**Automate a Web Application**

Code:

**pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<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 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.mphasis.phase5project1</groupId>

<artifactId>phase5project1</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>phase5project1</name>

<!-- FIXME change it to the project's website -->

<url>http://www.example.com</url>

<properties>

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

<maven.compiler.source>1.7</maven.compiler.source>

<maven.compiler.target>1.7</maven.compiler.target>

</properties>

<dependencies>

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.1.1</version>

</dependency>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>7.1.0</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-engine</artifactId>

<version>5.4.0</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->

<plugins>

<!-- clean lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#clean\_Lifecycle -->

<plugin>

<artifactId>maven-clean-plugin</artifactId>

<version>3.1.0</version>

</plugin>

<!-- default lifecycle, jar packaging: see https://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin\_bindings\_for\_jar\_packaging -->

<plugin>

<artifactId>maven-resources-plugin</artifactId>

<version>3.0.2</version>

</plugin>

<plugin>

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.0</version>

</plugin>

<plugin>

<artifactId>maven-surefire-plugin</artifactId>

<version>2.22.1</version>

</plugin>

<plugin>

<artifactId>maven-jar-plugin</artifactId>

<version>3.0.2</version>

</plugin>

<plugin>

<artifactId>maven-install-plugin</artifactId>

<version>2.5.2</version>

</plugin>

<plugin>

<artifactId>maven-deploy-plugin</artifactId>

<version>2.8.2</version>

</plugin>

<!-- site lifecycle, see https://maven.apache.org/ref/current/maven-core/lifecycles.html#site\_Lifecycle -->

<plugin>

<artifactId>maven-site-plugin</artifactId>

<version>3.7.1</version>

</plugin>

<plugin>

<artifactId>maven-project-info-reports-plugin</artifactId>

<version>3.0.0</version>

</plugin>

</plugins>

</pluginManagement>

</build>

</project>

**loginForm.html**

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Login Form</title>

</head>

<body>

<form action=*"/login"* method=*"post"*>

<fieldset>

<div class=*"container"*>

<label for=*"uname"*><b>Username</b></label>

<input type=*"text"* placeholder=*"Enter Username"* name=*"uname"* required> <br><br>

<label for=*"psw"*><b>Password</b></label>

<input type=*"password"* placeholder=*"Enter Password"* name=*"psw"* required><br><br>

<button type=*"submit"* id=*"login-button"*>Login</button> <br>

</div>

<hr>

</fieldset>

</form>

</body>

</html>

**registrationForm.html**

<!DOCTYPE html>

<html>

<head>

<meta charset=*"ISO-8859-1"*>

<title>Registration Form</title>

</head>

<body>

<form action = *"/register"*>

<div class = *"container"*>

<fieldset>

<h1>Registration Form </h1>

<h3> Please fill in this form to create an account: </h3><br>

<label for =*"email"*><b>Email:</b></label>

<input type =*"text"* placeholder = *"Enter Email"* name=*"email"* id=*"email"* required><br><br>

<label for =*"psw"*><b>Password:</b></label>

<input type =*"password"* placeholder = *"Enter Password"* name=*"psw"* id=*"psw"* required><br><br>

<label for =*"psw-repeat"*><b>Repeat Password:</b></label>

<input type =*"password"* placeholder = *"Repeat Password"* name=*"psw-repeat"* id=*"psw-repeat"* required><br><br>

<label for=*"role"*><b>Select Role</b></label>

<input type=*"radio"* name=*"radio"* id=*"admin"* required> Admin

<input type=*"radio"* name=*"radio"* id=*"user"* required> User <br> <br>

<label for=*"skill"*><b>Select Skill:</b></label>

<input type=*"checkbox"* name =*"skill"* id=*"skill1"* required> Java

<input type=*"checkbox"* name =*"skill"* id=*"skill2"* required> MySql

<input type=*"checkbox"* name =*"skill"* id=*"skill3"* required> Selenium Webdriver<br><br>

<button type=*"submit"* class=*"registerbtn"*>Register</button>

</fieldset>

</div>

</form>

</body>

</html>

**Login.java**

**package** com.mphasis.phase5project1;

**import** org.openqa.selenium.By;

**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;

**public** **class** Login {

**private** WebDriver driver;

**private** String url;

@Test

**public** **void** testFindById() {

WebElement Uname = driver.findElement(By.*name*("uname"));

Uname.sendKeys("arjun");

**try** {

Thread.*sleep*(5000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement pwd = driver.findElement(By.*name*("psw"));

pwd.sendKeys("arjun123");

**try** {

Thread.*sleep*(5000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement submit = driver.findElement(By.*id*("login-button"));

submit.click();

}

@BeforeMethod

**public** **void** beforeMethod() {

System.*setProperty*("webdriver.chrome.driver", "D:\\Work\\Mphasis\\jar files\\chromedriver.exe");

driver = **new** ChromeDriver();

url = "file:///C:\\Users\\varad\\MphasisPhase5\\phase5project1\\static\\loginForm.html";

driver.navigate().to(url);

}

@AfterMethod

**public** **void** afterMethod() {

driver.close();

}

}

**Registration.java**

**package** com.mphasis.phase5project1;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**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;

**public** **class** Registration {

**private** WebDriver driver;

**private** String url;

@Test

**public** **void** testFindById() {

WebElement mail = driver.findElement(By.*id*("email"));

mail.sendKeys("arjun@gmail.com");

**try** {

Thread.*sleep*(3000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement pwd = driver.findElement(By.*id*("psw"));

pwd.sendKeys("arjun123");

**try** {

Thread.*sleep*(1000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement rpwd = driver.findElement(By.*id*("psw-repeat"));

rpwd.sendKeys("arjun123");

**try** {

Thread.*sleep*(1000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement radio = driver.findElement(By.*id*("admin"));

JavascriptExecutor js = (JavascriptExecutor) driver;

js.executeScript("arguments[0].click()", radio);

**try** {

Thread.*sleep*(3000);

} **catch** (InterruptedException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

WebElement chkbox = driver.findElement(By.*id*("skill3"));

js = (JavascriptExecutor) driver;

js.executeScript("arguments[0].click()", chkbox);

**try** {

Thread.*sleep*(3000);

} **catch** (InterruptedException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

WebElement submit = driver.findElement(By.*className*("registerbtn"));

submit.click();

}

@BeforeMethod

**public** **void** beforeMethod() {

System.*setProperty*("webdriver.chrome.driver", "D:\\Work\\Mphasis\\jar files\\chromedriver.exe");

driver = **new** ChromeDriver();

url = "file:///C:\\Users\\varad\\MphasisPhase5\\phase5project1\\static\\registrationForm.html";

driver.navigate().to(url);

}

@AfterMethod

**public** **void** afterMethod() {

driver.close();

}

}