

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>".
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>".
- 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, "//*[@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()
```