**Handling Dropdown:**

Two Types:

1. Static Dropdown
2. Dynamic Dropdown

**1.Static Dropdown:**

**Options of the dropdown are fixed**

Two Types of Static Dropdown

1. Single-Select Dropdown
2. Multi-Select Dropdown

Created by using

**<select>, <option>**

**How to handle the static dropdown???**

Since it is created by using <select>

We handle it by using Select Class.

Select Class is imported from 'org.openqa.selenium.support.ui' package

Select Class Constructor is a parameterized constructor

which takes WebElement arg where we need to pass address of the dropdown.

**Select Class Methods:**

**Selection Methods:**

1. selectByVisibleText(String arg) : void
2. selectByValue(String arg) : void
3. selectByIndex(int index) : void

**DeSelection Methods:**

1. deselectByVisibleText(String arg): void
2. deselectByValue(String arg) : void
3. deselectByIndex(int index) : void
4. deselectAll : void

**Operational Methods:**

1. isMultiple() : Boolean
2. getOptions() : List<WebElement>
3. getAllSelectedOptions() : List<WebElement>
4. getFirstSelectedOption() :WebElement
5. getWrappedElement() : WebElement

**Note:**

1. selectByIndex() can handle duplicate options
2. When we try to use deselection methods on a single select dropdown then we get **UnsupportedOperationException(Java)(RT)** i.e., Runtime Exception.

**isMultiple()**  **:** Used to verify whether it is a Single Select dropdown or multi-Select Dropdown.

ReturnType is boolean.

Returns true if it is **multi-Select dropdown**

**getOptions()** **:** Used to get the address of all the options present in the dropdown. ReturnType is **List<WebElement>.**

If no option present in dropdown then we get **emptyList**

**getAllSelectedOptions() :** Used to get the address of all the selected options.

ReturnType is **List<WebElement>.**

If no option is Selected in dropdown then we get **emptyList**

**getFirstSelectedOption():** Used to get the address of first selected option in the dropdown

ReturnType is **WebElement** **Interface.** If no option is selected then it

returns **NoSuchElementException**

**getWrappedElement()**  **:** Used to get the address of all the options wrapped into

a single address. ReturnType is **WebElement Interface.**

If no option present in dropdown then we get **NoSuchElementException**

**Note:** To create a multi-select dropdown, add the attribute 'multiple' in select tag.

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**2.Dynamic Dropdown / Custom Dropdown:**

In this kind of dropdown the Options are changing To create it we use tags like input, div, ul, li, a

**How to handle dynamic dropdown???**

Since the options are inspectable we use findElement(),findElements(),sendKeys(),click()

Since it not created by select tag hence we cant use Select class and its methods

If we use we get **UnexpectedTagNameException.**

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