SoftAssert :-

All methods are non-static in nature

Next steps would be executed even if the line containing soft assertion gets failed.

AssertAll() extra lines of code are required to track the fail status.

To verify non mandatory fields we go for soft assert

Advantages of Assertion:

⇨ It’s used to fail the TESTNG test scripts

⇨ It’s used for test scripts validation

⇨ It’s generate “AssertErrorException” & reason of the failure + failed line number whenever test is failed

⇨ We can compare any 2 primitive variable or array or Collection or MAP in single line

Listener

⇨ Listen is feature available in TESTNG , which is used to capture runtime events during execution & perform appropriate action based on eventtype

ITestListener:

⇨ This is a special feature in testNG which enables the user to take run time events whenever the test scripts fail/pass. Implementation class for ITestListener is mandatory to use Listener feature

⇨ @Listener is testing annotation , which is used to monitor the test execution in the runtime & generate a runtime event to Listener Implementation class , if test is pass / fail

⇨ @Listener annotation will be declared in every testScripts class before class definition block

⇨ ListImplemenation class helps us to receive the failure events from the @Listener & perform appropriate actions

Advantages of Listener :

⇨ We can use Listener to take a screenshot for the failed test case, when we execute in bulk

⇨ We can also use Listener for connect to DB , Launch browser & login precondition program

⇨ We can also use Listener for Extend Report Configuration

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Listener Implementation class :

public class ListnersImplementation extends BaseClass implements ITestListener{

public void onTestFailure(ITestResult result) {

String FailedMethod=result.getMethod().getMethodName().toString();

TakesScreenshot ts=(TakesScreenshot)driver;

File tempFile=ts.getScreenshotAs(OutputType.FILE);

String timestamp=LocalDateTime.now().toString().replace(':', '-');

String Name=FailedMethod+timestamp;

File parmentFile=new File("./src/test/resources/Screenshots/"+Name+".png");

try {

FileHandler.copy(tempFile, parmentFile);

} catch (IOException e) {

}

}

}