Session-18 -Implicit, Explicit & Fluent Wait

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What Is Synchronization Issue

✓ Process of **matching test automation tool speed** with **speed of application under test** is **synchronization**.

✓ Whenever **webdriver** tries to **perform operation on element not loaded in application under test**, in such case webdriver will **throw exception** "**NoSuchElementExpection**" or "**ElementNotVisibleExpection**". This happens **due to synchronization issue.**

Synchronization in selenium webdriver

✓ **Thread.sleep(ms)**
✓ **Implicit wait**

Syntax:

driver.manage().TimeOuts().implicitlyWait(10,Timeunit.SECONDS);//**Before selenium 4**
driver.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(10));//*After selenium 4*

✓ **Explicit wait**

Syntax:

/*Explicit wait for dropdown Webelement*/
WebDriverWait **wait** = new WebDriverWait(driver, 10); //**Before selenium 4**
WebDriverWait **wait** = new WebDriverWait(driver,Duration.ofSeconds(10)); //*After selenium 4*
wait.until(ExpectedConditios.visibilityOfElementLocated(By.id("dropdown")));

Implicit wait:-

-Global declare
-it will applicable for all the web elements
- We need to take wait for the particular time

Explicit wait:-
- Web Element Specific
- Expected condition

✓ **Fluent wait**

//**Before selenium 4**

Wait<**WebDriver**> wait = new FluentWait<**WebDriver**>(driver)

.withTimeout(10,TimeUnit.SECONDS)

.pollingEvery(5, TimeUnit.SECONDS)

.ignoring(NoSuchElementException.class);

//**After Selenium 4**

Wait<**WebDriver**> fluentWait = new FluentWait<**WebDriver**>(driver)

```java
Wait<WebDriver> fluentWait = new FluentWait<WebDriver>(driver)
    .withTimeout(Duration.ofSeconds(10))
    .pollingEvery(Duration.ofSeconds(5))
    .ignoring(NoSuchElementException.class);
```