

Mouse Operations in WebDriverIO

- Mouse events are handled using element and browser in WebDriverIO. Mouse Operations/events include events like Click, double click, right-click, mouse out, mouse move.

Operations based on element object

1. click
2. Mouse hover
3. doubleClick
4. Drag and drop

Operations based on browser object

1. positionClick
2. Mouse Hover
3. positionDoubleClick
4. buttonDown
5. buttonUp

1. **click from element** - click() function is used to click at the current element object on which we have called the click() function. click() function generally scrolls to and then clicks the selected element.

JavaScript

```
$(selector).click()
```

Eg.

```
it('Mouse Operations with WebdriverIO', () => {  
    browser.url('https://chercher.tech/practice/popups')  
    $("//input[@name='prompt']").click()  
});
```

2. Mouse hover -

- a. moveTo() function is used to move the mouse to the middle of the web element. It accepts two parameters as x and y offset, to move the cursor to that offset from the given element.

JavaScript

```
$(selector).moveTo(xoffset, yoffset)
```

```
it('Mouse Operations with WebdriverIO', () => {  
    browser.url('https://chercher.tech/practice/popups')  
    $("//button[@id='sub-menu']").moveTo()  
});
```

3. **doubleClick()** - doubleClick() function is used to perform a double click at the currently given element on a web page.

JavaScript

```
$(selector).doubleClick()

it('Mouse Operations with WebdriverIO', () => {
    browser.url('https://chercher.tech/practice/popups')
    $("//input[@id='double-click']").doubleClick()
});
```

4. **Drag and drop** - dragAndDrop() function is used to perform the click and hold an event on the current object and then move that object to the location of the target web element and release the mouse after that.
- It accepts two parameters,
 - target (optional): destination selector or to the place where we want to drag the source element
 - duration (optional) : how long the drag should take place

JavaScript

```
$(selector).dragAndDrop(target, duration)

it('Mouse Operations with WebdriverIO', () => {
    browser.url('https://chercher.tech/practice/drag-drop')
    $("#box1").dragAndDrop($("#destination"))
});
```

5. **positionClick** - positionClick() function used with a combination of moveTo() function from the element object. First, we have to move the mouse to the required position and then click it.

JavaScript

```
browser.positionClick()
it('Mouse Operations with WebdriverIO', () => {
  browser.url('https://chercher.tech/practice/popups')
  $("//input[@name='prompt']").moveTo()
  browser.positionClick()
});
```

- a. Rather than performing these two operations, we can directly use click() function from element object.
6. **Mouse Hover** - moveToElement() function is used to move the mouse to the web element. It accepts three parameters
- a. element
 - b. X offset from element
 - c. Y Offset from element
 - d. browser.moveToElement(element, xoffset, yoffset)

7. **positionDoubleClick** - positionDoubleClick() function is used to double click the current position of the mouse cursor, so we have to move the mouse using moveToElement() or moveTo() function in webdriverio, and then we got to use positionDoubleClick() function.

JavaScript

```
it('Mouse Operations with WebdriverIO', () => {  
    browser.url('https://chercher.tech/practice/popups')  
    $('#double-click').moveTo()  
    browser.positionDoubleClick()  
});
```