Software Testing

Q.No. 1) Write Test Cases for a Login Page :

1. Email/Phone Number/Username Textbox
2. Password Textbox
3. Login Button
4. Remember Me Checkbox
5. Keep Me Signed In Checkbox
6. Forgot Password Link
7. Sign up/Create an account Link

Q.No. 2) Write the Test Scenarios of Gmail Inbox Functionality.

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1> Test Cases for a Login Page

When creating test cases for a login page, it's important to cover a variety of scenarios to ensure the page functions correctly and securely. Here are some common test cases for a login page:

1. Successful Login

Test Case 1.1: Valid Credentials

- **Description** : Verify that a user can log in with valid credentials.

- **Steps** :
    1. Enter a valid username.
    2. Enter the correct password for that username.
    3. Click the "Login" button.

- **Expected Result** : The user is successfully logged in and redirected to the homepage or dashboard.
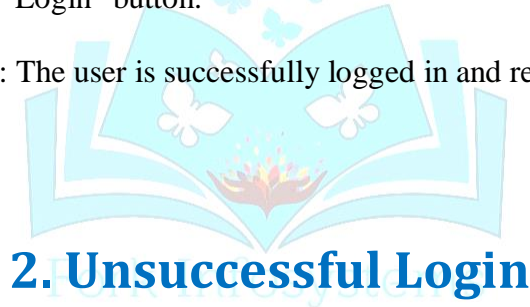
2. Unsuccessful Login

Test Case 2.1: Invalid Username

- **Description** : Verify that an error message is displayed when an invalid username is entered.

- **Steps** :
    1. Enter an invalid username.
    2. Enter a valid password.
    3. Click the "Login" button.

- **Expected Result** : An error message is displayed indicating invalid username.

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Test Case 2.2: Invalid Password

● **Description**: Verify that an error message is displayed when an invalid password is entered.

● **Steps** :
      1. Enter a valid username.
      2. Enter an incorrect password.
      3. Click the "Login" button.

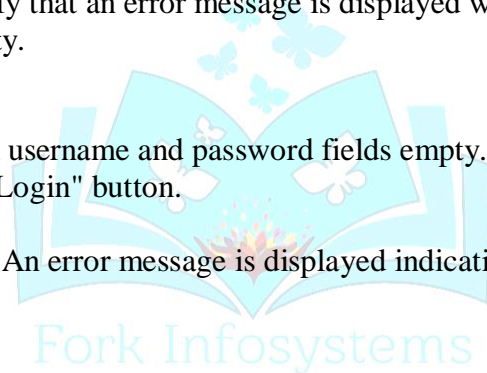● **Expected Result** : An error message is displayed indicating invalid password.

Test Case 2.3: Both Fields Empty

● **Description** : Verify that an error message is displayed when both username and password fields are left empty.

● **Steps** :
      1. Leave both username and password fields empty.
      2. Click the "Login" button.

● **Expected Result** : An error message is displayed indicating that both fields are required.

3. Field Validation

Test Case 3.1: Username Field Validation

● **Description** : Verify that the username field accepts only valid characters.

● **Steps** :
      1. Enter special characters or invalid input in the username field.
      2. Click the "Login" button.

● **Expected Result** : An error message is displayed or input is rejected.

Test Case 3.2: Password Field Validation

● **Description** : Verify that the password field accepts the correct format (e.g., minimum length, required characters).

● **Steps** :
    1. Enter a password that does not meet the security criteria.
    2. Click the "Login" button.

● **Expected Result** : An error message is displayed indicating that the password does not meet the requirements.

4. UI Elements

Test Case 4.1: Presence of Login Button

● **Description** : Verify that the login button is present on the page.

● **Steps** :
    1. Load the login page.

● **Expected Result** : The "Login" button is visible and clickable.

Test Case 4.2: Presence of Forgot Password Link

● **Description**: Verify that the "Forgot Password" link is present and functional.

● **Steps**:
    1. Load the login page.
    2. Click the "Forgot Password" link.

● **Expected Result** : The user is redirected to the password recovery page.

5. Security

Test Case 5.1: SQL Injection

- **Description**: Verify that the login form is protected against SQL injection attacks.

- **Steps**:
    1. Enter SQL injection code in the username or password fields.
    2. Click the "Login" button.

- **Expected Result**: The system should reject the input and not execute any harmful commands.

Test Case 5.2: Password Masking

- **Description** : Verify that the password is masked when typed.

- **Steps** :
    1. Enter a password in the password field.

- **Expected Result** : The characters should be displayed as dots or asterisks.
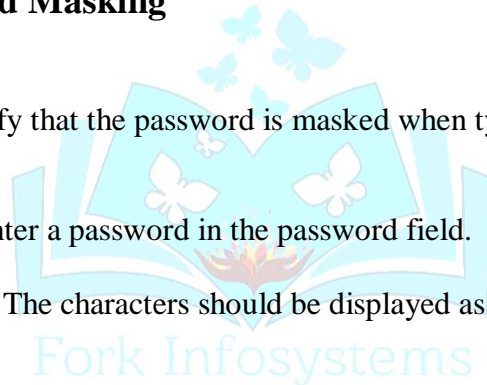
6. Usability

Test Case 6.1: Error Message Clarity

- **Description** : Verify that error messages are clear and helpful.

- **Steps** :
    1. Enter invalid credentials.
    2. Click the "Login" button.

- **Expected Result** : The error message should clearly indicate the problem (e.g., "Invalid username or password").

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Test Case 6.2: Successful Login Redirect

- **Description**: Verify that a successful login redirects the user to the correct page.

- **Steps** :
  1. Enter valid credentials.
  2. Click the "Login" button.

- **Expected Result** : The user is redirected to the homepage, dashboard, or the page they were trying to access.

7. Compatibility

Test Case 7.1: Cross-Browser Compatibility

- **Description** : Verify that the login page functions correctly across different web browsers.

- **Steps** :
  1. Open the login page in various browsers (e.g., Chrome, Firefox, Safari, Edge).
  2. Perform login actions in each browser.

- **Expected Result** : The login page behaves consistently across all tested browsers.

Test Case 7.2: Mobile Responsiveness

- **Description** : Verify that the login page is responsive and usable on mobile devices.

- **Steps** :
  1. Open the login page on various mobile devices.
  2. Perform login actions on each device.

- **Expected Result** : The login page should display correctly and be functional on all tested devices.

These test cases help ensure the login page is robust, user-friendly, and secure. Adjust and expand them based on your specific application and requirements.

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