**TestNG Listeners in Selenium: ITestListener & ITestResult Example**

There are two main listeners.

1. WebDriver Listeners
2. TestNG Listeners

## What is Listeners in TestNG?

Listener is defined as interface that modifies the default TestNG's behavior. As the name suggests Listeners "listen" to the event defined in the selenium script and behave accordingly. It is used in selenium by implementing Listeners Interface. It allows customizing TestNG reports or logs. There are many types of TestNG listeners available.

## Types of Listeners in TestNG

There are many types of listeners which allows you to change the TestNG's behavior.

Below are the few TestNG listeners:

1. IAnnotationTransformer ,
2. IAnnotationTransformer2 ,
3. IConfigurable ,
4. IConfigurationListener ,
5. IExecutionListener,
6. IHookable ,
7. IInvokedMethodListener ,
8. IInvokedMethodListener2 ,
9. IMethodInterceptor ,
10. IReporter,
11. ISuiteListener,
12. ITestListener .

Above Interface are called TestNG Listeners. These interfaces are used in selenium to generate logs or customize the TestNG reports.

In this tutorial, we will implement the ITestListener.

ITestListener has following methods

* **OnStart-** OnStart method is called when any Test starts.
* **onTestSuccess-** onTestSuccess method is called on the success of any Test.
* **onTestFailure-** onTestFailure method is called on the failure of any Test.
* **onTestSkipped-**onTestSkippedmethod is called on skipped of any Test.
* **onTestFailedButWithinSuccessPercentage-**method is called each time Test fails but is within success percentage.
* **onFinish-**onFinish method is called after all Tests are executed.

**Summary:**

Listeners are required to generate logs or customize TestNG reports in Selenium Webdriver.

* There are many types of listeners and can be used as per requirements.
* Listeners are interfaces used in selenium web driver script
* Demonstrated the use of Listener in Selenium
* Implemented the Listeners for multiple classes