

## Phase – 5 Practice Project: Assisted Practice

### 9. Group Test Cases and Parallel Test Execution.

- Code

- ✓ 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>Assisted-Practice-Project-5.8</groupId>
  <artifactId>Assisted-Practice-Project-5.8</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>
    <!--

      https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium
      -java -->
      <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-java</artifactId>
        <version>4.10.0</version>
      </dependency>

    <!--

      https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium
      -chrome-driver -->
      <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-chrome-driver</artifactId>
        <version>4.10.0</version>
      </dependency>

    <!--

      https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium
      -firefox-driver -->
      <dependency>
        <groupId>org.seleniumhq.selenium</groupId>
        <artifactId>selenium-firefox-driver</artifactId>
        <version>4.10.0</version>
      </dependency>

      <dependency>
        <groupId>org.testng</groupId>
        <artifactId>testng</artifactId>
        <version>7.8.0</version>
        <scope>compile</scope>
      </dependency>

    <!-- ReportNG-->
    <dependency>
```

```

        <groupId>org.uncommons</groupId>
        <artifactId>reportng</artifactId>
        <version>1.1.4</version>
    </dependency>
    <dependency>
        <groupId>com.google.inject</groupId>
        <artifactId>guice</artifactId>
        <version>4.2.2</version>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-compiler-plugin</artifactId>
            <configuration>
                <source>1.8</source>
                <target>1.8</target>
            </configuration>
        </plugin>
        <plugin>
            <groupId>org.apache.maven.plugins</groupId>
            <artifactId>maven-surefire-plugin</artifactId>
            <configuration>
                <suiteXmlFiles>
                    <suiteXmlFile>testng.xml</suiteXmlFile>
                </suiteXmlFiles>

                <properties>
                    <property>
                        <name>usedefaultlisteners</name>
                        <value>>false</value>
                    </property>
                    <property>
                        <name>listener</name>
                        <value>org.uncommons.reportng.HTMLReporter,
                        org.uncommons.reportng.JUnitXMLReporter
                    </value>
                    </property>
                </properties>

            </configuration>
        </plugin>
    </plugins>
</build>

</project>

```

## ✓ ParallelTests.java

```
package com.parallel;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.Test;

public class ParallelTests {

    WebDriver driver;
    @Test(groups="Chrome")

    public void LaunchChrome() {
        System.setProperty("webdriver.chrome.driver",
"D:\\Downloads\\chromedriver_win32\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.get("https://www.facebook.com");
        try {
            Thread.sleep(2000);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
    @Test(groups="Chrome", dependsOnMethods="LaunchChrome")

    public void TryFacebook1() {
        System.out.println(Thread.currentThread().getId());

driver.findElement(By.id("email")).sendKeys("admin@example.com");
        driver.findElement(By.id("pass")).sendKeys("12345");
        System.out.println(Thread.currentThread().getId());

        //driver.findElement(By.className("_42ft _4jy0 _6lth _4jy6 _4jy1
selected _5lsy")).click();
    }

}
```

## ✓ testng.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
    <test thread-count="5" name="Test">
        <classes>
            <class name="com.parallel.ParallelTests"/>
            <class name="com.testannotations.TestAnnotations"/>
        </classes>
    </test> <!-- Test -->
</suite> <!-- Suite -->
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
  <test thread-count="5" name="Test" parallel="methods">
    <classes>
      <class name="com.parallel.ParallelTests"/>
      <!-- <class name="com.testannotations.TestAnnotations"/>-->
    </classes>
  </test> <!-- Test -->
</suite> <!-- Suite -->
```

## • Output

```
<terminated> ParallelTests [TestNG] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 6:49:24 pm - 6:49:31 pm) [pid: 33492]
[RemoteTestNG] detected TestNG version 7.8.0
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Jul 20, 2023 6:49:25 PM org.openqa.selenium.remote.service.DriverService$Builder getLogOutput
INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output
1
1
PASSED: com.parallel.ParallelTests.LaunchChrome
PASSED: com.parallel.ParallelTests.TryFacebook1

=====
      Default test
      Tests run: 2, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

```
<terminated> Assisted-Practice-Project-5.8_testng.xml [TestNG] C:\Program Files\Java\jdk-17\bin\javaw.exe (20-Jul-2023, 6:55:12 pm - 6:55:20 pm) [pid: 27396]
[RemoteTestNG] detected TestNG version 7.8.0
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Jul 20, 2023 6:55:14 PM org.openqa.selenium.remote.service.DriverService$Builder getLogOutput
INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output
32
32
|
=====
Suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

