

WebDriver Methods/Commands

WebDriver Methods/Commands:-

WebDriver method or command is a interface used to perform actions on web element/Webpage.

Get Methods/Commands:-

1. Get Method- To launch URL in browser

It is used to enter URL in a browser and it will wait for fully loaded the webpage.

```
Syntax :- driver.get("url");  
Eg. driver.get("https://www.amazon.com/");
```

2. Get Title Method - returns title of page

It is used to get/return title of webpage

```
Syntax :- driver.getTitle();  
Eg. driver.getTitle();
```

3. Get CurrentURL Method - Returns current URL of webpage

It is used to get/return current URL of webpage

```
Syntax :- driver.getCurrentUrl();  
Eg. driver.getCurrentUrl();
```

4. Get PageSource Method - Returns HTML code of webpage

```
Syntax :-driver.getPageSource();  
Eg.driver.getPageSource();
```

Navigate Commands/Methods

Navigate is used to back,forward,refresh the browsers.

5. navigate().to()

It is used to navigate from one webpage to other webpage and load new URL/webpage in the existing window of browser

```
Syntax :- driver.navigate().to("URL");
```

6. Forward command

This method is used to click on the forward button (arrow) of the browser window

```
Syntax :-driver.navigate().forward();
```

7. Back command

This method is used to click on back button (arrow) of the browser window

```
Syntax :- driver.navigate().back();
```

8. Refresh command

This method is used to refresh/reloads the current webpage in the browser

```
Syntax :- driver.navigate().refresh();
```

Browser Commands/Methods

9. Close - to close particular window

This method is used to close current browser window or selenium focused browser window

```
Syntax :- driver.close();
```

10. Quit - to close all windows

This method is used to quit/close all windows present in browser. It will use to end selenium script

```
Syntax :- driver.quit();
```

11. Maximize - To maximize launched browser

This method is used to maximize the browser window

```
Syntax :-driver.manage().window().maximize();
```

12. Thread.sleep() -

It is used to stop loading of browser for some time by providing second

```
Syntax :- Thread.sleep();
```

Selenium Locators

Selenium Locators

- Locators are nothing but it is technique used to find web elements which are present on webpage.
- Each web element has it's certain position on webpage so selenium locators are used to find web element from webpage.
- Locators are methods of By class by which we can find element.
- Selenium Locators are one of the most powerful command
- It is the building block of selenium for automation script/testing.
- Hence it helps to locate GUI elements through which multiple user actions we can perform.
- The locators are one of the most important parameters for scripting base foundation and they may lead script failure
- Locating elements in Selenium WebDriver is performed with the help of findElement() and findElements() methods provided by WebDriver and WebElement class.

There are 8 locators which are used to find the web elements from the webpage

1. TagName
2. Id
3. Name
4. ClassName
5. CSS selector
6. Link Text
7. Partial LinkText
8. Xpath
 - a. Absolute xpath
 - b. Relative xpath

1. ID :-

- The most efficient way and preferred way to locate an element on a web page is By ID.
- ID will be the unique on web page which can be easily identified.
- IDs are the safest and fastest locator option
- It is like an Employee Number or Account which will be unique.
- Locates an element using the ID attribute

Syntax :- driver.findElement(By.id("id value"));
Eg. driver.findElement(By.id("search_query_top"));

2. Name

- Locating elements by name is similar to locating by ID except we use name as prefix
- When there is no Id to use, the next worth seeing if the desired element has a name attribute.
- But make sure there the name cannot be unique all the times.
- Locates an element using the Name attribute

```
Syntax :-driver.findElement(By.name("name_value"));  
Eg . driver.findElement(By.name("submit_search"));
```

3. ClassName

- Locates an element using the Class attribute

```
Syntax :-driver.findElement(By.className("value"));  
Eg . driver.findElement(By.className("submit_search"));
```

4. TagName

- Locates an element using the HTML tags
- Tag Name can be used with Group elements like , Select and check-boxes / dropdowns.

```
Syntax :-driver.findElement(By.tagName (<htmltagname>))
```

5. Link Text

- This type of locator applies only to hyperlink texts.
- Finding an element with link text is very simple. But make sure, there is only one unique link on the web page.

```
Syntax :-driver.findElement(By.linkText("Text"));  
Eg.driver.findElement(By.linkText("Login"));
```

6. Partial Link Text

- Locates a link using the link's partial text if text is too long.

```
Syntax :-driver.findElement(By.partialLinkText("webpage_partial_value"));  
Eg.driver.findElement(By.partialLinkText("password"));
```