the software meets the end user requirements
    - Allows the tester to think thoroughly and approach the tests from as many angles as possible
    - Test cases are reusable for the future – anyone can reference them and execute the test.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case id | Test cases | Priority | Preconditions | Input test data | steps to be executed | Expected results | Actual Results |
| 1 | Test if user is able to login successfully. | A | User must be registered already | correct username,correct password | 1)Enter input(correct )username and password on the respective fields 2)click submit/login | User must successfully login to the web page | User is logged in |
| 2 | Test if unregistered users is not able to login to the site | A |  | incorrect username,incorrect password | 1)Enter input(incorrect )username and password on the respective fields 2)click submit/login | Proper error must be displayed and prompt to enter login again | displays error and prompts to enter login credentials again |
| 3 | Test with valid username and empty password such that login must get failed | B | User must be registered already | valid username and empty password | 1)enter the valid username in the user id and enter no password in the password field | Proper error must be displayed and prompt to enter login again | displays error and prompts to enter login credentials again |
| 4 | Test with empty username and valid password such that login must get failed | B | registered user's password | empty username and valid password | 1)leave the username empty in the user id and enter a valid user's password in the password field | Proper error must be displayed and prompt to enter login again | displays error and prompts to enter login credentials again |
| 5 | Test with empty username and empty password and check if login fails | A | - | - | 1)Enter nothing in the mail id and password field 2)click submit button | Proper error must be displayed and prompt to enter login again | displays error and prompts to enter login credentials again |
| 6 | Check of the password is masked on the screen i.e., password must be in bullets or asterisks | B |  | some password(can be a registered/unregistered) | 1) Enter the password field with some characters | The password field should display the characters in asterisks or bullets such that the password is not visible on the screen | displays the password in masked form |
| 7 | Check if the login function handles case sensitivity | B | registered user's password which is originally in lower case changed to upper case or vice versa | case changed username /password | 1)Enter the case changed username /password in the respective field and 2)click login button | Login must fail saying incorrect username/password | displays error and prompts to enter login credentials again |
| 8 | After logging in try to copy/cut the password and paste it on another screen(passwords are usually in \* such that its not visible on the screen) | B |  | Registered user's login id and password | 1)Enter username and password in the respective fields. Copy the password field's content(which is in \*s) 3)paste the content on another screen | password shouldn’t get pasted / password should not be visible on the screen | displays blank password field |
| 9 | Verify account lock | B |  | Registered user's login id and incorrect password | 1)Try to login with a registered user name and incorrect password for more than 3 times | Account should be locked and access should be granted only after gettting certain assurance from the user | account gets locked |
| 10 | Check if on selecting back button (after logging out) if the user is not signed in | B |  | Registered username and password | 1)Login with registered username and password 2)once your are logged in, sign out of the site 3)now press back button | User shouldn’t be signed in to his account rather a general webpage must be visible | displays a general page |
| 11 | Verify the url without logging into to the site | B |  | Registered username and password | 1) Login to the site using registered username and password 2)copy and save the url of the logged in page 3)logout of the site 4)now paste the copied url on the browser | the url should not redirect to a logged in page but to a logged out page of the site | displays the logged out page |
| 12 | Automatic logout of the site when pressing backspace button | B | User must be registered already | Registered username and password | 1) Login to the site using registered username and password 2)now press backspace | User must logout of the site properly | user is logged out of the site |