**Website Registration Form**

**TEST PLAN**

**Test Plan**

**Introduction:**

This test plan covers the testing of registration form of online platform. The form contains the following fields full name, email address, password (at least 8 characters), confirm password, date of birth, gender (Male/Female), Newsletter Subscription (Yes/No) and submit button. The registration form will gather the user information, validate the all input fields and submit the data to sever upon successful submission.

**Objective:**

* To verify that all fields of registration form accept valid inputs.
* To verify that all fields are properly validated as per requirement.
* To verify that proper error messages displayed upon invalid input.
* To verify that form submits data upon successfully submission.

**Scope:**

* Functional testing of registration form.
* Validation testing of registration form’s fields.
* Testing of proper error messages.
* Testing of accurate data submission.
* Usability testing of registration form.

**Test Environment:**

* **Browsers:** Chrome, Microsoft Edge, FireFox, Safari
* **Devices:** Laptop, Mobile, Tablet
* **Operating System:** Windows, MacOS
* **Server:** Testing Servers

**Test Data:**

* Data sets of valid and invalid input values for all input fields of registration form.
* Testing emails.
* Boundary values testing for minimum length of password.

**Test Scenarios:**

* Enter invalid and valid input values in each field.
* Submit empty form.
* Submit form with valid and invalid data.
* Check across different browsers and devices.

**Test Execution Schedule:**

* **Day 1:** Test plan prepration and set QA environment.
* **Day 1:** Writing test cases and execute them manually.
* **Day 1:** Automate written test case.
* **Day 2:** Prepare bug report submit it and retest it.

**Risks and Assumptions:**

* **Risk:** Test environment instability.
* **Risk:** Delay in fixing.
* **Assumption:** Testing environment is replica of live.
* **Assumption:** It is online website which takes user to home page after registration.

**Test Cases**

1. **Test Case 1:**

* **Test Case ID:** RF01
* **Test Case Description:** Verify that form accepts valid inputs and submit it successfully with newsletter subscription.
* **Pre-Conditions:** User is on registration form with empty all input fields.
* **Test Steps:**

1. Enter a valid full name.
2. Enter valid email address.
3. Enter valid password as per requirement.
4. Enter confirm password.
5. Select ­valid date of birth.
6. Select a gender from drop-down.
7. Select” Yes” for the newsletter subscription.
8. Click on the submit button.

* **Expected Result:** Form submits successfully, register user and redirect user to home page.
* **Post- Conditions:** User is registered with newsletter subscription, all input fields empty, data submitted to server and user is in home page.

1. **Test Case 2:**

* **Test Case ID:** RF02
* **Test Case Description:** Verify that form displays proper error message for invalid email address with newsletter subscription.
* **Pre-Conditions:** User is on registration form with empty all input fields. .
* **Test Steps:**

1. Enter valid full name.
2. Enter invalid email address.
3. Enter valid password as per requirement.
4. Enter confirm password.
5. Select ­valid date of birth.
6. Select a gender from drop-down.
7. Select” Yes” for the newsletter subscription.
8. Click on the submit button.

* **Expected Result:** Error message displayed that informed user about email address is invalid.
* **Post- Conditions:** User remain on the registration form with input values in all fields which user filled before clicking on submit button.

1. **Test Case 3:**

* **Test Case ID:** RF03
* **Test Case Description:** Verify that form displays proper error message for entering characters less than defined character limit on password field with newsletter subscription .
* **Pre-Conditions:** User is on registration form with empty all input fields.
* **Test Steps:**

1. Enter valid full name.
2. Enter valid email address.
3. Enter invalid password (characters length less than defined) as per requirement.
4. Enter confirm password.
5. Select ­valid date of birth.
6. Select a gender from drop-down.
7. Select” yes” for the newsletter subscription.
8. Click on the submit button.

* **Expected Result:** Error message displayed that informed user about minimum character length of password field.
* **Post- Conditions:** User remain on the registration form with input values in all fields which user filled before clicking on submit button.

**Test Scenarios**

* **Positive Scenarios:**

1. **Successful Registration with Newsletter subscription.**
   * + Enter valid data in all input fields, selects “Yes” for newsletter subscription and click on submit button.
     + User registers successfully and redirected to home page.
2. **Successful Registration without Newsletter subscription.**
   * + Enter valid data in all input fields, select “No” for newsletter subscription and click on submit button.
     + User registers successfully and redirected to home page.

* **Negative Scenarios:**

1. **Invalid Email address with Newsletter subscription.**
   * + Enter valid data in all input fields except email address, selects “Yes” for newsletter subscription and click on submit button.
     + User remain there with data filled in all input fields and error message displayed that informed user about email address is invalid.
2. **Mismatched Password and Confirm Password field’s data with Newsletter subscription.**
   * + Enter valid data in all input fields except confirm password, selects “Yes” for newsletter subscription and click on submit button.
     + User remain there with data filled in all input fields and error message displayed that informed user about password and confirm password doesn’t match with each other.

**Test Scrips**

1. **Positive Scenario 1:**

from selenium import webdriver   
from selenium.webdriver.common.by import By   
from selenium.webdriver.common.keys import Keys

def test\_successful\_registration\_with\_subscription\_of\_newsletter(self):

driver = webdriver.Chrome()

driver.get('Registration form URL')

driver.find\_element(By.ID, 'fullName').send\_keys('Umer Sajjed')   
driver.find\_element(By.ID, 'email').send\_keys('umersajjad101@gmail.com') driver.find\_element(By.ID, 'password').send\_keys('12345678')   
driver.find\_element(By.ID, 'confirmPassword').send\_keys('12345678') driver.find\_element(By.ID, 'dob').send\_keys('1998-11-21')   
  
driver.find\_element(By.ID, 'gender').click()  
driver.find\_element(By.ID, 'male').click()  
  
driver.find\_element(By.ID, 'newsletter').click()  
driver.find\_element(By.ID, 'yes').click()  
r.n all input fields, select n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
driver.find\_element(By.ID, 'submit').click()   
  
self.assertEqual(driver.current\_url, ‘home page url’)

1. **Positive Scenario 2:**

from selenium import webdriver   
from selenium.webdriver.common.by import By   
from selenium.webdriver.common.keys import Keys

def def test\_successful\_registration\_without\_subscription\_of\_newsletter(self):

driver = webdriver.Chrome()

driver.get('Registration form URL')

driver.find\_element(By.ID, 'fullName').send\_keys('Umer Sajjed')   
driver.find\_element(By.ID, 'email').send\_keys('umersajjad101@gmail.com') driver.find\_element(By.ID, 'password').send\_keys('12345678')   
driver.find\_element(By.ID, 'confirmPassword').send\_keys('12345678') driver.find\_element(By.ID, 'dob').send\_keys('1998-11-21')   
  
driver.find\_element(By.ID, 'gender').click()  
driver.find\_element(By.ID, 'male').click()  
  
driver.find\_element(By.ID, 'newsletter').click()  
driver.find\_element(By.ID, 'no').click()r.n all input fields, select n\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

driver.find\_element(By.ID, 'submit').click()

self.assertEqual(driver.current\_url, ‘home page url’)