

Scroll Bar

What is Scroll Bar?

- Scroll bar is let's you move around screen in horizontal and vertical direction and it is used to move the window up and down
- In Selenium certain web pages will visible once the user have scrolled to the web element
- In such cases we have to use scrollbar.
- We can handle this scrollbar using JavaScript executor interface ,with the help of executeScript() abstract method.

How to use JavaScriptExecutor in Selenium

- Here is a step-by-step process on how to use JavaScriptExecutor in Selenium:

Step 1) Import the package.

```
import org.openqa.selenium.JavascriptExecutor;
```

Step 2) Create a Reference.(downcasting statement)

```
JavascriptExecutor js = (JavascriptExecutor) driver;
```

Step 3) Call the JavascriptExecutor method.

```
js.executeScript(script, args);
```

Handling scroll bar with the help of JavaScriptExecutor and getLocation() method

- First find the x and y coordinates with the help of getLocation().

//address of the element

- WebElement ele= driver.findElement(By.xpath(" "));

//downcasting to JavaScriptExecutor interface

- JavaScriptExecutor js=(JavaScriptExecutor)driver;
- Js.executeScript("window.scrollBy("+x+","+y+");");
- Window()---->available in options nested interface.

Without using getLocation()

//address of the element

- WebElement ele= driver.findElement(By.xpath(" "));

//downcasting to JavaScriptExecutor interface

- JavaScriptExecutor js=(JavaScriptExecutor)driver;

- Js.executrScript("arguments[0].scrollIntoView();", e
le);

Script:

```
package ScrollBy;

import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Test1 {

    public static void main(String[] args)
    {
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.amazon.com/");

        driver.manage().timeouts().implicitlyWait(Duration
.ofSeconds(10));
    }
}
```

```

        WebElement ele =
driver.findElement(By.xpath("//img[@alt='Shop
Laptops & Tablets']"));
        Point l = ele.getLocation();
        int x = l.getX();
        int y = l.getY();

        JavascriptExecutor js = (JavascriptExecutor)
driver;

js.executeScript("window.scrollBy("+x+"," +y+ ")");
ele.click();
}

}

```

Script:

Open browser enter the URL

<https://demoapp.skillrary.com/product.php?product=selenium-training> scroll down till carrer and click on it and close.

```

package Scroll_Bar;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Point;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

```

```

import io.github.bonigarcia.wdm.WebDriverManager;

public class Scroll_Skillrary_Carrers {

    public static void main(String[] args) throws Throwable {
        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();

        driver.get("https://demoapp.skillrary.com/product.php?product=selenium-training");
        driver.manage().timeouts().implicitlyWait(10,
        TimeUnit.SECONDS);
        WebElement career =
        driver.findElement(By.xpath("//a[text()='Career']"));
        Point ele = career.getLocation();
        int x = ele.getX();
        int y = ele.getY();

        JavascriptExecutor js = (JavascriptExecutor) driver;
        js.executeScript("window.scrollBy(" + x + "," + y +
        ")");
        career.click();

        Thread.sleep(5000);
        driver.close();

    }
}

```

ScreenShots:

- Inorder to take screen shot selenium takes help of 3rd party tool called Apache commons.io
- We have to do Type casting from WebDriver interface to TakesScreenshot interface
- So that, we can access getScreenshotAS method from TakesScreenshot interface .
- This will take the photo and stores in Ram .
- So; we will specify required position to store the screenshot

- Inorder to perform this task we have to call copyFile() from FileUtils class.

//Typcasting

TakesScreenshot ts=(TakesScreenshot) driver;

//we access the method and that stores SS in RAM
File src = ts.getScreenshotAs(OutputType.FILE);
//i have specify the location
File dest = new File("./Screen-Shots/amazon.png");
//copy paste from RAM to required location
FileUtils.copyFile(src, dest);