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What are locators ?

Locator is a command that tells Selenium IDE which GUI elements (say Text Box, Buttons, Check Boxes etc) it needs to operate on.

There are different types of tags:
All the links are surrounded by <a> tag.

For example :

Link
<a> Home
 Home

Button
<button type="button" class="btn btn-primary" id="primaryButton">Primary</button>

<h1>Hello</h1>
<h2>Hello</h2>
<h3>Hello</h3>
<h4>Hello</h4>
<h5>Hello</h5>
<h6>Hello</h6>

<p>This is a paragraph text </p>

<iframe> </iframe>

<button type="button" class="btn btn-primary" id="buttonId" name="name" >Primary Button</button>

1. **By Id:**
driver.findElement(By.id("button")).click();

2. **By className:**
driver.findElement(By.className("btn btn-outline-primary")).click();

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3. **By name:**

driver.findElement(By.name("name")).click();

4. **By LinkText:**

driver.findElement(By.linkText("**Primary Button**")).click();

5. **By PartialLinkText:**

driver.findElement(By.partialLinkText("Primary B")).click();

6. **By tagName:**

driver.findElement(By.tagName("button")).click();

7. **By cssSelector:**

cssSelector = tag#id

- driver.findElement(By.cssSelector("button#buttonId")).click();

cssSelector = tag.class

- driver.findElement(By.cssSelector("button.**btn.btn-primary")).click();**
- driver.findElement(By.cssSelector("button.**btn")).click();**
- driver.findElement(By.cssSelector("button.**btn-primary")).click();**

cssSelector = tag[attribute='attribute value']

- driver.findElement(By.cssSelector("button[type='button']")).click();
- driver.findElement(By.cssSelector("button[class='btn-primary']")).click();
- driver.findElement(By.cssSelector("button[id='buttonId']")).click();
- driver.findElement(By.cssSelector("button[name='name']")).click();

It will find a button tag which contains the 'id' attribute starting with 'ema' text. Email starts with 'ema'

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```
<input data-drupal-selector="edit-field-image-0-alt"
aria-describedby="edit-field-image-0-alt--nwfW0pytbz4--description" type="text"
id="edit-field-image-0-alt--nwfW0pytbz4" name="field_image[0][alt]" value=""
size="60" maxlength="512" class="form-text required" required="required"
aria-required="true">
```

edit-field-image-0-alt--7j_EjIKmzUI

edit-field-image-0-alt--nwfW0pytbz4

driver.findElement(By.cssSelector("input[id^='edit-field-image-0-alt--']"));

cssSelector=button[id^='butto']
It will find a button tag which contains the 'id' attribute ending with 'ail' text. Email ends with 'mail'
cssSelector=button[id$='Id']
It will find a button tag which contains an 'id' attribute containing 'mai' text. Email contains 'mai'
cssSelector=button[id*='ton']

8. **By xPath**
   a. **Native or Absolute xPath (Not Recommended)**
   html/head/body/table/tr/td
   b. **Relative xPath (Recommended)**
//tag[@attribute='attribute value']

- driver.findElement(By.xpath("//button[@type='button']")).click();
- driver.findElement(By.xpath("//button[@class='btn-primary']")).click();
- driver.findElement(By.xpath("//button[@id='buttonId']")).click();
- driver.findElement(By.xpath("//button[@name='name']")).click();

//img[contains(@src,' imdbpro')]
//img[starts-with(@alt,' IMDbPro')]

9. **Advanced xPath**

- parentXpath//childTagName
- nextElementXpath//preceding-sibling::tagName

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- previousElementXpath//following-sibling::tagName