# Day – 20

Assignment 1 – Action Class

Objective: Practice mouse and keyboard interactions.

Code:

package Sele\_package;

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;

public class Action\_practice {

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

// Set up WebDriver

WebDriver driver = new ChromeDriver();

// Assignment 1 - Buttons

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

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

Thread.sleep(2000);

// Double click action

WebElement doubleClickBtn = driver.findElement(By.cssSelector("#doubleClickBtn"));

Actions act = new Actions(driver);

act.doubleClick(doubleClickBtn).perform();

System.out.println("Double click message: " +

driver.findElement(By.id("doubleClickMessage")).getText());

// Right click action

WebElement rightClickBtn = driver.findElement(By.cssSelector("button#rightClickBtn"));

new Actions(driver).contextClick(rightClickBtn).perform();

System.out.println("Right click message: " +

driver.findElement(By.cssSelector("p#rightClickMessage")).getText());

// Single click (dynamic button)

// Example: If the button has a stable class

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

clickMeBtn.click();

System.out.println("Dynamic click message: " +

driver.findElement(By.cssSelector("p#dynamicClickMessage")).getText());

// Extra Challenge - Drag and Drop

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

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

new Actions(driver).dragAndDropBy(dragBox, 50, 50).perform();

}

}

Assignment 2 – Select Class

Objective: Work with dropdowns and multi-select options.

Code:

package Sele\_package;

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 java.util.List;

public class Selectclass {

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

WebDriver driver = new ChromeDriver();

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

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

//select Blue from old-style dropdown

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

Select standardDropdown = new Select(oldSelect);

// Using selectbyindex

standardDropdown.selectByIndex(1);

System.out.println("2. Old dropdown selection (by index): " +

standardDropdown.getFirstSelectedOption().getText());;

//multi-select dropdown

driver.findElement(By.xpath("//\*[@id=\"selectMenuContainer\"]/div[7]/div/div/div/div[2]")).click();

// Using visible text

driver.findElement(By.xpath("//div[text()='Green']")).click();

driver.findElement(By.xpath("//div[text()='Black']")).click();

driver.findElement(By.xpath("//div[text()='Red']")).click();

driver.findElement(By.xpath("//div[text()='Blue']")).click();

//Verify and print selected options

List<WebElement> selectedOptions = driver.findElements(By.cssSelector(".css-12jo7m5"));

System.out.println("\nMulti-select dropdown selections:");

for (WebElement option : selectedOptions) {

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

}

Thread.sleep(2000);

}

}

Assignment 3 – Alerts

Objective: Handle different types of alerts.

Code:

package Sele\_package;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

public class Alerts\_demo {

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

WebDriver driver = new ChromeDriver();

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

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

Thread.sleep(1000); // Initial page load wait

// simple alert

WebElement alertBtn = driver.findElement(By.id("alertButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", alertBtn);

Thread.sleep(1500);

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

Thread.sleep(1000);

//Timer alert

WebElement timerBtn = driver.findElement(By.id("timerAlertButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", timerBtn);

Thread.sleep(6500);

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

Thread.sleep(1000);

// confirmation alert

WebElement confirmBtn = driver.findElement(By.id("confirmButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", confirmBtn);

Thread.sleep(1500);

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

Thread.sleep(1500);

//prompt alert

WebElement promptBtn = driver.findElement(By.id("promtButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", promptBtn);

Thread.sleep(1500);

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

prompt.sendKeys("sai");

Thread.sleep(1000);

prompt.accept();

Thread.sleep(4000);

}

}

Assignment 4 – Combined Scenario

Objective: Integrate all three concepts.

Code:

package Sele\_package;

import org.openqa.selenium.\*;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

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

import java.util.List;

public class Combined{

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

// Set up WebDriver

WebDriver driver = new ChromeDriver();

//1. buttons

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

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

Thread.sleep(2000);

JavascriptExecutor js = (JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,500)");

Thread.sleep(1000);

// Double click action

WebElement doubleClickBtn = driver.findElement(By.cssSelector("#doubleClickBtn"));

Actions act = new Actions(driver);

act.doubleClick(doubleClickBtn).perform();

System.out.println("Double click message: " +

driver.findElement(By.id("doubleClickMessage")).getText());

// Right click action

WebElement rightClickBtn = driver.findElement(By.cssSelector("button#rightClickBtn"));

new Actions(driver).contextClick(rightClickBtn).perform();

System.out.println("Right click message: " +

driver.findElement(By.cssSelector("p#rightClickMessage")).getText());

// Single click (dynamic button)

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

clickMeBtn.click();

System.out.println("Dynamic click message: " +

driver.findElement(By.cssSelector("p#dynamicClickMessage")).getText());

// Extra Challenge - Drag and Drop

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

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

new Actions(driver).dragAndDropBy(dragBox, 50, 50).perform();

//2. select class

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

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

JavascriptExecutor jss = (JavascriptExecutor)driver;

jss.executeScript("window.scrollBy(0,500)");

Thread.sleep(1000);

//select Blue from old-style dropdown

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

Select standardDropdown = new Select(oldSelect);

// Using selectbyindex

standardDropdown.selectByIndex(1);

System.out.println("2. Old dropdown selection (by index): " +

standardDropdown.getFirstSelectedOption().getText());;

//multi-select dropdown

driver.findElement(By.xpath("//\*[@id=\"selectMenuContainer\"]/div[7]/div/div")).click();

// Using visible text

driver.findElement(By.xpath("//div[text()='Green']")).click();

driver.findElement(By.xpath("//div[text()='Black']")).click();

driver.findElement(By.xpath("//div[text()='Red']")).click();

driver.findElement(By.xpath("//div[text()='Blue']")).click();

//Verify and print selected options

List<WebElement> selectedOptions = driver.findElements(By.cssSelector(".css-12jo7m5"));

System.out.println("\nMulti-select dropdown selections:");

for (WebElement option : selectedOptions) {

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

}

Thread.sleep(2000);

// 3. alerts

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

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

Thread.sleep(1000); // Initial page load wait

JavascriptExecutor jsss = (JavascriptExecutor)driver;

jsss.executeScript("window.scrollBy(0,500)");

Thread.sleep(1000);

//simple alert

WebElement alertBtn = driver.findElement(By.id("alertButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", alertBtn);

Thread.sleep(1500);

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

Thread.sleep(1000);

//Timer alert

WebElement timerBtn = driver.findElement(By.id("timerAlertButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", timerBtn);

Thread.sleep(6500);

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

Thread.sleep(1000);

//confirmation alert

WebElement confirmBtn = driver.findElement(By.id("confirmButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", confirmBtn);

Thread.sleep(1500);

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

Thread.sleep(1500);

//prompt alert

WebElement promptBtn = driver.findElement(By.id("promtButton"));

((JavascriptExecutor)driver).executeScript("arguments[0].click();", promptBtn);

Thread.sleep(1500);

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

prompt.sendKeys("sai");

Thread.sleep(1000);

prompt.accept();

Thread.sleep(4000); }

}