**LIST BOX/ DROPDOWN HANDLING**

Process to handle list box/dropdown (Verify tag name of dropdown/listbox is 🡪select)

1. Identify list box to be handled and store it in reference variable

eg: WebElement states=driver.findElement(By.xpath("//select[@name='States']"));

1. Create an object of Select class which will accept WebElement as argument

Select s= **new** Select(states);

1. By using one of the select class **methods** we can select values form list box like

1. selectByVisibleText: selectByVisibleText(String arg0)

2. selectByIndex: selectByIndex(int arg0)

3. selectByValue: selectByValue(String arg0)

Eg: s.selectByIndex(0);

s.selectByIndex(2);

s.selectByVisibleText("Washington");

The following are the most common methods used on Selenium dropdown list.

|  |  |
| --- | --- |
| **Method** | **Description** |
| **selectByVisibleText()**and  **deselectByVisibleText()** | * Selects/deselects the option that displays the text matching the parameter. * **Parameter**: The exactly displayed text of a particular option |
| **selectByValue()** and  **deselectByValue()** | * Selects/deselects the option whose "value" attribute matches the specified parameter. * **Parameter**: value of the "value" attribute * Remember that not all drop-down options have the same text and "value", like in the example below. |
| **selectByIndex()** and  **deselectByIndex()** | * Selects/deselects the option at the given index. * **Parameter**: the index of the option to be selected. |
| **isMultiple()** | * Returns TRUE if the drop-down element allows multiple selections at a time; FALSE if otherwise. * **No parameters needed** |
| **deselectAll()** | * Clears all selected entries. This is only valid when the drop-down element supports multiple selections. * **No parameters needed** |

**Use link for multiple select options**: <https://www.seleniumeasy.com/test/basic-select-dropdown-demo.html>

DropDown Example 1🡪 using selectByValue

package DropDownStudy;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.Select;

public class Dropdowneg1 {

public static void main(String[] args) throws InterruptedException {

System.setProperty("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= new ChromeDriver();

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

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

Thread.sleep(1000);

driver.findElement(By.xpath("//a[@ajaxify='/reg/spotlight/']")).click();

//step1: decide list box to handle and store in ref variable

Thread.sleep(1000);

// WebElement Day = driver.findElement(By.id("day"));//step1

//step2: create an object of select class and pass ref-element

// Select s= new Select(Day);//step2 Day passed in Select

Thread.sleep(1000);

//step3:use select object and call any of three methods as per need

// s.selectByValue("10");//step3: value 10 is passed

//

// List<WebElement> DayOptions = s.getOptions();

// System.out.println(DayOptions.size());

// s.selectByValue("10");

// Thread.sleep(1000);

// WebElement Month = driver.findElement(By.name("birthday\_month"));

// Thread.sleep(1000);

// Select s1= new Select(Month);

// s1.selectByIndex(3);

//

// Thread.sleep(1000); // z,.

//

WebElement Year = driver.findElement(By.id("year"));

Select s2= new Select(Year);

s2.selectByVisibleText("2007");

Thread.sleep(1000);

s2.selectByVisibleText("2010");

//System.out.println(s2.getAllSelectedOptions().getText());

//System.out.println(s2.getFirstSelectedOption().getText());

Thread.sleep(1000);

s2.deselectByVisibleText("2010");

}

}

//

DropDown Example 1🡪 using selectByVisibleText

|  |
| --- |
| package DropDownStudy;  import org.openqa.selenium.By;  import org.openqa.selenium.WebDriver;  import org.openqa.selenium.WebElement;  import org.openqa.selenium.chrome.ChromeDriver;  import org.openqa.selenium.support.ui.Select;  public class Dropdowneg3 {  public static void main(String[] args) throws InterruptedException {    System.setProperty("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");    WebDriver driver= new ChromeDriver();    driver.manage().window().maximize();    driver.get("https://en-gb.facebook.com/");    Thread.sleep(1000);  driver.findElement(By.xpath("//a[@ajaxify='/reg/spotlight/']")).click();  Thread.sleep(1000);  WebElement Month = driver.findElement(By.id("month"));  Thread.sleep(1000);  Select s= new Select(Month);  s.selectByVisibleText("Jan");  Thread.sleep(1000);  s.selectByVisibleText("Aug");  Thread.sleep(1000);  System.out.println(s.isMultiple());      }  } |

