**How to Generate Extent Reports in Selenium WebDriver:**

Selenium provides inbuilt reports using frameworks such as JUnit and TestNG.

Although the built-in reports provide information on the steps that are executed as part of the test case, they need more customization to be shared with all the major project stakeholders.

Extent Reports is a customizable HTML report developed by Anshoo Arora which can be integrated into Selenium WebDriver using JUnit and TestNG frameworks.

Extent Reports offer several advantages when compared to the built-in reports that are generated through JUnit and TestNG such as pie chart representation, test stepwise report generation, adding screenshots etc., at every test step and a presentable user interface that can be shared with all stakeholders of the project.

Advantages of using Extent Reports

There are several advantages of Extent Reports and few of them are discussed below.

* Customisable HTML report with stepwise and pie chart representation.
* Displays the time taken for test case execution within the report.
* Each test step can be associated with a screenshot.
* Multiple test case runs within a single suite can be tracked easily.
* Can be easily integrated with TestNG and JUnit frameworks.

Using Extent Reports in Selenium Webdriver

Extent Reports contain two major classes that are used frequently.

* ExtentReports class
* ExtentTest class

**Syntax:**

ExtentReports reports = new ExtentReports(“Path of directory to store the resultant HTML file”, true/false);

ExtentTest test = reports.startTest(“TestName”);

Extent Reports class is used to generate an HTML report on the user-specified path. The Boolean flag indicates if the existing report needs to be overwritten or a new report needs to be created. Value ‘true’ is the default value, which means all the existing data will be overwritten.

Extent Test class is used to log test steps onto the generated HTML report.

**The above classes can be used with the frequently used built-in methods that are stated below.**

* startTest
* endTest
* Log
* flush

startTest and endTest methods are used to execute preconditions and post-conditions of a test case, while log method is used to log the status of each test step onto the resultant HTML report. Flush method is used to erase any previous data on the report and create a new report.

**Test Status can be any of the following values:**

* PASS
* FAIL
* SKIP
* INFO

**Syntax:**

reports.endTest();  
test.log(LogStatus.PASS,”Test Passed”);  
test.log(LogStatus.FAIL,”Test Failed”);  
test.log(LogStatus.SKIP,”Test Skipped”);  
test.log(LogStatus.INFO,”Test Info”);

Log method takes in two parameters, the first parameter is the test status and the second parameter is the message to be printed onto the resultant report.