## JavaScriptExecutor in Selenium (Java)

The JavascriptExecutor interface in Selenium is used to execute JavaScript directly in the browser, which is helpful when:

- Selenium WebDriver can't interact with elements normally (e.g., due to dynamic content, hidden elements).
- You want to do things faster or more precisely (like scrolling, clicking, setting values, etc.).

# ✓ How to Use It

JavascriptExecutor js = (JavascriptExecutor) driver;

# © Commonly Used JavascriptExecutor Methods (with Examples) Action JavaScript Code Use Case

## **1.** Click an Element

js.executeScript("arguments[0].click();", element); Used when element.click() fails (e.g., due to overlay).

# **2. Scroll Down by Pixels**

js.executeScript("window.scrollBy(0,500);"); Scrolls down 500 pixels vertically.

## **3.** Scroll to an Element

js.executeScript("arguments[0].scrollIntoView(true);", element); Brings the element into view.

# **4.** Send Text to Input Field

js.executeScript("arguments[0].value='Ajay';", inputElement); Sets value when sendKeys() fails.

# **5.** Get Page Title

String title = (String) js.executeScript("return document.title;");

#### • 6. Get Current URL

String url = (String) js.executeScript("return document.URL;");

# ♦ 7. Get InnerText of Page

String text = (String) js.executeScript("return
document.documentElement.innerText;");

# **3.** Scroll to Bottom of Page Using JavaScript

JavascriptExecutor js = (JavascriptExecutor) driver; js.executeScript("window.scrollTo(0, document.body.scrollHeight);"); Scrolls the web page to the bottom using JavaScript.

# **8.** Generate Alert

js.executeScript("alert('This is a test alert');");

# 9. Refresh the Page

js.executeScript("history.go(0);");

## **10. Set Element Attribute**

js.executeScript("arguments[0].setAttribute('value', '12345')", element);

# **Why Use JavascriptExecutor?**

- When normal WebDriver commands fail
- To interact with hidden/disabled elements
- To improve speed in some cases
- For advanced DOM manipulation