**Selenium Class**

# Chapter#11 – Mouse Operations in Selenium WebDriver

1. **Right click in Selenium**
2. **Double click in Selenium**
3. **Mouseover in Selenium**
4. **Drag and Drop in Selenium**

## Right click in Selenium

Actions action = new Actions(driver);

WebElement element = driver.findElement(By.id("elementId"));

action.contextClick(element).perform();

Here, we are instantiating an object of the Actions class. After that, we pass the WebElement to be right-clicked as a parameter to the contextClick() method present in the Actions class. Then, we call the perform() method to perform the generated action.

## Double click in Selenium

Actions action = new Actions(driver);

WebElement element = driver.findElement(By.id("elementId"));

action.doubleClick(element).perform();

Here, we are instantiating an object of Actions class. After that, we pass the WebElement to be double clicked as parameter to the doubleClick() method present in the Actions class. Then, we call the perform() method to perform the generated action.

## Mouseover in Selenium

Actions action = new Actions(driver);

WebElement element = driver.findElement(By.id("elementId"));

action.moveToElement(element).perform();

Here, we are instantiating an object of Actions class. After that, we pass the WebElement to be mouse hovered as a parameter to the moveToElement() method present in the Actions class. Then, we will call the perform() method to perform the generated action.

## Drag and Drop in Selenium

For performing complex user gestures like drag and drop, we have a Actions class in Selenium WebDriver. Using the Actions class, we first build a sequence of composite events and then perform it using Action (an interface which represents a single user-interaction). The different methods of Actions class we will be using here are,

clickAndHold(WebElement element) – Clicks a web element at the middle(without releasing).

moveToElement(WebElement element) – Moves the mouse pointer to the middle of the web element without clicking.

release(WebElement element) – Releases the left click (which is in the pressed state).

build() – Generates a composite action.

Below is the code snippet for performing drag and drop operation-

**//WebElement on which drag and drop operation needs to be performed**

WebElement fromWebElement = driver.findElement(By Locator of fromWebElement);

**//WebElement to which the above object is dropped**

WebElement toWebElement = driver.findElement(By Locator of toWebElement);

**//Creating an object of Actions class to build composite actions**

Actions builder = new Actions(driver);

**//Building drag and drop action**

Action dragAndDrop = builder.clickAndHold(fromWebElement)

.moveToElement(toWebElement)

.release(toWebElement)

.build();

**//Performing the drag and drop action**

dragAndDrop.perform();