07-FEB-2020

===========

Note: WebDriver will launch browser in 'Safe Mode'

Safe mode means there is no history, bookmarks and Addons for browser.

\*\*\* I.Q. 2. WORKING WITH IE BROWSER

=======================

To work with IE browser we need to run IE driver server executable file and also we need to create object for InternetExplorerDriver() class.

-------------------------------- ------------------------------------------------

PROCEDURE

=========

Step 1:

------

Download IE driver executable file (from www.selenium.dev)

Extract into working folder

Step 2:

------

System.setProperty("webdriver.ie.driver","path of executable file");

Step 3:

-------

Create object for InternetExplorerDriver();

Syntax:

-------

WebDriver obj = new InternetExplorerDriver();

Note: To work with IE browser we need to change following settings in IE browser

1. Set IE browser zoom level to 100%

2. Set All the 4 zones "Security Options" either ON/OFF in "Internet Options"

3. Tick mark on all the 4 zones.

Ex: Write script to launch IE browser

----------------------------------------------------------------------------------------------------------------------------------------------

Script:

------

System.setProperty("webdriver.ie.driver",".\\Driver\\IEDriverServer.exe");

WebDriver driver = new InternetExplorerDriver();

====================================================================================================================================================================

\*\*\*I.Q. 3. WORKING WITH Microsoft Edge BROWSER

=====================================

(For Windows 10 OS Only)

To work with Edge Browser we need to run Microsoft WebDriver server executable file and also we need to create object for EdgeDriver() class.

------------------------------------------ -------------------------------------

PROCEDURE

=========

Step 1: Download Microsoft WebDriver executable file

------

In Google search --> Download Microsoft WebDriver

Step 2: Specify Microsoft WebDriver executable file path in the script

------

Syntax:

System.setProperty("webdriver.edge.driver","path of executable file");

Step 3:

------

Create object for EdgeDriver() class

Syntax:

------

WebDriver obj = new EdgeDriver();

------------------------------------------------------------------------------------------------------------------------------------------------------------------

Ex: Write script to launch Edge browser

Script:

------

System.setProperty("webdriver.edge.driver",".\\Driver\\MicrosoftWebDriver.exe");

WebDriver driver = new EdgeDriver();

====================================================================================================================================================================

\*\*\* I.Q. 4. WORKING WITH FIREFOX BROWSER

============================

To work with Firefox (FF) Browser we need to run gecko driver executable file and also we need to create object for FirefoxDriver() class.

------------------------------------ ---------------------------------------

PROCEDURE

=========

Step 1: Download Gecko Driver executable file

------

URL: https://github.com/mozilla/gecodriver/releases (We can go from www.selenium.dev -- Click on Browsers)

We will find (geckodriver-v0.26.0-win64.zip -- 1.46 MB) as on 03-Mar-2020

Step 2:

------

Specify gecko driver executable file path in the script

Syntax:

System.setProperty("webdriver.gecko.driver","path of executable file");

Step 3:

------

Create object for FirefoxDriver() class

Syntax:

------

WebDriver obj = new FirefoxDriver();

------------------------------------------------------------------------------------------------------------------------------------------------------------------

Ex: Write script to launch FF browser

Script:

------

System.setProperty("webdriver.gecko.driver",".\\Driver\\geckodriver.exe");

WebDriver driver = new FirefoxDriver();

Note: Make sure that Firefox is installed in your system(local machine)

====================================================================================================================================================================

Note: I.Q.

\*\*\* Sometimes it is possible to launch browser without writing System.setProperty() statement in the script by maintaining corresponding browser server

executable file in java project at Eclipse

--> Also if you are working with lower Selenium version we can run the script without System.setProperty() statement

====================================================================================================================================================================

Note:

Sometimes we can maintain Browser server .exe files in seperate folder (i.e. Drivers under Java project then we need to specify path of server using

System.setProperty();

Ex:

System.setProperty("webdriver.gecko.driver","./Driver\\geckodriver.exe");

Here ./ ---> represents the path of project working directory

====================================================================================================================================================================

BROWSER INTERACTION COMMANDS

============================

1. get():

=====

To navigate specified URL

Syntax: driver.get("URL");

Note: URL should be given as http or https

(It is ok if we don't mention www)

[http ---> Hyper Text Transfer Protocol]

[https --> Hyper Text Transfer Protocol Secure]

------------------------------------------------------------------------------------------------------------------------------------------------------------------

2. maximize():

==========

To maximize browser window

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

------------------------------------------------------------------------------------------------------------------------------------------------------------------

3. getPageSource():

===============

To read page source code

Syntax: driver.getPageSource();

(Sometimes due to security reasons can't click on right click // For E.g. SBI netbanking site)

------------------------------------------------------------------------------------------------------------------------------------------------------------------

4. close():

=======

To close the focused/ Active window in a browser

Syntax: driver.close();

------------------------------------------------------------------------------------------------------------------------------------------------------------------

5. getTitle()

==========

This method is used to read page title

Syntax: driver.getTitle();

(or) // using variable

String title = driver.getTitle();

System.out.println(title);

-------------------------------------------------------------------------------------------------------------------------------------------------------------------

6. getCurrentURL():

===============

To read current page URL();

\*\*\* I.Q. Syntax:

------

driver.getCurrentURL();

Note: How to find or verify the title/page if we have multiple windows opened

Ans. getCurrentURL()

-------------------------------------------------------------------------------------------------------------------------------------------------------------------

7. quit():

======

It is used to close all the opened windows in a browser

Syntax: driver.quit();

Note: It will close multiple windows

-------------------------------------------------------------------------------------------------------------------------------------------------------------------

I.Q. Tell navigate methods

navigate().To() , navigate.back() , navigate.forward() , navigate.refresh()

====================================================================================================================================================================

Script

======

// to launch Chrome Browser

System.setProperty("webdriver.chrome.driver",".\\Driver\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

// to open FB

driver.get("https://facebook.com");

// to maximize browser

driver.manage().window().maximize();

// to read pagesource code

String pgSource = driver.getPageSource();

System.out.println(pgSource);

// to close application

driver.close();

------------------------------------------------------------------------------------------------------------------------------------------------------------------

Note: To identify [String] data type ---> mouse over on PageSource

String.pgSource

Here -- String is Data type & pgSource is a variable

Variable can be written in small & Capitals

Ex: pgSource, pgsource

To display source code use System.out.println

WebDriver driver = new ChromeDriver(); // This step will launch the browser

Here WebDriver is a Interface and driver is the Reference Object creator

new -- is to create memory for ChromeDriver() class

=========================================================================END OF CLASS===============================================================================