1.package AssignmentPackage;

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.interactions.Actions;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class Assignment1 {

WebDriver driver;

@BeforeTest

public void setup() {

driver = new ChromeDriver();

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

}

@Test

public void mouseKeyboardActions() throws InterruptedException {

driver.get("https://demoqa.com/buttons");

Actions actions = new Actions(driver);

WebElement doubleClickBtn = driver.findElement(By.id("doubleClickBtn"));

actions.doubleClick(doubleClickBtn).perform();

String doubleClickMsg = driver.findElement(By.id("doubleClickMessage")).getText();

System.out.println("Double Click Message: " + doubleClickMsg);

WebElement rightClickBtn = driver.findElement(By.id("rightClickBtn"));

actions.contextClick(rightClickBtn).perform();

String rightClickMsg = driver.findElement(By.id("rightClickMessage")).getText();

System.out.println("Right Click Message: " + rightClickMsg);

WebElement clickMeBtn = driver.findElement(By.xpath("//button[text()='Click Me']"));

actions.click(clickMeBtn).perform();

String singleClickMsg = driver.findElement(By.id("dynamicClickMessage")).getText();

System.out.println("Single Click Message: " + singleClickMsg);

}

@Test

public void dragElement() throws InterruptedException {

driver.get("https://demoqa.com/dragabble");

Actions actions = new Actions(driver);

WebElement dragBox = driver.findElement(By.id("dragBox"));

actions.dragAndDropBy(dragBox, 100, 50).perform();

Thread.sleep(2000); // just to visually observe the drag

}

@AfterTest

public void tearDown() {

driver.quit();

}

}

2. package AssignmentPackage;

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;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import java.util.List;

public class Assignment2 {

WebDriver driver;

@BeforeTest

public void setup() {

driver = new ChromeDriver();

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

}

@Test

public void selectDropdowns() throws InterruptedException {

driver.get("https://demoqa.com/select-menu");

WebElement oldStyleDropdown = driver.findElement(By.id("oldSelectMenu"));

Select select1 = new Select(oldStyleDropdown);

select1.selectByVisibleText("Blue");

String selectedColor = select1.getFirstSelectedOption().getText();

System.out.println("Selected from Old-Style Dropdown: " + selectedColor);

WebElement multiSelectDropdown = driver.findElement(By.id("cars"));

Select select2 = new Select(multiSelectDropdown);

select2.selectByVisibleText("Green");

select2.selectByVisibleText("Yellow");

select2.selectByVisibleText("Black");

select2.selectByIndex(0);

select2.selectByIndex(2);

List<WebElement> allSelectedOptions = select2.getAllSelectedOptions();

System.out.println("Selected options from Multi-Select Dropdown:");

for (WebElement option : allSelectedOptions) {

System.out.println(" - " + option.getText());

}

}

@AfterTest

public void tearDown() {

driver.quit();

}

}

3. package AssignmentPackage;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.Alert;

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

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

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

import java.time.Duration;

public class Assignment3 {

WebDriver driver;

@BeforeTest

public void setup() {

driver = new ChromeDriver();

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

}

@Test

public void handleAlerts() throws InterruptedException {

driver.get("https://demoqa.com/alerts");

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

Alert simpleAlert = driver.switchTo().alert();

System.out.println("Simple Alert Message: " + simpleAlert.getText());

simpleAlert.accept();

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

Alert confirmAlert = driver.switchTo().alert();

System.out.println("Confirm Alert Message: " + confirmAlert.getText());

confirmAlert.dismiss();

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

Alert promptAlert = driver.switchTo().alert();

System.out.println("Prompt Alert Message: " + promptAlert.getText());

promptAlert.sendKeys("Narasimha");

promptAlert.accept();

String result = driver.findElement(By.id("promptResult")).getText();

System.out.println("Prompt Result on Page: " + result);

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

WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));

wait.until(ExpectedConditions.alertIsPresent()); // wait dynamically

Alert timedAlert = driver.switchTo().alert();

System.out.println("Timed Alert Message: " + timedAlert.getText());

timedAlert.accept();

}

@AfterTest

public void tearDown() {

driver.quit();

}

}

4. package AssignmentPackage;

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.interactions.Actions;

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

import org.testng.Assert;

import org.testng.annotations.AfterTest;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.Test;

public class Assignment4 {

WebDriver driver;

@BeforeTest

public void setup() {

driver = new ChromeDriver();

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

}

@Test

public void combinedScenario() throws InterruptedException {

driver.get("https://demoqa.com/droppable");

WebElement drag = driver.findElement(By.id("draggable"));

WebElement drop = driver.findElement(By.id("droppable"));

Actions action = new Actions(driver);

action.dragAndDrop(drag, drop).perform();

Thread.sleep(2000);

String dropText = driver.findElement(By.id("droppable")).getText();

System.out.println("After Drag and Drop: " + dropText);

Assert.assertTrue(dropText.contains("Dropped"), "Drag and Drop failed!");

driver.get("https://demoqa.com/select-menu");

WebElement carsDropdown = driver.findElement(By.id("cars"));

Select select = new Select(carsDropdown);

select.selectByVisibleText("Volvo");

select.selectByVisibleText("Saab");

select.selectByVisibleText("Opel");

System.out.println("Selected options from Multi-Select Dropdown:");

for (WebElement option : select.getAllSelectedOptions()) {

System.out.println(" - " + option.getText());

}

Assert.assertTrue(select.getAllSelectedOptions().size() > 1, " Multiple selection failed!");

driver.get("https://demoqa.com/alerts");

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

driver.switchTo().alert().sendKeys("Selenium Test");

driver.switchTo().alert().accept();

String result = driver.findElement(By.id("promptResult")).getText();

System.out.println("Prompt Result: " + result);

Assert.assertTrue(result.contains("Selenium Test"),

}

@AfterTest

public void tearDown() {

driver.quit();

}

}