

I'm not robot!

Listener class TestNG annotation, which listens to every event that occurs in a Selenium code. TestNG Listeners are activated either before the test or after the test case. It is an interface that modifies the TestNG behavior. If any event occurs an event for which we want the listener to listen then it executes the code, which ultimately results in modifying the default behavior of TestNG. There are various types of TestNG listeners out of which we shall be using ITestListener in our tests. The ITestListener is an interface which has unimplemented methods by default and we can add lines of code within each method. So whenever a specific event occurs, the code written within that method will be executed. onTestFailure is a method in which this listener will be invoked whenever the test fails. Within this method we shall add our code to capture screenshots whenever the test case fails on execution. package Listener; import com.aventstack.extentreports.Status; import com.aventstack.extentreports.markuputils.ExtentColor; import com.aventstack.extentreports.markuputils.MarkupHelper; import org.testng.ITestContext; import org.testng.ITestListener; import org.testng.ITestResult; import sun.misc.BASE64Decoder; import testCases.BaseTest; import java.io.IOException; import static testCases.BaseTest.CaptureScreenshot; public class MyListener implements ITestListener { public void onStart(ITestResult iTestResult) { } public void onSuccess(ITestResult iTestResult) { BaseTest.test.log(Status.PASS,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ PASS",ExtentColor.GREEN)); } public void onTestFailure(ITestResult iTestResult) { BaseTest.test.log(Status.FAIL,iTestResult.getThrowable().getMessage()); BaseTest.test.log(Status.FAIL,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ FAIL",ExtentColor.RED)); try { BaseTest.test.addScreenCaptureFromPath(CaptureScreenshot(BaseTest.driver)); BaseTest.test.addScreenCastFromPath(CaptureScreenshot(BaseTest.driver)); } catch (IOException e) { e.printStackTrace(); } } public void onTestSkipped(ITestResult iTestResult) { BaseTest.test.log(Status.SKIP,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ SKIPPED",ExtentColor.PURPLE)); } } public void onTestFailedButWithinSuccessPercentage(ITestResult iTestResult) { } public void onStart(ITestContext iTestContext) { } public void onFinish(ITestContext iTestContext) { } } 123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657 package Listener;import com.aventstack.extentreports.Status;import com.aventstack.extentreports.markuputils.ExtentColor;import com.aventstack.extentreports.markuputils.MarkupHelper;import org.testng.ITestContext;import org.testng.ITestListener;import org.testng.ITestResult;import sun.misc.BASE64Decoder;import testCases.BaseTest;import java.io.IOException;import static testCases.BaseTest.CaptureScreenshot;public class MyListener implements ITestListener { public void onStart(ITestResult iTestResult) { } public void onSuccess(ITestResult iTestResult) { BaseTest.test.log(Status.PASS,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ PASS",ExtentColor.GREEN)); } public void onTestFailure(ITestResult iTestResult) { BaseTest.test.log(Status.FAIL,iTestResult.getThrowable().getMessage()); BaseTest.test.log(Status.FAIL,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ FAIL",ExtentColor.RED)); try { BaseTest.test.addScreenCaptureFromPath(CaptureScreenshot(BaseTest.driver)); BaseTest.test.addScreenCastFromPath(CaptureScreenshot(BaseTest.driver)); } catch (IOException e) { e.printStackTrace(); } } public void onTestSkipped(ITestResult iTestResult) { BaseTest.test.log(Status.SKIP,MarkupHelper.createLabel(iTestResult.getName(),toUpperCase("+ SKIPPED",ExtentColor.PURPLE)); } public void onTestFailedButWithinSuccessPercentage(ITestResult iTestResult) { } public void onStart(ITestContext iTestContext) { } } Code Walkthrough Create a class and implement the ITestListener. Generate all the implemented methods in it. OnTestSuccess() Once the test execution is complete and the test has been passed, this method will be invoked. We shall add the log included in the Extent Report to mark the test case as passed within this method. MarkHelper is a class that is used for customizing the Extent Reports in Selenium by creating labels for the tests and adding colors to the test status by using ExtentColor enum. Here, the tests which are passed will be updated with a label - testname with "PASS". Also, the status of the status will be marked with green color as we have provided ExtentColor.GREEN. OnTestFailure() Once the test execution is complete and the test has failed, this method will be invoked. We shall add the log to be included in the Extent Report to mark the test case as failed within this method. Also, we add code to capture screenshots whenever the test fails. So when a test fails, logs will be captured with the exceptions and attached to the Extent Report in Selenium. The addScreenCaptureFromPath() is a method in ExtentTest class that attaches the captured screenshot in the Extent Report. It takes the image path where the screenshot has been captured as the parameter and attaches the screenshot to the Extent Report in Selenium. We can invoke the CaptureScreenshot() method which we have implemented in the BaseTest class. Using getScreenshotAs() method we shall capture the screenshot and save it in the path. This path will be returned to addScreenCaptureFromPath(), which will attach the screenshot in the Extent Report. Upon test execution for the failed tests, you would see the screenshot attached to the respective tests. Clicking on it will show an enlarged view of the screenshot. This will help in analyzing the test failure. TestNG.xml In the TestNG.xml file, we shall add our classes and also the listener class.

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