

# **Selenium Waits**



# **Selenium - Waits**

### Why?

 To elapse the automated task execution for a certain amount of time before continuing with the next step.

### When?

- While navigating from one page to another.
- Waiting for the Page title.
- Wait till element is displayed.

# Implicit Wait:

- To tell Webdriver to poll the DOM for a certain amount of time when trying to find an element(s) if they are not immediately available.
- The default setting is 0.
- Once set, the implicit wait is set for the life of the Webdriver object instance.

```
Webdriver driver = new FirefoxDriver();
driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
driver.get("http://somedomain/url_that_delays_loading");
WebElement myDynamicElement =
driver.findElement(By.id("myDynamicElement"));
```

# **Explicit Wait:**

- Is the code you define to wait for a certain condition to occur before proceeding further in the code.
- The simplest form of this is Thread.sleep().
- Explicit wait can be implemented using WebdriverWait in combination with Expected Condition.

### **Expected Conditions:**

Contains a set of predefined conditions to use with WebdriverWait in Java.

# Example:

Wait till Element is Clickable - it is Displayed and Enabled

```
WebdriverWait wait = new WebdriverWait(driver, 10);
WebElement element =
wait.until(ExpectedConditions.elementToBeClickable(By.id("someid")));
```

- This waits up to 10 seconds before throwing a TimeoutException.
- If it finds the element will return it in 0 10 seconds.
- WebdriverWait by default calls the ExpectedCondition every 500 milliseconds until it returns successfully

### FluentWait

- Defines the maximum amount of time to wait for a specific condition and frequency.
- Using this the condition can be checked before throwing an "ElementNotVisibleException" exception.
- Used when we have web elements which sometimes is visible in few seconds and sometimes takes more time than usual.

### **FluentWait**

- Mainly used in Ajax applications.
- We could set the default pooling period based on our requirement.
- We could ignore any exception while polling an element.

### Syntax:

```
wait wait = new FluentWait(Webdriver reference)
.withTimeout(timeout, SECONDS)
.pollingEvery(timeout, SECONDS)
.ignoring(Exception.class);
```

### **FluentWait**

# Example:

```
FluentWait<Webdriver> wait = new
FluentWait<Webdriver>(driver)
.withTimeout(45, TimeUnit.SECONDS)
.pollingEvery(5, TimeUnit.SECONDS)
.ignoring(NoSuchElementException.class);
```