## **What is the Action Class in Selenium?**

The Action class in Selenium WebDriver is a utility class that enables advanced user interactions such as mouse and keyboard events. This class provides a way to simulate complex user interactions like double-clicking, right-clicking, holding down a key, etc.

## **Methods of Actions Class**

Actions class is broadly divided into two categories:

1) Mouse actions

2) Keyboard actions

### **Mouse Actions**

Mouse actions in [Selenium](https://www.selenium.dev/documentation/webdriver/actions_api/mouse/) are the actions that can be performed using a mouse, such as clicking, double-clicking, right-clicking, dragging and dropping, etc. These actions simulate a user’s interactions with a website through the mouse.

The Actions class in Selenium WebDriver provides the following mouse action:

1) click(): performs a single mouse click on the specified element.

2) clickAndHold(): holds down the left mouse button on the specified element.

3) contextClick(): performs a right-click on the specified element.

4) doubleClick(): performs a double-click on the specified element.

5) dragAndDrop(): performs a drag and drop operation between two elements.

6) release(): releases the left mouse button on the specified element.

7) moveToElement(): moves the mouse cursor to the middle of the specified element.

### **Keyboard Actions**

Keyboard actions in Selenium are the actions that can be performed using a keyboard, such as pressing keys, holding down keys, releasing keys, etc. These actions simulate a user’s interactions with a website through the keyboard.

The Actions class in Selenium provides the following keyboard actions:

1) sendKeys(CharSequence… keysToSend): sends a series of key presses to the specified element.

2) keyDown(Keys theKey): holds down the specified key.

3) keyUp( Keys theKey): releases the specified key.