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WHAT IS ITESTCONTEXT IN TESTNG? (SELENIUM). HOW TO USE ITESTCONTEXT IN SELENIUM?

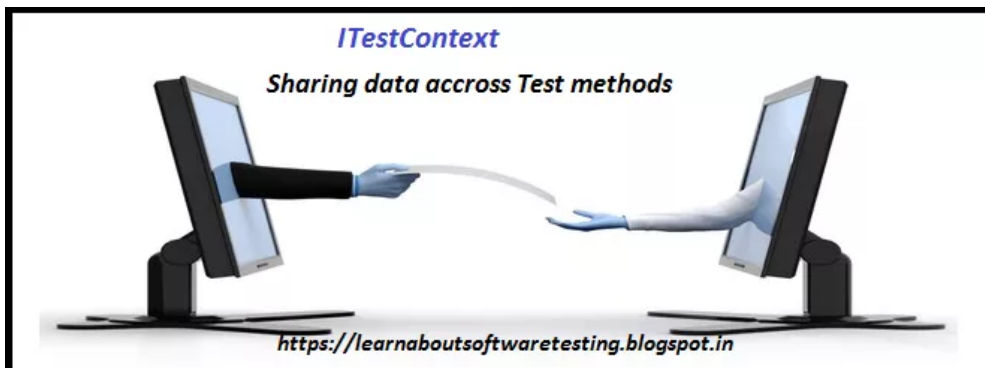
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WHAT IS ITESTCONTEXT IN TESTNG? (SELENIUM). HOW TO USE ITESTCONTEXT IN SELENIUM?

Prakash Narkhede Uncategorized TestNG

Sharing data across Tests in different TestClasses –



ITestContext is basically used to store and share data across the tests in selenium by using TestNG framework.

Let us consider below scenario –

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We have 10 test cases (@Test methods) to be executed to complete one end to end test case. Now in call 10 test cases (@Test methods) we are sharing some data like "Customer_id", which should be unique and same in our end to end test case i.e. in our 10 @Test methods. During the execution of end to end test case, it should be same.

To handle this scenario, we have two ways –

1. If all 10 @Test methods are in same class, then we can store "Customer_id" in a class level variable (instance variable) and share it. But it may require high maintenance.

2. Another way to handle this is, ITestContext

Let us see How ITestContext works.

In any @Test method, we can use "ITestContext" by passing it as a parameter to the method. Syntax as below –

```
@Test
public void test1a(ITestContext context){

}
```

Here, we can set the value that we want to share in ITestContext, as below –

```
@Test
public void test1a(ITestContext context){

    String Customer_id = "C11012034";
    context.setAttribute("CustID", Customer_id);
}
```

Now, we can get this value, which is stored in ITestContext variable with other tests, as below –

```
String Customer_id1 = (String) context.getAttribute("CustID");
```

Below piece of code can help you to understand how ITestContext works.

```
package iTestContextLearn;

import org.testng.ITestContext;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class Test1 {

    @BeforeTest
    public void SetData(ITestContext context){

        String Customer_id = "C11012034";
        context.setAttribute("CustID", Customer_id);
        System.out.println("Value is stored in ITestContext");
        System.out.println("+++++");
    }
}
```

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```
}
@Test
public void Test1a(ITestContext context){
    String Customer_id1 = (String) context.getAttribute("CustID");
    System.out.println("In Test1, Value stored in context is: "+Customer_id1);
    System.out.println("++++++");

}
@Test
public void Test2a(ITestContext context){
    String Customer_id1 = (String) context.getAttribute("CustID");
    System.out.println("In Test2, Value stored in context is: "+Customer_id1);
    System.out.println("++++++");

}
}
```

Note: All the @Test methods that we are going to run must be in one class only.

We will be calling methods from different other classes. We can share the data with methods of different classes.

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I am Prakash Narkhede, having 8+ years of experience in Test Automation using various open source tools like Selenium, RestAssured, Jmeter, TOSCA, and other. I am very much passionate about writing a technical blog. I am Here to share Manual & Automation tools in software Testing.

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