SELENIUM WEBDRIVER METHODS WITH THEIR RETURN TYPES

Browser & Page Methods

Method	Return Type	Description
getTitle()	String	Returns the title of the current page.
getCurrentUrl()	String	Returns the URL of the current page.
getPageSource()	String	Returns the HTML source code of the page.
navigate().to(String url)	void	Opens the specified URL.
navigate().back()	void	Navigates back to the previous page.
navigate().forward()	void	Moves forward in browser history.
navigate().refresh()	void	Refreshes the current page.

Finding Elements Methods

Method	Return Type	Description
findElement(By locator)	WebElement	Finds a single element matching the locator.
findElements(By locator)	List <webelement></webelement>	Finds multiple elements matching the locator.

Handling Windows & Frames

Method	Return Type	Description
getWindowHandle()	String	Returns the current window handle.
getWindowHandles()	Set <string></string>	Returns all open window handles.
switchTo().window(String handle)	WebDriver	Switches to another window.
switchTo().frame(int index)	WebDriver	Switches to a frame by index.
switchTo().frame(String nameOrId)	WebDriver	Switches to a frame by name or ID.
switchTo().frame(WebElement frameElement)	(Webl)river	Switches to a frame using a WebElement.
switchTo().defaultContent()	WebDriver	Switches back to the main page.

Handling Alerts & Popups

Method	Return Type	Description
switchTo().alert()	Alert	Switches focus to an alert.
alert.accept()	void	Clicks "OK" on the alert.
alert.dismiss()	void	Clicks "Cancel" on the alert.
alert.getText()	String	Gets the alert message.
alert.sendKeys(String text)	void	Enters text into the alert.

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WebElement Methods

Method	Return Type	Description
click()	void	Clicks the element.
sendKeys(String text)	void	Types text into the element.
clear()	void	Clears the text field.
getText()	String	Gets the text of the element.
getAttribute(String name)	String	Gets an attribute value.
getCssValue(String propertyName)	String	Gets the CSS property value.
isDisplayed()	boolean	Checks if the element is visible.
isEnabled()	boolean	Checks if the element is enabled.
isSelected()	boolean	Checks if the element is selected (radio button, checkbox).
getSize()	Dimension	Gets the height and width of an element.
getLocation()	Point	Gets the x and y coordinates of an element.
submit()	void	Submits a form element.

Browser Window Management

Method	Return Type	Description
manage().window().maximize()	void	Maximizes the browser window.
manage().window().minimize()	void	Minimizes the browser window.
manage().window().fullscreen()	void	Opens the browser in full-screen mode.
manage().window().getSize()	Dimension	Gets the window size.
manage().window().getPosition()	Point	Gets the window position.
manage().window().setSize(Dimension size)	void	Sets the window size.
manage().window().setPosition(Point position)	void	Sets the window position.

JavaScript Execution in Selenium

Method	Return Type	Description
executeScript(String script)	Object	Executes JavaScript code.
executeAsyncScript(String script)	Object	Executes asynchronous JavaScript code.

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SELENIUM WEBDRIVER METHODS WITH THEIR RETURN TYPES

Wait Methods in Selenium

Method	Return Type	Description
implicitlyWait(long time, TimeUnit unit)	void	Sets implicit wait time.
explicitWait.until(ExpectedConditions.condition)	IWehFlement	Waits for a specific condition.
fluentWait.withTimeout(Duration.ofSeconds(10))	FluentWait <webdriver></webdriver>	Waits with polling intervals.

Mouse & Keyboard Actions

Method	Return Type	Description
moveToElement(WebElement target)	Actions	Moves mouse to an element.
doubleClick(WebElement target)	Actions	Performs a double-click.
contextClick(WebElement target)	Actions	Right-clicks on an element.
dragAndDrop (WebElement source, WebElement target)	Actions	Drags and drops an element.
sendKeys(Keys key)	Actions	Simulates keyboard key press.

Handling Dropdowns (Select Class)

If you are working with **<select>** dropdowns, Selenium provides a Select class:

Method	Return Type	Description
selectByVisibleText (String text)	void	Selects an option by visible text.
selectByValue(String value)	void	Selects an option by its value attribute.
selectByIndex(int index)	void	Selects an option by index (starting from 0).
getOptions()	List <webelement></webelement>	Gets all options inside a dropdown.
getFirstSelectedOption()	WebElement	Gets the first selected option.

Working with iFrames

If a webpage has **iFrames**, Selenium needs to switch focus before interacting:

Method	Return Type	Description
switchTo().frame(int index)	void	Switches to a frame by index.
switchTo().frame(String nameOrId)	void	Switches to a frame by name or ID.
switchTo().defaultContent()	void	Switches back to the main page.

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