**Test Automation For Positive scenarios of Online Registration Form**

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**Test Environment**

1. **Python Latest Version**:
2. **Selenium Latest Version**:
3. **WebDriver**: ChromeDriver (for Google Chrome)

**Positive Scenario no 1:**

**Successful Form Submission**

**Assumption**

1. Assumed the registration form has link "[http://your-registration-form-url.com](http://your-registration-form-url.com" \t "_new)".
2. Assumed browser as chrome
3. Assumed gender as Radio Button
4. Assumed newsletter subscription Field as checkbox
5. **Locators**:
   * Full Name field: Located by NAME attribute "full\_name".
   * Email Address field: Located by NAME attribute "email".
   * Password field: Located by NAME attribute "password".
   * Confirm Password field: Located by NAME attribute "confirm\_password".
   * Date of Birth field: Located by NAME attribute "dob".
   * Gender field: Male option located by XPATH with value "male".
   * Newsletter Subscription toggle: Located by NAME attribute "newsletter".
   * Submit button: Located by NAME attribute "submit".
   * Success message: Located by ID attribute "success-message"

**Code:**

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

driver = webdriver.Chrome(executable\_path='/path/to/chromedriver')

try:

driver.get("http://your-registration-form-url.com")

driver.find\_element(By.NAME, "full\_name").send\_keys("Masaid Zeb")

driver.find\_element(By.NAME, "email").send\_keys("Masaid.zeb2244@gmail.com")

driver.find\_element(By.NAME, "password").send\_keys("Masaid@123")

driver.find\_element(By.NAME, "confirm\_password").send\_keys("Masaid@123")

driver.find\_element(By.NAME, "dob").send\_keys("1999-12-09")

gender\_male = driver.find\_element(By.XPATH,"//input[@name='gender'][@value='male']")

if not gender\_male.is\_selected():

gender\_male.click()

newsletter\_toggle = driver.find\_element(By.NAME, "newsletter")

if newsletter\_toggle.is\_selected():

newsletter\_toggle.click()

driver.find\_element(By.NAME, "submit").click()

success\_message = WebDriverWait(driver, 10).until(

EC.visibility\_of\_element\_located((By.ID, "success-message"))

)

assert "Registration successful" in success\_message.text

print("Form submission test passed.")

except Exception as e:

print(f"An error occurred: {e}")

finally:

driver.quit()

**Positive Scenario no 2:**

**Verify that the Date of Birth field accepts a valid date format (YYYY-MM-DD).**

**Assumption:**

 **URL**:

* The registration form is located at "<http://your-registration-form-url.com>".

 **Locators**:

* **Full Name field**: Located by the NAME attribute "full\_name".
* **Email Address field**: Located by the NAME attribute "email".
* **Password field**: Located by the NAME attribute "password".
* **Confirm Password field**: Located by the NAME attribute "confirm\_password".
* **Date of Birth field**: Located by the NAME attribute "dob".
* **Date of Birth error message**: Located by the ID attribute "dob-error-message".

 **Date of Birth Error Message**:

* An error message appears if the Date of Birth field does not accept the input format (YYYY-MM-DD).
* The error message element has an ID of "dob-error-message".

 **Error Message Absence**:

* If the Date of Birth format is correct, no error message should appear, and error\_message.text should be an empty string.

**Code:**

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

driver = webdriver.Chrome(executable\_path='/path/to/chromedriver')

try:

driver.get("http://your-registration-form-url.com")

driver.find\_element(By.NAME, "full\_name").send\_keys("Masaid Zeb")

driver.find\_element(By.NAME, "email").send\_keys("Masaid.zeb2244@gmail.com")

driver.find\_element(By.NAME, "password").send\_keys("Masaid@123")

driver.find\_element(By.NAME, "confirm\_password").send\_keys("Masaid@123")

dob\_field = driver.find\_element(By.NAME, "dob")

dob\_field.send\_keys("1999-12-09")

dob\_field.send\_keys("\t")

error\_message = WebDriverWait(driver, 5).until(

EC.visibility\_of\_element\_located((By.ID, "dob-error-message"))

)

assert error\_message.text == "", "Date of Birth field should accept a valid date format (YYYY-MM-DD)"

print("Date of Birth field accepts valid date format (YYYY-MM-DD) test passed.")

except Exception as e:

print(f"An error occurred: {e}")

finally:

driver.quit()

**Positive Scenario no 3:**

**Field Validation for correct Inputs**

**Test Environment**

1. **Python Latest Version**:
2. **Selenium Latest Version**:
3. **WebDriver**: ChromeDriver (for Google Chrome)

**Assumption**

1. Assumed the registration form has link "[http://your-registration-form-url.com](http://your-registration-form-url.com" \t "_new)".
2. Assumed browser as chrome
3. Assumed gender as Radio Button
4. Assumed newsletter subscription Field as checkbox

**Locators**:

* + Full Name field: Located by NAME attribute "full\_name".
  + Email Address field: Located by NAME attribute "email".
  + Password field: Located by NAME attribute "password".
  + Confirm Password field: Located by NAME attribute "confirm\_password".
  + Date of Birth field: Located by NAME attribute "dob".
  + Gender field: Male option located by XPATH with value "male".
  + Newsletter Subscription toggle: Located by NAME attribute "newsletter".
  + Submit button: Located by NAME attribute "submit".
  + Success message: Located by ID attribute "success-message".

**Code:**

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC

driver = webdriver.Chrome(executable\_path='/path/to/chromedriver')

try:

driver.get("http://your-registration-form-url.com")

driver.find\_element(By.NAME, "full\_name").send\_keys("Masaid Zeb")

driver.find\_element(By.NAME, "email").send\_keys("Masaid.zeb2244@gmail.com")

driver.find\_element(By.NAME, "password").send\_keys("Masaid@123")

driver.find\_element(By.NAME, "confirm\_password").send\_keys("Masaid@123")

driver.find\_element(By.NAME, "dob").send\_keys("1999-12-09")

gender\_male = driver.find\_element(By.XPATH, "//input[@name='gender'][@value='male']")

if not gender\_male.is\_selected():

gender\_male.click()

newsletter\_toggle = driver.find\_element(By.NAME, "newsletter")

if newsletter\_toggle.is\_selected():

newsletter\_toggle.click()

driver.find\_element(By.NAME, "submit").click()

success\_message = WebDriverWait(driver, 10).until(

EC.visibility\_of\_element\_located((By.ID, "success-message"))

)

assert "Registration successful" in success\_message.text

print("Form submission test passed.")

except Exception as e:

print(f"An error occurred: {e}")

finally:

driver.quit()