**WEBELEMENTS OPERATIONS**

**ACTION CLASS**

**Actions class** is an ability provided by **Selenium** for handling keyboard and mouse events. In **Selenium WebDriver**, handling these events includes **operations** such as drag and drop, clicking on multiple elements with the control key, among others. These **operations** are performed using the advanced user interactions API.

**WHAT CAN BE DONE WITH ACTIONS CLASS**

Below listed are the methods that can be used for Actions Class

Text

Description automatically generated

**Mouse Hover and Movement Actions**

Let’s see it practically

HOMEWORK- PERFORM OPERATION ON USERNAME FIELD OF FACEBOOK>> WRITE SOME USERNAME IN CAPS>DOUBLE CLICK IT>AND PERFORM RIGHT CLICK

HOMEWORK- GET THE X AND Y COORDINATES FOR THE FACEBOOK TITLE AND PERFORM MOUSE MOVEMENT ON THE SAME

**DRAG AND DROP**

Let’s see it practically

HOMEWORK- PERFORM DRAG AND DROP OF ANY OTHER ELEMENT INTO THE SPECIFIED AREA ON ‘http://demo.guru99.com/test/drag\_drop.html’

**HANDLING DROPDOWNS**

**WHAT IS SELECT CLASS?**

**Select select\_reference= new Select(WebElement)**

The **Select class** is a Webdriver class which basically provides the implementation of the HTML SELECT tag. A Select tag provides the helper methods with select and deselect options. This **class** can be found under **Selenium's** Support. UI

Select class provides a lots of methods and are discussed below:

**Graphical user interface, text, application

Description automatically generated**

How to select value one by one/Multiple from dropdown?

Value can be selected by below 3 methods:  
-SelectByIndex  
-SelectByValue  
-SelectByVisibleText

Let’s see it practically and also use get Options methods to print out the name of all the dropdown options.

How to deselect value one by one/Multiple from dropdown?

deselectAll()  
deselectByIndex()  
deselectByValue()  
deselectByVisibleText()

HOMEWORK: SELECT ANY VALUES FROM DROPDOWN AND PERFORM THESE ACTIONS FROM ‘https://demoqa.com/select-menu’

**FURTHER WEBELEMTS OPERATIONS**

**DIFFERENCE BETWEEN FINDELEMENT AND FINDELEMENTS**

FIND ELEMENT

Selenium Find Element command takes in the By object as the parameter and returns an object of type list WebElement in Selenium.

WebElement elementName = driver.findElement(By.LocatorStrategy("LocatorValue"));

FIND ELEMENTS

FindElements in Selenium command takes in By object as the parameter and returns a list of web elements.

List<WebElement> elementName = driver.findElements(By.LocatorStrategy("LocatorValue"));

Example: Practice Demo URL

<http://demo.guru99.com/test/ajax.html>

**OPERATION ON FIELDS, BUTTON , LINK, CLICK ON OTHER ELEMENTS [Demo Example below]**

<http://demo.guru99.com/test/login.html-->   
Field data is sent using .sendKeys();, .click,

<http://demo.guru99.com/test/link.html>

<http://demo.guru99.com/test/radio.html> **[Perform Operation on Radio and Checkboxes]**

<http://demo.guru99.com/test/ajax.html> **[Displayed, Enabled, Selected]**

<https://demoqa.com/links> [Links and Dead Links]