

Session 4.12

Extent Reports

AN INITIATIVE BY



Introduction





Let's go!!!



Extent Reports

- ExtentReports is an open-source reporting library for test automation which can be easily integrated with all test-frameworks such as TestNG, JUnit, NUnit etc.
- These reports are high rich HTML reports. It provides results in the form of PIE charts.
- Using Extent Reports we could generate custom logs, add snapshots. We could use external XML file to provide extra information.

We can provide below information to the report using XML file:

- 1. Report Title
- 2. Report Name
- 3. Report Headline
- 4. Environment Information
- Host Name
- 6. User Name
- 7. Date Format
- 8. Time Format



Advantages of Extent Reports:

- Responsive and aesthetically pleasing User Interface
- It provides dashboard for the entire test run
- Generates reports in teh form of PIE Chart
- Allows us to append the new report with the existing report or to replace the existing report with the new report
- Able to change the display order of the tests (i.e., Old test at the top and Newest at the end or viceversa)
- Can be integrated step-wise log information in the report
- Feasability to include screenshots in the report
- Can add information like Host Name, OS Details, Author Name, Environment Information related to the test suite execution etc.,
- Can be customized heavily using an external config file such as Report Name,
- It supports testing frameworks like TestNG, JUnit, NUnit etc.,



Extent Reports

Generating Extent Reports:

1. Pre-requisites to Generate Extent Reports:

Java should be installed – <u>Install and setup Java</u>
TestNG should be installed – <u>Install TestNG</u>
Extent Report Jars (Version 2.41.2) – <u>Download</u>
extent-config.xml – It allows to configure HTML Report

2. Steps To Generate Extent Reports:

Firstly, create a TestNG project in eclipse

Now download extent library files from the following

link: http://extentreports.relevantcodes.com/

Add the downloaded library files to your project

Create a java class say 'ExtentReportsClass' and add the following code to it



Extent Reports Class & Extent Test Class

Extent Reports Class:

- **Extent Reports:** By using this class we set the path where our reports need to generate.
- Extent Test: By using this class we could generate the logs in the report.

Methods:

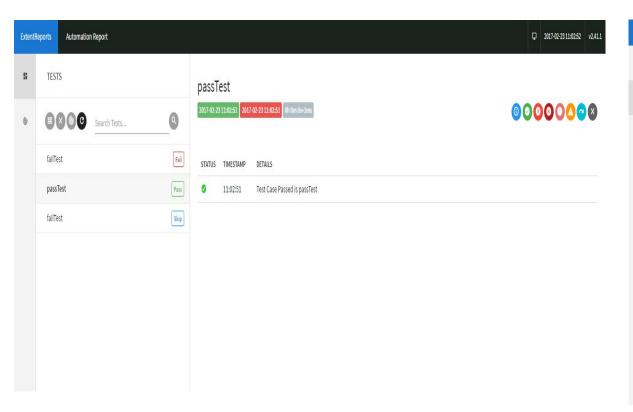
- StartTest with @BeforeTest annotation
- endReport with @AfterMethod annotation

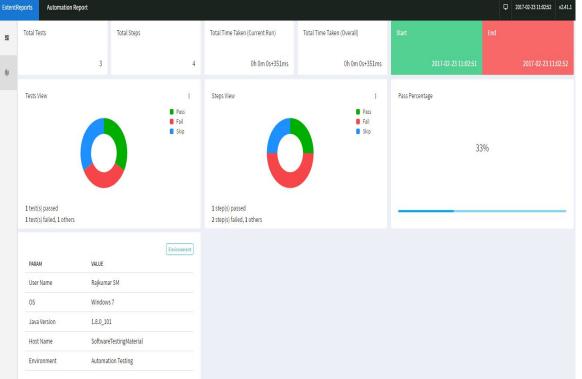
Extent-config.xml:

- By using this external XML file (extent-config.xml), we could change the details such as Report Theme (either standard or dark), Report Title, Document Title etc.,
- We use extent object and use loadConfig() method to load this XML file.



- Refresh the project after execution of above ExtentReportsClass.java file. You could find an HTML file named "STMExtentReport.html" in your test-output folder.
- Copy the location of the STMExtentReport.html file and open it by using any browser.
- Once you open the report, you will see HTML test results as shown below.





Session Recap



