**WEBDRIVER ASSIGNMENT**

1. **Write a WebDriver script to navigate to a website and click on a specific link.**

package seleniumassignement;

import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

/\*\*

\* Write a WebDriver script to navigate to a website and

\* click on a specific link

\*

\*/

public class seleniumAssign01 {

public static void main(String[] args) {

WebDriver driver= new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.get("https://mail.rediff.com/cgi-bin/login.cgi");

WebElement createAccountLink= driver.findElement(By.partialLinkText("Create a"));

createAccountLink.click();

if(driver.getCurrentUrl().contains("register"))

{

System.out.println("click at create account link is pass");

}

else

{

System.out.println("click at create account link is fail");

}

driver.close();

}

}

1. **Implement a Page Object Model for a login page using WebDriver.**

**PAGE OBJECT CLASS:**

package seleniumassignement;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

public class seleniumAssign02POM {

WebDriver driver;

public seleniumAssign02POM(WebDriver driver)

{

this.driver=driver;

PageFactory.initElements(driver, this);

}

// Locators

@FindBy(xpath="//input[@placeholder='Username']") WebElement txt\_username;

@FindBy(xpath="//input[@placeholder='Password']") WebElement txt\_password;

@FindBy(xpath ="//button[normalize-space()='Login']") WebElement btn\_submit;

public void setusername(String username) {

txt\_username.sendKeys(username);

}

public void setpassword(String password) {

txt\_password.sendKeys(password);

}

public void login\_button() {

btn\_submit.click();

}

}

**TESTCASE CLASS:**

**package** seleniumassignement;

**import** org.testng.annotations.Test;

**import** java.time.Duration;

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

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

**import** org.testng.Assert;

**import** org.testng.annotations.AfterMethod;

**import** org.testng.annotations.BeforeTest;

**import** org.testng.annotations.AfterTest;

**public** **class** seleniumAssign02Test {

WebDriver driver;

seleniumAssign02POM obj;

@Test

**public** **void** adminLoginTest() {

obj.setusername("student");

obj.setpassword("Password123");

obj.login\_button();

}

@AfterMethod

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

**if**(driver.getCurrentUrl().contains("logged-in-successfully"))

{

Assert.*assertTrue*(**true**, "Testcase Pass");

}

**else**

{

Assert.*assertTrue*(**false**, "Testcase Fail");

}

}

@BeforeTest

**public** **void** beforeTest() {

driver= **new** ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(10));

driver.get("https://practicetestautomation.com/practice-test-login/");

obj= **new** seleniumAssign02POM(driver);

}

@AfterTest

**public** **void** afterTest() {

driver.close();

}

}

1. **Write a WebDriver script to handle a dropdown and select an option based on specific criteria.**

package seleniumassignement;

import java.time.Duration;

import java.util.List;

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;

/\*

\* In rediff website under registration form select date of birth as "13-06-1990"

\*

\*/

public class seleniumAssign03 {

public static void main(String[] args) {

WebDriver driver= new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.get("https://register.rediff.com/register/register.php?FormName=user\_details");

WebElement dayDropDown= driver.findElement(By.xpath("//\*[@id=\"tblcrtac\"]/tbody/tr[22]/td[3]/select[1]"));

Select daySelector= new Select(dayDropDown);

daySelector.selectByIndex(13);

System.out.println("selected date is:" +daySelector.getFirstSelectedOption().getText());

WebElement monthDropDown= driver.findElement(By.xpath("//\*[@id=\"tblcrtac\"]/tbody/tr[22]/td[3]/select[2]"));

Select monthSelector= new Select(monthDropDown);

monthSelector.selectByValue("06");

System.out.println("selected month is:" +monthSelector.getFirstSelectedOption().getText());

WebElement yearDropDown=driver.findElement(By.xpath("//\*[@id=\"tblcrtac\"]/tbody/tr[22]/td[3]/select[3]"));

Select yearSelector= new Select(yearDropDown);

yearSelector.selectByVisibleText("1990");

System.out.println("selected year is:" +yearSelector.getFirstSelectedOption().getText());

driver.close();

}

}

**4. Implement a test case using WebDriver to validate the functionality of a registration form.**

package seleniumassignement;

import java.time.Duration;

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.openqa.selenium.support.ui.Select;

/\*

\* Perform registeration on url= "https://codenboxautomationlab.com/registration-form/"

\*/

public class seleniumAssign04 {

public static void main(String[] args) throws InterruptedException {

WebDriver driver= new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.get("https://codenboxautomationlab.com/registration-form/");

driver.findElement(By.name("fname")).sendKeys("Raisha");

driver.findElement(By.cssSelector("input[name=\"lname\"]")).sendKeys("Begum");

driver.findElement(By.name("email")).sendKeys("raishabegum.ba@gmail.com");

driver.findElement(By.xpath("//\*[@id=\"nf-field-20\"]")).sendKeys("8904058595");

JavascriptExecutor js= (JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,250)", "");

WebElement courseDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-22\"]"));

courseDrpDwn.click();

Select course= new Select(courseDrpDwn);

course.selectByIndex(0);

