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GROUP INDEX:

If element doesn't have attribute and text or all the elements have duplicate attribute & duplicate text, we cannot apply independent-dependent concept, then we can use Group Index. Rewrite the path expression inside brace and then we write the index for the outside the brace.

Ex. //input → A B C D

(//input)[1] → A

(//input)[4] → D

(//input[2])[1] → B →

B
D

 1 ✓

2

Q: XPATH to identify the help icon present in acliTIME home page.

⇒ `(//div[@class = 'popup-menu-arrow'])[3]`

⇒ `(//div[@class = 'popup-menu-arrow'])[last()]`

`//a` → All the links

`//a[1]` → All the first link

`(//a)[1]` → First link

`(//a)[5]` → fifth link

`(//a)[last()]` → last link

`(//a)[last()-1]` → last second link.

`(//a)[1]/(//a)[last()]` → First & last link.

Q: XPATH to identify all the checkbox? Spiders Site Ref

⇒ `//input[@type = 'checkbox']`

Q: XPATH for first & last checkbox!

⇒ `(//input[@type = 'checkbox'])[1]/(//input[@type = 'checkbox'])[last()]`

⇒ `(//input[@type = 'checkbox'])[position() <= 3]`

⇒ `(//input[@type = 'checkbox'])[position() > last()-3]`

⇒ `(//input[@type = 'checkbox'])[position() mod 2 = 0]`

Out of 8 locators following 4 are the important ones.

1. `id()`

2. `name()`

3. `linkText()`

4. `xpath()`

Q. Write a script to perform following steps:

- Open browser
- enter URL
- enter UN
- enter PWID
- click on login button
- Verify home page is displayed
- click on logout
- Verify that login page is displayed.
- Close the browser.

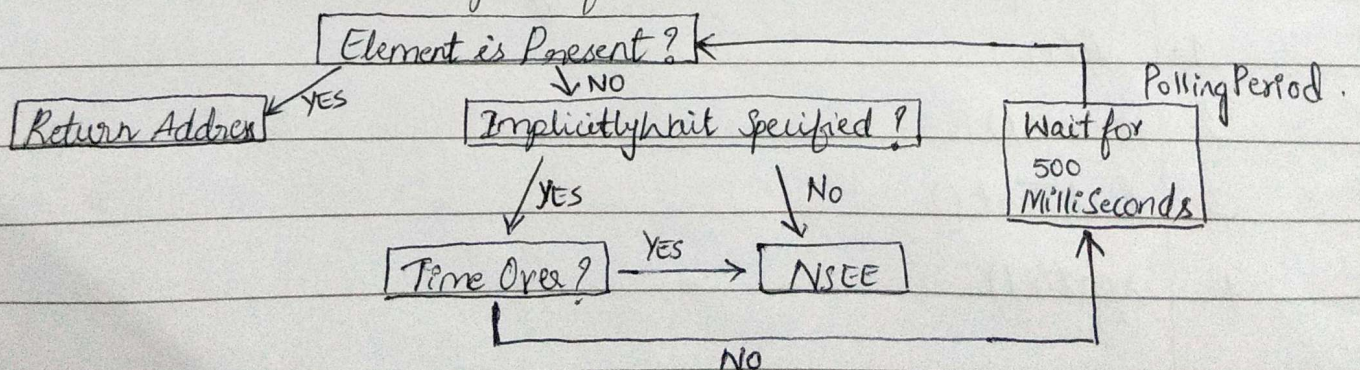
Process of matching Selenium speed with application is called as synchronization.

In selenium, if the applⁿ is slow, then we get `NoSuchElementException` even though specified locator is correct. In order to match the execution speed of selenium with applⁿ, we can use `implicitlyWait()`.

⇒ `driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS)`

TimeUnit can be ^①DAYS, ^②HOURS, ^③MINUTES, ^④SECONDS, ^⑤MILLISECONDS, ^⑥MICROSECONDS, ^⑦NANOSECONDS

TimeUnit is an example for enum.



//_

Implicitly Wait is used by all `findElement()` and `findElements()` methods when they are not able to locate the element.

- First it checks, whether element is present or not. If
- If element is present it returns the address.
- If the element is not present then it checks whether
- `implicitlyWait()` is specified.
- If it is not specified it will throw `NSEE`. (`findElements()` method will return empty list)
- If `implicitlyWait()` is specified & time is over, then also we get exception or empty list.
- If time is not over, then it waits for 500 milliseconds & then it will continue to search.

Explicit Wait :-

To handle the synchronization of any method, we can use explicit wait. `WebDriverWait()` itself is called as explicit wait because we have to specify waiting condition explicitly.

