Assignment 1 – Action Class

Objective: Practice mouse and keyboard interactions.

Scenario:

Open the DemoQA site → https://demoqa.com/buttons

Perform:

Double Click on “Double Click Me” button.

Right Click on “Right Click Me” button.

Single Click on the third “Click Me” button.

Print the text messages that appear after each click action.

Extra Challenge:

Visit https://demoqa.com/dragabble and drag the element from its position to another point.

Code; **package** Sele\_package;

**import** org.openqa.selenium.interactions.Actions;

**import** org.openqa.selenium.\*;

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

**public** **class** Actions\_practice {

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

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

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

Thread.*sleep*(5000);

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

JavascriptExecutor js=(JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,300)");

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

Actions act=**new** Actions(driver);

act.doubleClick(doubleclick).perform();

WebElement doubleClickMsg = driver.findElement(By.*id*("doubleClickMessage"));

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

Thread.*sleep*(3000);

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

act.contextClick(rightclick).perform();

WebElement rightClickMsg = driver.findElement(By.*id*("rightClickMessage"));

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

Thread.*sleep*(3000);

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

singleClickBtn.click();

WebElement singleClickMsg = driver.findElement(By.*id*("dynamicClickMessage"));

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

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

Actions act2=**new** Actions(driver);

JavascriptExecutor js1=(JavascriptExecutor)driver;

js1.executeScript("window.scrollBy(0,300)");

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

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

act2.dragAndDrop(source, target).perform();

System.***out***.println("Drag and drop successfully.");

}

}

Output; Double Click Message: You have done a double click

Right Click Message: You have done a right click

Single Click Message: You have done a dynamic click

Drag and drop successfully.

Assignment 2 – Select Class

Objective: Work with dropdowns and multi-select options.

Scenario:

Open the DemoQA site → https://demoqa.com/select-menu

Perform:

Select “Blue” from the old-style dropdown.

Select multiple options from the multi-select dropdown (e.g., “Green”, “Yellow”, “Black”).

Verify and print the selected options.

Extra Challenge:

Select options using both selectByVisibleText and selectByIndex.

Code; **package** Sele\_package;

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

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.Keys;

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

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

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

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

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

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

**import** java.time.Duration;

**import** java.util.List;

**import** graphql.Assert;

**public** **class** Multi\_select {

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

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

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

Thread.*sleep*(2000);

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

JavascriptExecutor js=(JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,600)");

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

Select select = **new** Select(oldStyleDropdown);

select.selectByVisibleText("Blue");

System.***out***.println("Selected (VisibleText): " + select.getFirstSelectedOption().getText());

select.selectByIndex(5);

System.***out***.println("Selected (ByIndex): " + select.getFirstSelectedOption().getText());

WebElement multiSelectInput = driver.findElement(By.*xpath*("//div[@class='css-1wa3eu0-placeholder']"));

multiSelectInput.click();

WebElement activeInput = driver.findElement(By.*xpath*("//div[contains(@class,'css-1pahdxg-control')]//input"));

String[] colors = {"Green", "Yellow", "Black"};

**for** (String color : colors) {

activeInput.sendKeys(color);

activeInput.sendKeys(Keys.***ENTER***);

}

List<WebElement> selectedOptions = driver.findElements(By.*cssSelector*(".css-12jo7m5 .css-1rhbuit-multiValue"));

System.***out***.println("Multi-Select Options:");

**for** (WebElement option : selectedOptions) {

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

}

driver.quit();

}

}

Output; Selected (VisibleText): Blue

Selected (ByIndex): Black

Multi-Select Options:

Green

Yellow

Black

Assignment 3 – Alerts

Objective: Handle different types of alerts.

Scenario:

Open the DemoQA site → https://demoqa.com/alerts

Perform:

Click the button to see an alert, accept it.

Click the “On button click, confirm box will appear” button, dismiss the alert.

Click the “Prompt Box” button, enter your name, and accept it.

Capture and print the alert messages before accepting/dismissing.

Extra Challenge:

Wait dynamically for the alert that appears after 5 seconds, then accept it.

Code; **package** Sele\_package;

**import** java.time.Duration;

**import** org.openqa.selenium.\*;

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

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

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

**public** **class** Alerts\_demo {

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

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

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

**try** {

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

Thread.*sleep*(5000);

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

//sample alert(accept)

//confirmation alert(accept or cancel)

//prompt alerts(add input and then accept, or cancel)

JavascriptExecutor js=(JavascriptExecutor)driver;

js.executeScript("window.scrollBy(0,400)");

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

samplealert.click();

wait.until(ExpectedConditions.*alertIsPresent*());

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

System.***out***.println("your clicked alert is "+alert.getText());

alert.accept();

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

timeralert.click();

wait.until(ExpectedConditions.*alertIsPresent*());

Alert alert12=driver.switchTo().alert();

System.***out***.println("your clicked alert is "+alert12.getText());

alert12.accept();

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

confirmalert.click();

wait.until(ExpectedConditions.*alertIsPresent*());

Alert alert1=driver.switchTo().alert();

System.***out***.println("your clicked alert is "+alert1.getText());

alert1.dismiss();

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

promptalert.click();

wait.until(ExpectedConditions.*alertIsPresent*());

Alert alert11=driver.switchTo().alert();

alert11.sendKeys("Harry");

System.***out***.println("your clicked alert is "+alert11.getText());

alert11.accept();

} **catch** (Exception e) {

System.***out***.println("Exception occurred: " + e.getMessage());

} **finally** {

driver.quit();

}

}

}

Output; your clicked alert is You clicked a button

your clicked alert is This alert appeared after 5 seconds

your clicked alert is Do you confirm action?

your clicked alert is Please enter your name

Assignment 4 – Combined Scenario

Objective: Integrate all three concepts.

Scenario:

Open a practice site (you can use https://demoqa.com or https://the-internet.herokuapp.com/).

Steps:

Drag and drop an element (Action Class).

Select multiple options from a dropdown (Select Class).

Trigger a prompt alert, enter a message, and verify it on the page.

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

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

**import** java.time.Duration;

**public** **class** Combined\_Scenario {

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

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

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

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

**try** {

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

JavascriptExecutor js = (JavascriptExecutor) driver;

js.executeScript("window.scrollBy(0,300)");

Actions actions = **new** Actions(driver);

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

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

actions.dragAndDrop(source, target).perform();

System.***out***.println("Drag and drop completed.");

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

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

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

Select select = **new** Select(multiSelect);

**if** (select.isMultiple()) {

select.selectByVisibleText("Volvo");

select.selectByVisibleText("Saab");

System.***out***.println("Multiple options selected.");

} **else** {

System.***out***.println("Dropdown is not multi-select.");

}

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

js.executeScript("window.scrollBy(0,400)");

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

promptButton.click();

wait.until(ExpectedConditions.*alertIsPresent*());

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

String inputText = "Jagadheeswar";

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

promptAlert.sendKeys(inputText);

promptAlert.accept();

WebElement result = driver.findElement(By.*id*("promptResult"));

**if** (result.getText().contains(inputText)) {

System.***out***.println("Prompt alert input verified on page.");

} **else** {

System.***out***.println("Prompt alert input not found.");

}

} **catch** (Exception e) {

System.***out***.println("Exception occurred: " + e.getMessage());

} **finally** {

driver.quit();

}

}

}

Output; Drag and drop completed.

Multiple options selected.

Prompt Alert Message: Please enter your name

Prompt alert input verified on page.