**SOURCE CODE: AUTOMATE A WEB APPLICATION**

**Login.java:**

**package** appTest;

**import** java.util.concurrent.TimeUnit;

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

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

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

**public** **static** **void** main(String[] args) {

WebDriver driver = **new** ChromeDriver();

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

driver.manage().window().maximize();

driver.manage().timeouts().~~implicitlyWait~~(10000, TimeUnit.***MILLISECONDS***);

//Add email

WebElement UserName = driver.findElement(By.*xpath*("//input[@id='email']"));

UserName.sendKeys("soujanya@gmail.com");

//Add password

WebElement Password = driver.findElement(By.*xpath*("//input[@id='pass']"));

Password.sendKeys("souji@123");

//Click button to login

WebElement LoginBtn = driver.findElement(By.*xpath*("//button[@name='login']"));

LoginBtn.click();

}

}

**Registration.java:**

**package** appTest;

**import** java.util.List;

**import** java.util.concurrent.TimeUnit;

**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.support.ui.Select;

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

**public** **static** **void** main(String[] args) {

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

WebDriver driver = **new** ChromeDriver();

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

driver.manage().window().maximize();

driver.manage().timeouts().~~implicitlyWait~~(10000, TimeUnit.**MILLISECONDS**);

WebElement SignUp = driver.findElement(By.*xpath*("//a[text()='Create new account']"));

SignUp.click();

WebElement firstNameTF = driver.findElement(By.*name*("firstname"));

firstNameTF.sendKeys("Souji");

WebElement lastNameTF = driver.findElement(By.*name*("lastname"));

lastNameTF.sendKeys("K");

WebElement number = driver.findElement(By.*name*("reg\_email\_\_"));

number.sendKeys("1234567890");

WebElement Password = driver.findElement(By.*xpath*("//\*[@id=\"password\_step\_input\"]"));

Password.sendKeys("souji@123");

//Select day

WebElement Day = driver.findElement(By.*id*("day"));

Select ddDay = **new** Select(Day);

ddDay.selectByVisibleText("13");

//Dynamic xpath for gender

String GenVal = "Female";

WebElement DynamicGen = driver.findElement(By.*xpath*("//label[text()='" + GenVal + "']/following-sibling::input"));

DynamicGen.click();

}

}

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

<modelVersion>4.0.0</modelVersion>

<groupId>com.caltech</groupId>

<artifactId>AutomateWebApp</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>AutomateWebApp</name>

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

<properties>

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

</properties>

<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.testng/testng -->

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>