ExtentReports is an open-source reporting library for test automation. It is very easily integrated with all test-frameworks (TestNG, JUnit, NUnit etc.) and provides better looking reports. Because Extent is created as a logging utility, it is also possible to use custom logs for each test, add snapshots & videos, assign categories and authors and filter using several parameters. Below are a few quick features of Extent:

* Very simple to use API
* Beautiful and responsive UI
* Provides dashboard for the entire run
* Parallel execution of classes and methods supported
* Creates a single report file, so less management of artifacts required (Online only\*, Offline report stores all artifacts locally)
* Separate section for categories, provides analysis of tests by category
* Easily integrate test-runner logs
* Can be customized heavily using an external config file
* .. and many more!

How to work with Extent reports

1. Starting custom repots

To start a report, a new instance of ExtentReports must be created

*ExtentReports extent1=****new*** *ExtentReports(file path,* ***replaceExisting****);*

To append to a report you had previously created, simply mark replaceExisting = false and new tests will be appended to the same report.

1. starting and ending tests

To start tests, a new instance of ExtentTest must be created.

*ExtentTest test = extent1.startTest("My First Test", "Sample description");*

To end, simply call endTest(testInstance).

*extent1.endTest(test);*

1. Creating information logs

To create information logs use LogStatus Class as follows

*test.log(LogStatus.****INFO****, "info details");*

1. Creating status logs

To create output status logs use LogStatus class as follows

*test.log(LogStatus.****FAIL****, "fail test details");*

1. Insert screenshots

*test.log(LogStatus.****INFO****, "Screencast below: " + test.addScreencast("screencast-path"));*

1. Writing to reports

Once your session is complete and you are ready to write all logs to the report, simply call the flush() method.

*extent1*.flush();