Iframe

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Displaying webpage as part of another webpage called as iFrame.

There are some webpages which have another webpage so while automation sometimes we may face no such element found exception because may be there is possibility of having frame/iframe

iFrame in Selenium Webdriver

- iFrame in Selenium Webdriver is a web page which is embedded in another web page
- or an HTML document embedded inside another HTML document.
- The iframe is used to add content from other sources like an advertisement into a web page.
- The iframe is defined with the <iframe> tag.

How to identify the iframe:

- We cannot detect the frames by just seeing the page or by inspecting web element or with other plugin.
- Right click on the element, if you find the option like 'This Frame' then it is an iframe.
- Right click on the page and click 'View Page Source' and Search with the 'iframe', if you can find any tag name with the 'iframe' then we can say the page consist

How to switch over the elements in iframes

We can switch over the elements and handle frames in Selenium using 3 ways.
- By Index
- By Name or Id
- By Web Element

1. Switch to the frame by index:

Index is one of the attributes for frame handling in Selenium through which we can switch to it.

```
driver.switchTo().frame(0);
driver.switchTo().frame(1);
```

2. Switch to the frame by Name or ID:

Name and ID are attributes for frame handling in Selenium through which we can switch to the iframe.

```
driver.switchTo().frame("iframe1");
driver.switchTo().frame("id of the element");
```

3. Switch to the frame by Web Element:
We can switch to the iframe using web element .
driver.switchTo().frame(WebElement);

Identify total number of iframes:
int size = driver.findElements(By.tagName("iframe")).size();

How to switch back to the Main Page

➢ To move back to the parent frame, we can use
driver.switchTo().parentFrame();

➢ To get back to the main (or most parent) page, we can use
driver.switchTo().defaultContent();

Check for nested Iframe

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