

Source code- Automate a Web Application (Test Ng)

pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-
4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>coms</groupId>
  <artifactId>PracticeProject2</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>jar</packaging>

  <name>PracticeProject2</name>
  <url>http://maven.apache.org</url>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>3.8.1</version>
      <scope>test</scope>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>3.141.59</version>
    </dependency>

    <!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
    <dependency>
      <groupId>io.github.bonigarcia</groupId>
      <artifactId>webdrivermanager</artifactId>
      <version>5.4.0</version>
    </dependency>
```

```

<!-- https://mvnrepository.com/artifact/org.testng/testng -->
    <dependency>
        <groupId>org.testng</groupId>
        <artifactId>testng</artifactId>
        <version>7.8.0</version>
        <scope>test</scope>
    </dependency>
</dependencies>

</project>

```

CombinedTests.java

```

package com.example;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Test;
import java.util.concurrent.TimeUnit;
import java.time.Duration;

public class CombinedTests {
    private WebDriver wd;

    @BeforeMethod
    public void beforeMethod() {
        System.setProperty("webdriver.chrome.driver", "C:\\Users\\surya\\Documents\\phase5
Workspace\\chromedriver-win64\\chromedriver.exe");
        wd = new ChromeDriver();
    }

    @Test(priority = 1)
    public void googleSearchTest() {
        wd.get("https://google.com");
        wd.manage().window().maximize();
        wd.manage().timeouts().implicitlyWait(Duration.ofMinutes(2).getSeconds(),
TimeUnit.SECONDS);
        WebElement textField = wd.findElement(By.name("q"));
        textField.sendKeys("What is Testing?");
        WebElement btnRef = wd.findElement(By.name("btnK"));
    }
}

```

```
        btnRef.sendKeys(Keys.ENTER);
        try {
            Thread.sleep(6000);
        }
        catch (Exception e) {
            // TODO: handle exception
        }
    }

    @Test(priority = 2)
    public void loginTest() throws InterruptedException {
        // Open the website
        wd.get("https://www.saucedemo.com/");

        // Perform login
        wd.findElement(By.name("user-name")).sendKeys("standard_user");
        wd.findElement(By.id("password")).sendKeys("secret_sauce");

        wd.findElement(By.xpath("/html/body/div/div/div[2]/div[1]/div/div/form/input")).click();
        Thread.sleep(6000);
    }

    @Test(priority = 3)
    public void registrationTest() throws InterruptedException {
        wd.get("https://nxtgenaiacademy.com/demo-site/");

        // Registration form
        wd.findElement(By.id("vfb-5")).sendKeys("Pramod");
        wd.findElement(By.id("vfb-7")).sendKeys("Surya");
        wd.findElement(By.name("vfb-31")).click();

        // Address
        wd.findElement(By.cssSelector("input#vfb-13-address")).sendKeys("Yelahanka");
        wd.findElement(By.cssSelector("input#vfb-13-address-2")).sendKeys("Bangalore");
        wd.findElement(By.cssSelector("input#vfb-13-state")).sendKeys("India Karnataka");
        wd.findElement(By.cssSelector("input#vfb-13-zip")).sendKeys("India");

        // Country
        WebElement dropdownElement = wd.findElement(By.className("select2-
selection__arrow"));
        dropdownElement.click();
        WebElement option = wd.findElement(By.xpath("//li[contains(text(),'India')]"));
        option.click();

        // Email

        wd.findElement(By.xpath("/html/body/div[2]/div[2]/div[2]/div[1]/div/section/div/div[1]/div/div/
div/div/div/form/fieldset[1]/ul/li[5]/input")).sendKeys("surya621@gmail.com");
```

```
// Date
WebElement dateInput = wd.findElement(By.id("vfb-18"));
dateInput.clear();
String desiredDate = "08/20/23";
dateInput.sendKeys(desiredDate);

// Phone
wd.findElement(By.xpath("//*[@id=\"vfb-19\"]")).sendKeys("2545478545");

// Checkboxes
WebElement checkbox1 = wd.findElement(By.id("vfb-20-0"));
if (!checkbox1.isSelected()) {
    checkbox1.click();
}

WebElement checkbox2 = wd.findElement(By.id("vfb-20-3"));
if (!checkbox2.isSelected()) {
    checkbox2.click();
}

// Additional Info

wd.findElement(By.xpath("/html/body/div[2]/div[2]/div[2]/div[1]/div/section/div/div[1]/div/div/div/div/div/form/fieldset[1]/ul/li[10]/div/textarea")).sendKeys("I am your Best Friend okey!");

// Age
wd.findElement(By.id("vfb-3")).sendKeys("99");
wd.findElement(By.xpath("//*[@id=\"vfb-4\"]")).click();
Thread.sleep(6000);
}

@AfterMethod
public void afterMethod() throws InterruptedException {
    if(wd!=null) {
        wd.quit();
    }
}
}
```