**Evaluating Test Cases .**

This lab has eight subsections, namely:

2.3.1 Creating a simple Java project

2.3.2 Downloading Selenium WebDriver jar, chromdriver.exe, and forefoxdriver.exe

2.3.3 Adding the WebDriver dependency in the project

2.3.4 Installing TestNG

2.3.5 Adding TestNG libraries to the Class Path

2.3.6 Creating a Java class named Assertions.java

2.3.7 Running the project

2.3.8 Pushing the code to your GitHub repositories

**Step 2.3.1:** Creating a simple Java project

* Open Eclipse
* Go the **File** menu. Choose **New->Java Project**
* Enter the project name as **Test Assertions**. Click on **Next**
* This will create the project files in the Project Explorer

**Step 2.3.2:** Downloading Selenium WebDriver jar, chromdriver.exe, and forefoxdriver.exe

* Go to <https://www.seleniumhq.org/download/> to download the **Selenium WebDriver** dependency
* Under the section **Selenium Client & WebDriver Language Bindings,** click on **Download** for **Java client version: 3.141.59**
* On the same page, under **Third Party Drivers, Bindings, and Plugins,** click on **Latest** for **Mozilla Gecko Driver**
* Select the file suitable for your operating system
* Go back to the previous page. Click on **Latest** for **Google Chrome Driver**
* From the current releases, select the appropriate file per your Chrome version

**Step 2.3.3:** Adding the WebDriver dependency in the project

* In the Project Explorer, right click on **Test Assertions**
* Select **Properties**. Select **Java Build Pat**h from the list. Go to **Libraries**
* Click on **Add External JARs** and browse the location where you have downloaded the JAR files
* Select JARs from the **root** folder and the **libs** folder
* Click on **Apply and Close**
* Copy the chromedriver.exe and geckodriver.exe, and paste it your project creating a resource folder

**Step 2.3.4:** Installing TestNG

* TestNG is installed as an eclipse plugin in your practice lab. (Refer FSD: Lab Guide - Phase 5)

**Step 2.3.5:** Adding TestNG libraries to the Class Path

* In the Project Explorer, right click on **Test Assertions**
* Select **Properties**. Select **Java Build Pat**h from the list. Go to **Libraries**
* Click on **Add Library.** Select **TestNG**. Click on **Next**. Click on **Finish**
* Click on **Apply and Close**

**Step 2.3.6:** Creating a Java class named ParallelTest.java

* In the Project Explorer, expand **Test Assertions->Java Resources**
* Right click on **src** and choose **New->Class**
* In **Class Name,** enter **Assertions** and click on **Finish.** In **Package Name,** enter **com.assert** and click on **Finish**
* Enter the following code:

package com.asserts;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.Assert;

import org.testng.annotations.Test;

import org.testng.asserts.SoftAssert;

public class Assertions {

SoftAssert soft = new SoftAssert();

WebDriver driver;

@Test

public void Launch() {

System.setProperty("webdriver.chrome.driver", "./Resources/chromedriver.exe");

driver = new ChromeDriver();

try {

Thread.sleep(3000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(dependsOnMethods = { "Launch" })

public void Facebook() {

driver.get("https://www.facebook.com");

soft.assertEquals("FB Title", driver.getTitle());

try {

Thread.sleep(2000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(dependsOnMethods = { "Facebook" })

public void Login() {

driver.findElement(By.id("email")).sendKeys("ravi10thstudent@gmail.com");

driver.findElement(By.id("pass")).sendKeys("12345");

driver.findElement(By.id("loginbutton")).click();

soft.assertAll();

try {

Thread.sleep(3000);

} catch (Exception e) {

e.printStackTrace();

}

}

}

**Step 2.3.7:** Running the project

* Right click on **Assertions** class. Click on **TestNG->Convert to TestNG**
* Click on **Finish.** It will create a **TestNG.xml** file. Open that file
* Right click. Select **Run As ->TestNG Suite**