19-Feb-2020

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d. getFirstSelectedOption(): // Method will not have spaces

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-- Using this method we can read selected value from static dropdown

Syntax: obj.getFirstSelectedOption().getText();

-- It will return selected

Ex-12 : Write script to select "March" in "Month" dropdown at FB-Home Page, if other than "March" exist in dropdown

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

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

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

//to read value which is selected in "Month" dropdown

Select listMonth=new Select(driver.findElement(By.id("month")));

String monthName=listMonth.getFirstSelectedOption().getText();

System.out.println(monthName);

if(monthName.equalsIgnoreCase("Mar")) {

System.out.println("Expected month exist");

}

else {

System.out.println("WD selected required month");

listMonth.selectByVisibleText("Mar");

}

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

e. getOptions():

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-- To read all the options from static dropdown we can use getOptions() method

f. getText():

----------

-- To read visible text of each option in dropdown

Ex-13: Write script to find number of options in "Year" dropdown and print those values in Console from FB- Home Page

Note: How to read values from static dropdown

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

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

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

Select listYear=new Select(driver.findElement(By.name("birthday\_year")));

//to collect all the options info. from dropdown

List<WebElement> options= listYear.getOptions();

System.out.println("Number of values are: "+options.size());

for(WebElement option : options) {

//to read each option visibletext

System.out.println(option.getText());

}

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

\*\*\*Ex-14 Write script to select given country name in "Country" dropdown at Mercury Tours application

Scanner sc= new Scanner(System.in);

System.out.println("Enter required Country name");

String myCountry=sc.nextLine();

boolean myStatus= false;

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("http://newtours.demoaut.com");

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

//to click on "REGISTER" link

driver.findElement(By.linkText("REGISTER")).click();

//to configure "Country" dropdown to Select class

Select listCountry=new Select(driver.findElement(By.name("country")));

//to read all the options from dropdown

List<WebElement> options= listCountry.getOptions();

for(WebElement option: options) {

String actCountry=option.getText().trim();

if(actCountry.equalsIgnoreCase(myCountry)) {

//to select country

listCountry.selectByVisibleText(actCountry);

System.out.println("Expected country name exist");

myStatus= true;

break;

}

}

if(myStatus==false) {

System.out.println("Expected country name doesn't exist");

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

Ex-15 Write script to select given year in "Year" dropdown at FB-Home Page

Scanner sc= new Scanner(System.in);

System.out.println("Enter required year");

String expYear=sc.nextLine();

boolean myStatus= false;

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

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

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

Select listYear=new Select(driver.findElement(By.name("birthday\_year")));

//to collect all the options info. from dropdown

List<WebElement> options= listYear.getOptions();

for(WebElement option : options) {

String actYear=option.getText();

if(actYear.equals(expYear)) {

System.out.println("Expected year exist");

listYear.selectByVisibleText(actYear);

myStatus= true;

break;

}

}

if(myStatus == false) {

System.out.println("Expected year doesn't exist");

}

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

Note:

deselectAll()

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Using this method we can deselect all the selected options from static dropdown

deselectByIndex()

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

Using this method we can deselect option based on index

deselectByValue()

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

Using this method we can deselect option based on value attribute

deselectByVisibleText()

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Using this method we can deselect option based on visible text

6. Working with Links

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To address hyper links we use linkText/partial LinkText

Links tagname will be "a" (i.e. anchor tag)

To read visibletext of link we can use getText() method

\*\*\* Which class will be used for static dropdown\*\*\*\*

Ans. Using Select class

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Ex-16: Write script to find 'number of links in rediffmail home page' and print those links in console

// To initialize the browser

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

WebDriver driver=new ChromeDriver();

driver.get("https://www.rediff.com/");

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

// To get count of links

List <WebElement> links= driver.findElements(By.tagName("a"));

System.out.println("number of links are: "+links.size());

for (WebElement link : links)

System.out.println(link.getText());

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

\*\*\*Ex-17: Write script to find 'number of language links in www.google.co.in' \*\*\*\*

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("http://google.co.in");

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

//create reference object for language links parent object

WebElement myLanguages=driver.findElement(By.id("SIvCob"));

//to collect all the language links info. from specific area in a page

List<WebElement> links= myLanguages.findElements(By.tagName("a"));

System.out.println("Number of links are: "+links.size());

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

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

\*\*\* Working on Web Table \*\*\*

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When webelements are created in terms of rows and columns in a page then it is called Web Table

naming convention for WebTable in a HTML page

table --> is a tagname for Table

tbody --> tagname for Table body

th ---> tagname of table header

tr ---> tagname of Table row

\*\*\*\* How will you or which tag is used for count \*\*\*

"tr" tags count

number of "tr" tags count is a number of Rows in table

td --> Celldata/ Table data

number of "td" tags count in "tr" tag is number of columns in a row

-- getText() method we can use to read cell data

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

HTML code

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<table>

<tbody>

<tr>

<th>

<th>

<th>

<tr>

<td>

<td>

<td>

<tr>

<td>

<td>

<tr>

<td>

<td>

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

Ex-18: Write program to read data from 2nd row of 3rd column from Web Table

url: https://www.w3schools.com/html/html\_tables.asp

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("https://www.w3schools.com/html/html\_tables.asp");

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

//to read 2nd row 3rd column cell data

String cellData=driver.findElement(By.xpath("//\*[@id='customers']/tbody/tr[2]/td[3]")).getText();

System.out.println(cellData);

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

Ex-19: Write script to "read all the cell values from WebTable"

Procedure-1:

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("https://www.w3schools.com/html/html\_tables.asp");

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

//create reference object for WebTable

WebElement myTable=driver.findElement(By.id("customers"));

List<WebElement> trs=myTable.findElements(By.tagName("tr"));

System.out.println("Number of rows are: "+trs.size());

//to find no. of tds in each tr

for(WebElement tr : trs) {

List<WebElement> tds=tr.findElements(By.tagName("td"));

System.out.println("Number of tds are: "+tds.size());

for(WebElement td : tds) {

System.out.println(td.getText()+" ");

}

System.out.println();

}

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

Procedure-2

//To initialize browser

System.setProperty("webdriver.chrome.driver", "./Drivers//chromedriver.exe");

WebDriver driver= new ChromeDriver();

driver.get("https://www.w3schools.com/html/html\_tables.asp");

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

//create reference object for WebTable

WebElement myTable=driver.findElement(By.id("customers"));

List<WebElement> tds=myTable.findElements(By.tagName("td"));

for(WebElement td : tds) {

System.out.println(td.getText());

}

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