**Retry logic-how to execute failed test cases in selenium ?**

Failed test cases can be executed in 2 ways:

1.at test level🡪@Test

2.At run time🡪best approach

Method 1: Test level approach:



Counter🡪chances

Scenario 1:if we give 3 chances to retry,

Chance 1:failed

Chance 2:failed

Chance3:failed , ultimately test case will be marked as failed

Scenario 2:chance 1:failes,chance 2:passed, ultimately test case will be marked as passed.

It can be done,

1.With the help of TestNG listeners🡪IRetryAnalyzer and methd retry

Steps:

1.Create a package named analyzer and class named RetryAnalyzer in main/java

//here,it implements IRetryAnalyzer TestNG listener class.

**public** **class** RetryAnalyzer **implements** IRetryAnalyzer {

**int** counter=0;

**int** retrylimit=3; // no of times to execute failed test case

**public** **boolean** retry(ITestResult result)

{

**if**(counter<retrylimit)

{

counter++;

**return** **true**;}

**return** **false**;

}

}

2.Add a logic in Test case annotation.

@Test(retryAnalyzer = Analyzer.RetryAnalyzer.**class**)//package\_name.class\_name.class

Method 1 at the test level is not a good approach,since we have to copy retry logic for all 100 test cases if we have.

Method 2: At run time 🡪Best approach

IAnnotationTransformer interface shd be used.,

Transform method with few parameters shd be used.

Steps:

1.create a listener class in the same package Analyzer that we have created RetryAnalyzer.

2.this listener class shd implement IAnnotationTransformer(import it to TestNG annotation)

3.Add a overridden method called transform(it is a standard method name)

4.this transform method does not return anything,but we need to pass 4 parameters here.

1.ITest annotation

2.Class

3.Constuctor

4.Method.

5.Add listeners in Testng.xml and also add test pages.

