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Selenium WebDriver Commands - Getting Started List (Selenium 4 - Session 11)

Selenium WebDriver is an API, which contains a set of predefined library of commands / methods.

 Google Search "Selenium Java WebDriver API" and find the predefined methods of WebDriver interface

Lets start using the Predefined methods of Selenium WebDriver.

- get()
 - Used to open the specified URL's web page
 - http:// needs to be provided, otherwise the specified URL wont get opened
- manage().window().maximize()
 - Used to maximize the current web page
- manage().window().minimize()
 - Used to minimize the current web page and execute the script
- findElement()
 - By class and its predefined methods
 - id() By.id("confirm")
 - name() By.name("q")
 - className() By.className("classone")
 - linkText() By.linkText("compendiumdev")
 - partialLinkText() By.partialLinkText("compendium")
 - cssSelector() By.cssSelector("#confirm")
 - xpath() By.xpath("//input[@id='confirm']")
 - WebElement
 - Predefined interface in Selenium
 - The purpose of using WebElement
 - Store the UI element located by the findElement() to reference variable of WebElement interface
- click()
 - Used to <u>perform click operation on different UI elements</u> like Button, link, checkbox option and radio option etc
- sendKeys()
 - Used to enter text into the text fields like text box, text area, password fields etc.
- clear()
 - Used to clear the text available in the text box or text area fields
- **getText()** used to retrieve the element text(the text between two html tag)
- get lext() used to retrieve the element text(the text between two num tag)

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getCurrentUrl()

Used to retrieve the URL of the current web page

close()

Used to close the current Browser window

quit()

 Used to close all the Browser windows (i.e. All the browser windows, including child windows will be closed)

getAttribute()

• Used to retrieve the value stored in the specified attribute value of the html element

• isDisplayed()

• Used to find out whether the element is displayed on the page (i.e. available on the page) before performing operations on it

• isEnabled()

 Used to find out whether the element is enabled or disabled before performing operation on it

isSelected()

• Used to find out whether the <u>radio options</u> and <u>checkbox options</u> are selected or not.

• navigate()

 Used to perform operations like navigate back to previous page, navigate forward again or refreshing the current

getPageSource()

 Used to retrieve all the source code of the current page and return in the form of String

submit()

Used to submit a form - Example: Search text field and Search Button on Omayo

getTagName()

 Used to get the html tag of the provided element - Example: find tag name of Search text field

getCSSValue()

```
o driver.findElement(By.id("home")).getCssValue("line-height");
```

getSize()

- Used to get the height and width of the given element
- o Dimension d =driver.findElement(By.id("but2")).getSize();
- o d.height and d.width

getLocation()

- Used to get the x and y coordinate position of the given element
- o Pointp=driver.findElement(By.id("but2")).getLocation();
- o p.x and p.y

getRect()

- Used to get the x and y coordinate position of the given element, along with height and width of the element
- o Rectangle rectangle = driver.findElement(By.id("but2")).getRect()
- o rectangle.getX()

- rectangle.getY()rectangle.getWidth()
- o rectangle.getHeight()
- fullScreen()
 - Used to display the web page in full screen mode
 - o driver.manage().window().fullscreen();
- setSize()
 - Used to resize the browser window in the specified dimensions
- getClass()
 - Used to retrieve the Class name of the provided object
 - driver.getClass().getSimpleName()
- pageLoadTimeout()
 - Used to change the default time for loading web page
 - driver.manage().timeouts().pageLoadTimeout(Duration.ofSeconds(3));

The below are the list of Selenium WebDriver commands, which I will be explaining later as per the need basis:

- findElements() this will return list of web elements
- By.tagName()
- getScreenshotAs()
- getFullPageScreenshotAs()
- getWindowHandle()
- getWindowHandles()
- window()
- newWindow()
- switchTo()
- selectByVisibleText()
- selectByIndex()
- selectByValue()
- isMultiple()
- getOptions()
- getFirstSelectedOption()
- getAllSelectedOptions()
- deselectByVisibleText()
- deselectByIndex()
- deselectByValue()
- deselectAll()
- frame()
- parentFrame()
- defaultContent()
- implicitlyWait()
- until()
- visibilityOfElementLocated()
- elementToBeClickable()
- invisibilityOfElement| ecoted()

- // Launch Browser (Chrome)
- // ChromeDriver driver = new ChromeDriver();
 WebDriver driver = new ChromeDriver();
- // maximize size of page
 driver.manage().window().maximize();
- // Open URL https://demo.opencart.com/
 driver.get("https://tutorialsninja.com/demo/");
- // Validate title "Your Store"
 String act title = driver.getTitle();
- if(act_title.equals("Your Store"))
- System.out.println("FirstDemo.main() | Test Passed"); else
- System.out.println("FirstDemo.main() | Test Failed....");

Thread.sleep(2000);

// return web element

WebElement element = driver.findElement(By.id("search"));

element.sendKeys("HP");

driver.findElement(By.className("input-group-btn")).click(); Thread.sleep(2000);

// Close Browser
// driver.close();

driver.quit();

- IIIVISIDIIILYOTEIEIIIEIILLOCALEU()
- alert()
- getText() Alert
- accept()
- dismiss()
- alertIsPresent()
- sendKeys()- Alert
- moveToElement()
- click() Actions
- dragAndDropBy()
- contextClick()
- doubleClick()
- dragAndDrop()
- keyDown()
- keyUp()
- sendKeys() Actions
- chord()
- build()
- perform()
- executeScript()
- executeAsyncScript()
- getCookie()
- getCookieNamed()
- addCookie()
- > addCookie()
- > deleteCookie()
- > deleteCookieNamed()
- > deleteAllCookies()
- > below()
- > above()
- > toRightOf()
- > toLeftOF()
- > near()

Manually Creating WebDriver Project

- 1. Open Eclipse IDE and Create New Project as WebDriverProject
- 2. Download latest Stable selenium JAR files (selenium.dev). Extract it. Browser Specific drivers available with JAR (Stable: 04.18.01)
- 3. Attach Jar to project

Right click > Properties > Java build path > libraries > Classpath > Add External jars > select all jars > Open > again > Add External jars > select all jars inside lib folder > Open > Apply and close. you will see Referenced Libraries.

Create Maven Project ---> Recommended

- 1. Open Eclipse IDE and Create maven project.
- 2. Group ID and Artifact ID project name. click finish
- 3. open pom.xml and necessary dependencies. (mvnrepository.com)
 - Selenium Java + Web Drivers