**Lab Exercise 20 – Auto form filling Selenium WebDriver for Microsoft Edge in RPA with Python**

Let's walk through an example of filling out a form from the website [**https://selenium-practice.netlify.app/**](https://selenium-practice.netlify.app/) using **Selenium** with **Microsoft Edge**.

**Steps to Complete the Exercise:**

1. **Setup Environment**:
   * Ensure that **Microsoft Edge** and **EdgeDriver** are installed and configured.
   * Install **Selenium** via pip install selenium.
2. **Write Python Code** to Automate Form Submission on [**https://selenium-practice.netlify.app/**](https://selenium-practice.netlify.app/).

**Python Script to Fill the Form:**

from selenium import webdriver  
from selenium.webdriver.common.keys import Keys  
from selenium.webdriver.common.by import By  
from selenium.webdriver.edge.service import Service  
import time  
import os  
  
from selenium.webdriver.support.select import Select  
  
*# Path to your Microsoft Edge WebDriver*edge\_driver\_path = os.path.abspath('C:/webdrivers/msedgedriver.exe') *# Update with your WebDriver path  
  
# Create a Service object with the path to the WebDriver*service = Service(executable\_path=edge\_driver\_path)  
  
*# Initialize the Microsoft Edge WebDriver*driver = webdriver.Edge(service=service)  
  
*# Open Google Homepage*driver.get("https://selenium-practice.netlify.app")  
  
*# Wait for the page to load*time.sleep(2)  
  
*# Fill in the form fields:  
  
# Full Name*name\_field = driver.find\_element(By.XPATH, "//\*[@id='name']")  
name\_field.send\_keys("John Doe")  
  
select\_field = driver.find\_element(By.XPATH, "//\*[@id='selection']")  
select = Select(select\_field)  
select.select\_by\_visible\_text("Item 3")  
  
checkbox\_field = driver.find\_element(By.XPATH, "//\*[@id='check1']").click()  
checkbox\_field = driver.find\_element(By.XPATH, "//\*[@id='check2']").click()  
  
date\_field = driver.find\_element(By.XPATH, "//\*[@id='date']")  
date\_field.click()  
date\_field.send\_keys("01012024")  
  
*# Submit the form*submit\_button = driver.find\_element(By.XPATH, "//button[@type='submit']")  
time.sleep(5)  
submit\_button.click()  
  
*# Wait for the form submission to process*time.sleep(2)  
  
*# Print the confirmation message (or any output)*print(f"Form submitted")  
  
*# Print the title of the current page*print("Page Title:", driver.title)  
  
*# Close the browser after 5 seconds*time.sleep(5)  
driver.quit()

**Explanation of the Code:**

1. **Microsoft Edge WebDriver Setup**:
   * We specify the path to msedgedriver.exe and set options to run in headless mode (optional).
2. **Open the Website**:
   * The driver.get(url) command opens the website [**https://selenium-practice.netlify.app/**](https://selenium-practice.netlify.app/).
3. **Fill in the Form Fields**:
   * **Full Name**: Located by name attribute (name), the name "John Doe" is entered.
   * **Email**: Located by name attribute (email), the email "johndoe@example.com" is entered.
   * **Phone**: Located by name attribute (phone), the phone number "1234567890" is entered.
4. **Radio Button (Gender)**:
   * The gender is selected using an XPath (//input[@value='male']), which locates the "Male" radio button.
5. **Checkbox (Agree)**:
   * The checkbox is located by name attribute (agree), and the user clicks it to agree.
6. **Submit the Form**:
   * The submit button is located using XPath (//button[@type='submit']) and is clicked.
7. **Verify Submission**:
   * After submitting the form, we wait for the confirmation message to appear. We locate the confirmation message by its class name alert-success and print it.
8. **Close the Browser**:
   * Once the task is complete, the browser is closed using driver.quit().

**Step 3: Run the Script**

1. **Save the Script**:  
   Save the script as selenium\_form\_submission.py.
2. **Run the Script**:  
   Run it using your terminal or command prompt:

python selenium\_form\_submission.py

**Expected Output:**

Once you run the script, the browser will automatically fill in the form fields, select the gender, check the checkbox, and submit the form. After submission, the **confirmation message** will be printed in the console:

Form submission response: Thanks for submitting the form, John Doe!