package Pages;

import java.io.File;

import java.io.IOException;

import java.sql.Timestamp;

import java.time.Instant;

import org.apache.commons.io.FileUtils;

import org.openqa.selenium.By;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

import org.openqa.selenium.TakesScreenshot;

public class LoginPage {

WebDriver driver;

//---------locators----------------

//login page objects

//user id

*@FindBy*(name="user-name")

WebElement UserName; // = driver.findElement(By.name("user-name"));

//password

*@FindBy*(name="password")

WebElement Password; // = driver.findElement(By.name("password"));

//login button

*@FindBy*(id="login-button")

WebElement LoginBtn; //= driver.findElement(By.id("login-button"));

public LoginPage(WebDriver driver)

{

this.driver=driver;

PageFactory.*initElements*(driver, this);

}

*@SuppressWarnings*("deprecation")

public void takeScreenshot(String screenshotname)

{

TakesScreenshot ts=(TakesScreenshot)driver;

File source=ts.getScreenshotAs(OutputType.***FILE***);

Timestamp instant= Timestamp.*from*(Instant.*now*());

try {

FileUtils.*copyFile*(source, new File("C:\\Users\\xaviermpa\\eclipse-workspace\\SwagLabsAutomation\\ScreenShot\\"+screenshotname+instant.~~getDate~~()+instant.getTime()+".jpg"));

} catch (IOException e) {

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

e.printStackTrace();

}

}

public void LoginFunction(String UserNameVal,String PwdVal)

{

UserName.sendKeys(UserNameVal);

Password.sendKeys(PwdVal);

takeScreenshot("LoginPageBefore");

LoginBtn.click();

takeScreenshot("LoginPageAfter");

}

}

Product Page:

package Pages;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import junit.framework.Assert;

public class ProductPage {

WebDriver driver;

public ProductPage(WebDriver driver)

{

this.driver=driver;

}

public void takeScreenshot(String screenshotname)

{

Pages.LoginPage lp = new Pages.LoginPage(driver);

lp.takeScreenshot(screenshotname);

}

public void AddProducttoCartbyName(String productname)

{

//product page objects

//product id - static object

WebElement ProductName = driver.findElement(By.*xpath*("//div[text()='"+productname+"']"));

ProductName.isDisplayed();

takeScreenshot("ProductPageBeforeSelect");

//add to cart button - dynamic object

WebElement AddToCartBtn = driver.findElement(By.*xpath*("//div[text()='"+productname+"']/following::button[text()='Add to cart'][1]"));

ProductName.isDisplayed();

AddToCartBtn.click();

takeScreenshot("ProductPageAfterSelect");

}

}

Test Cases

Helper Library file:

package TestCases;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.BeforeMethod;

import io.github.bonigarcia.wdm.WebDriverManager;

public class HelperLibrary {

WebDriver driver;

@BeforeMethod

public void Setup()

{

WebDriverManager.chromedriver().setup();

driver = new ChromeDriver();

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

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

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

}

@AfterMethod

public void TearDown()

{

driver.close();

}

}

Login Scenarios:

package TestCases;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;

import org.testng.Assert;

import org.testng.annotations.Test;

import Pages.LoginPage;

public class LoginScenarios extends HelperLibrary{

*@Test*

public void LoginFailureTest()

{

LoginPage login = new LoginPage(driver);

login.LoginFunction("abc.com","slfjslfj");

WebElement errorMessage = driver.findElement(By.*tagName*("h3"));

System.***out***.println("The error message is " + errorMessage.getText());

String actMsg = errorMessage.getText();

String expMsg = "Epic sadface: " + "Username and password do not match any user in this service" ;

Assert.*assertEquals*(actMsg,expMsg);

}

*@Test*

public void LoginSuccessTest()

{

LoginPage login = new LoginPage(driver);

login.LoginFunction("standard\_user","secret\_sauce");

WebElement productpageheader = driver.findElement(By.*className*("app\_logo"));

Assert.*assertEquals*(productpageheader.getText(),"Swag Labs");

}

}

Product Page scenario:

package TestCases;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;

import org.testng.Assert;

import org.testng.annotations.Test;

import Pages.LoginPage;

import Pages.ProductPage;

public class AddProductToCart extends HelperLibrary{

@Test

public void AddGivenProducttoCartbyname()

{

LoginPage login = new LoginPage(driver);

login.LoginFunction("standard\_user","secret\_sauce");

WebElement productpageheader = driver.findElement(By.className("app\_logo"));

Assert.assertEquals(productpageheader.getText(),"Swag Labs");

ProductPage product = new ProductPage(driver);

product.AddProducttoCartbyName("Sauce Labs Backpack");

}

}

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.simplilearn</groupId>

<artifactId>SwagLabsAutomation</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>SwagLabsAutomation</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>

<dependency>

<groupId>io.github.bonigarcia</groupId>

<artifactId>webdrivermanager</artifactId>

<version>5.6.0</version>

</dependency>

<!-- https://mvnrepository.com/artifact/commons-io/commons-io -->

<dependency>

<groupId>commons-io</groupId>

<artifactId>commons-io</artifactId>

<version>2.15.0</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.testng/testng -->

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.3</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

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

<version>3.0.0-M5</version>

<configuration>

<suiteXmlFiles>

<suiteXmlFile>testng.xml</suiteXmlFile>

</suiteXmlFiles>

</configuration>

</plugin>

<plugin>

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

<version>3.8.0</version>

<configuration>

<source>1.8</source>

<target>1.8</target>

</configuration>

</plugin>

</plugins>

</build>

</project>

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="TestCases.LoginScenarios"/>

<class name="TestCases.AddProductToCart"/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->