

JavascriptExecutor TakesScreenshot and Common Exceptions

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JavascriptExecutor

- We can also use Javascript methods in WebDriver with help of JavascriptExecutor interface.
- You need to typecast driver to JavascriptExecutor.
 - `JavascriptExecutor js = (JavascriptExecutor)driver;`
- It has two methods:
 - `Object executeScript(String script, Object... args)`
 - `Object executeAsyncScript(String script, Object... args)`
- To click an element:
 - `js.executeScript("arguments[0].click();", element);`
- To scroll to a webpage:
 - `js.executeScript("window.scrollTo(0,50)");`
- To scroll to a particular WebElement:
 - `js.executeScript("arguments[0].scrollIntoView(true);", element);`

TakesScreenshot

- In order to take screenshot of webpage, we can use API of TakesScreenshot.
- WebDriver need to be typecasted before using:
 - TakesScreenshot ts = (TakesScreenshot)driver;
- It has only one method:
 - `<X> X getScreenshotAs(OutputType<X> target)`
- Example:
 - `File scrFile = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);`
 - `FileUtils.copyFile(scrFile, targetFile);`
 - This will take the screenshot and save it in targetFile.

Common Exceptions

- InvalidSwitchToTargetException
 - When frame or window target to be switched doesn't exist.
- NoAlertPresentException
 - When the searched Alert is not displayed.
- UnexpectedAlertPresentException
 - When an Alert is displayed unexpectedly
- ElementNotVisibleException
 - When element is present in the page but invisible
- NoSuchElementException
 - When element could not be found or due to time sync issue.
- StaleElementReferenceException
 - Element is present in page but page has been refreshed.
- TimeoutException
 - When a command does not complete in enough time.

For more information : [More Exceptions](https://seleniumhq.github.io/selenium/docs/api/py/common/selenium.common.exceptions.html)(https://seleniumhq.github.io/selenium/docs/api/py/common/selenium.common.exceptions.html)