## What is JavaScriptExecutor in Selenium?

JavaScriptExecutor is an interface provided by Selenium Webdriver, which presents a way to execute [JavaScript](https://www.lambdatest.com/support/docs/javascript-with-selenium-running-javascript-automation-scripts-on-lambdatest-selenium-grid/) from Webdriver. This interface provides methods to run JavaScript on the selected window or the current page. JavaScriptExecutor is an interface which is available for all the languages that support the [Selenium uses](https://www.lambdatest.com/selenium).

As JavaScriptExecutor is a Selenium interface, there is no need for an extra plugin or add-on. You can use it directly by importing the package **org.openqa.selenium.JavascriptExecuto**r.

## Why use JavaScriptExecutor in Selenium?

Selenium Webdriver alone lets you perform operations on web elements like sending data, clicking buttons, etc. However, as said before, there are scenarios where the Webdriver commands will not work as expected due to various reasons. In these cases, we take the help of JavaScriptExecutor.

For example, traditionally to [locate a web element](https://www.lambdatest.com/blog/locators-in-selenium-webdriver-with-examples/) we use different web locator strategies such as ID, Name, CSS selector, and XPath, etc. If these locators do not work as expected, or you are handling a tricky XPath, you can use JavaScriptExecutor to perform the desired operation on the WebElement..

On similar lines, to click on a WebElement, we generally use the click() method provided by Selenium Webdriver.



|  |  |
| --- | --- |
| 1 | driver.findElement(By.id(“button”)).click(); |

You can check out our Learning Hub in case you want to deep dive into the various aspects of [Selenium Locators](https://www.lambdatest.com/learning-hub/selenium-locators). At times, the click() method may not work on all the web browsers or the web controls might behave differently on different browsers. To overcome such situations, the JavaScriptExecutor interface should be used.

As we know, browsers have Javascript implementation inside them and can understand the JavaScript commands. Hence, understanding [JavaScriptExecutor in Selenium](https://www.lambdatest.com/blog/executing-javascript-in-selenium-php/" \t "_blank) will enable you to perform a range of operations more efficiently and elegantly.

<https://www.lambdatest.com/blog/how-to-use-javascriptexecutor-in-selenium-webdriver/>

<https://www.browserstack.com/guide/javascriptexecutor-in-selenium#:~:text=In%20simple%20words%2C%20JavascriptExecutor%20is,HTML%20elements%20within%20the%20browser>.

<https://www.softwaretestinghelp.com/javascriptexecutor-in-selenium/>