WebElement monthDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-24\"]"));

Select month= new Select(monthDrpDwn);

month.selectByValue("august");

WebElement socialMediaBtn= driver.findElement(By.xpath("//\*[@id=\"nf-label-class-field-23-1\"]"));

socialMediaBtn.click();

driver.findElement(By.xpath("//\*[@id=\"nf-field-15\"]")).click();

Thread.sleep(5000);

String regSuccessMsg="Your registration is completed";

if(driver.getPageSource().contains(regSuccessMsg))

{

System.out.println("Registeration is success");

}

else

{

System.out.println("Registeration is not success");

}

driver.close();

}

}

1. **Write a WebDriver script to capture a screenshot of a webpage and save it to a specific location**

**USING JAVA CLASS**

package seleniumassignement;

import java.io.File;

import java.io.IOException;

import java.time.Duration;

import org.openqa.selenium.io.FileHandler;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

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 seleniumAssign05 {

public static void main(String[] args) throws InterruptedException, IOException {

WebDriver driver= new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.get("https://codenboxautomationlab.com/registration-form/");

driver.findElement(By.name("fname")).sendKeys("Raisha");

driver.findElement(By.cssSelector("input[name=\"lname\"]")).sendKeys("Begum");

driver.findElement(By.name("email")).sendKeys("raishabegum.ba@gmail.com");

driver.findElement(By.xpath("//\*[@id=\"nf-field-20\"]")).sendKeys("8904058595");

File file = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);

FileHandler.copy(file, new File("C:\\raisha\\selenium\\raisha\_selenium\_demos\\Screenshots\\registerForm.jpeg"));

((JavascriptExecutor)driver).executeScript("window.scrollBy(0,250)", "");

WebElement courseDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-22\"]"));

courseDrpDwn.click();

Select course= new Select(courseDrpDwn);

course.selectByIndex(0);

WebElement monthDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-24\"]"));

Select month= new Select(monthDrpDwn);

month.selectByValue("august");

WebElement socialMediaBtn= driver.findElement(By.xpath("//\*[@id=\"nf-label-class-field-23-1\"]"));

socialMediaBtn.click();

driver.findElement(By.xpath("//\*[@id=\"nf-field-15\"]")).click();

Thread.sleep(5000);

file= ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);

FileHandler.copy(file, new File("C:\\raisha\\selenium\\raisha\_selenium\_demos\\Screenshots\\RegSuccess.jpeg"));

String regSuccessMsg="Your registration is completed";

if(driver.getPageSource().contains(regSuccessMsg))

{

System.out.println("Registeration is success");

}

else

{

System.out.println("Registeration is not success");

}

driver.close();

}

}

**USING TESTNG CLASS**

package seleniumassignement;

import org.testng.annotations.Test;

import org.testng.annotations.Test;

import java.io.File;

import java.io.IOException;

import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.OutputType;

import org.openqa.selenium.TakesScreenshot;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.io.FileHandler;

import org.openqa.selenium.support.ui.Select;

import org.testng.Assert;

import org.testng.annotations.AfterMethod;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.AfterTest;

public class seleniumAssign05\_testNG {

WebDriver driver;

File file;

@Test

public void Register() throws IOException, InterruptedException {

((JavascriptExecutor)driver).executeScript("window.scrollBy(0,250)", "");

driver.findElement(By.name("fname")).sendKeys("Raisha");

driver.findElement(By.cssSelector("input[name=\"lname\"]")).sendKeys("Begum");

driver.findElement(By.name("email")).sendKeys("raishabegum.ba@gmail.com");

driver.findElement(By.xpath("//\*[@id=\"nf-field-20\"]")).sendKeys("8904058595");

WebElement courseDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-22\"]"));

courseDrpDwn.click();

Select course= new Select(courseDrpDwn);

course.selectByIndex(1);

((JavascriptExecutor)driver).executeScript("window.scrollBy(0,100)", "");

WebElement monthDrpDwn= driver.findElement(By.xpath("//\*[@id=\"nf-field-24\"]"));

Select month= new Select(monthDrpDwn);

month.selectByValue("august");

WebElement socialMediaBtn= driver.findElement(By.xpath("//\*[@id=\"nf-label-class-field-23-1\"]"));

socialMediaBtn.click();

driver.findElement(By.xpath("//\*[@id=\"nf-field-15\"]")).click();

Thread.sleep(10000);

String regSuccessMsg="Your registration is completed";

if(driver.getPageSource().contains(regSuccessMsg))

{

Assert.assertTrue(true);

System.out.println("Registeration is success");

}

else

{

Assert.assertTrue(false);

System.out.println("Registeration is not success");

}

}

@AfterMethod

public void afterMethod() throws IOException {

file= ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);

FileHandler.copy(file, new File("C:\\raisha\\selenium\\raisha\_selenium\_demos\\Screenshots\\RegSuccess.jpeg"));

}

@BeforeTest

public void beforeTest() {

driver= new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.get("https://codenboxautomationlab.com/registration-form/");

}

@AfterTest

public void afterTest() {

driver.close();

}

}