DropDown eg2\_-🡪 how to get selected option

package DropDownStudy;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.support.ui.Select;

public class Dropdowneg2 {

public static void main(String[] args) throws InterruptedException {

System.setProperty("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= new ChromeDriver();

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

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

Thread.sleep(1000);

driver.findElement(By.xpath("//a[@ajaxify='/reg/spotlight/']")).click();

Thread.sleep(1000);

WebElement Month = driver.findElement(By.id("month"));

Thread.sleep(1000);

Select s= new Select(Month);

// WebElement selectedElement = s.getFirstSelectedOption();

// System.out.println(selectedElement.getText());

System.out.println(s.getFirstSelectedOption().getText());

}

}

**package** DropDownStudy;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** Dropdowneg2 {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

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

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("//a[@ajaxify='/reg/spotlight/']")).click();

Thread.*sleep*(1000);

WebElement Month = driver.findElement(By.*id*("month"));

Thread.*sleep*(1000);

Select s= **new** Select(Month);

// WebElement selectedElement = s.getFirstSelectedOption();

// System.out.println(selectedElement.getText());

System.***out***.println(s.getFirstSelectedOption().getText());

}

}

DropDown Ex3🡪 is multiple

**package** DropDownStudy;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** Dropdowneg3 {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

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

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("//a[@ajaxify='/reg/spotlight/']")).click();

Thread.*sleep*(1000);

WebElement Month = driver.findElement(By.*id*("month"));

Thread.*sleep*(1000);

Select s= **new** Select(Month);

s.selectByVisibleText("Jan");

Thread.*sleep*(1000);

s.selectByVisibleText("Aug");

Thread.*sleep*(1000);

System.***out***.println(s.isMultiple());

}

}

DropDown eg4🡪 how to get all options and store in TreeSet

**package** DropDownStudy;

**import** java.util.List;

**import** java.util.TreeSet;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** DropDowneg4 {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

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

TreeSet<String>ts= **new** TreeSet<String>();

Thread.*sleep*(1000);

driver.findElement(By.*xpath*("//a[@ajaxify='/reg/spotlight/']")).click();

Thread.*sleep*(1000);

WebElement Month = driver.findElement(By.*id*("month"));

Thread.*sleep*(1000);

Select s= **new** Select(Month);

List<WebElement> AvailableMonths = s.getOptions();

**for**(WebElement we:AvailableMonths)

{

String Text = we.getText();

ts.add(Text);

}

System.***out***.println(ts);

**for**(String s1:ts)

{

System.***out***.println(s1);

}

}

}

DropDown eg5🡪 how to select multiple options, deselect one, dselect all

**package** DropDownStudy;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** DropDowneg5 {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

System.*setProperty*("webdriver.chrome.driver", "F:\\Velocity\\May-2021 Class\\test2\\chromedriver\_win32 (1)\\chromedriver.exe");

WebDriver driver= **new** ChromeDriver();

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

driver.get("https://www.seleniumeasy.com/test/basic-select-dropdown-demo.html");

Thread.*sleep*(2000);

WebElement States = driver.findElement(By.*name*("States"));

Select s= **new** Select(States);

System.***out***.println(s.isMultiple());

s.selectByVisibleText("California");

Thread.*sleep*(1000);

s.selectByVisibleText("New York");

Thread.*sleep*(1000);

s.selectByVisibleText("Washington");

Thread.*sleep*(1000);

//s.deselectByVisibleText("California");

s.deselectAll();

}

}