

# Extent Reports Configuration Guide

TestNG + Selenium – Step-by-Step Framework Setup

## **1. Introduction**

Extent Reports is a popular HTML reporting library used with Selenium and TestNG. It provides detailed execution reports with graphs, screenshots, and logs.

## **2. Required Dependencies**

- 1 Extent Reports (com.aventstack:extentreports)
- 2 TestNG
- 3 Apache Commons IO (for screenshot handling)

## **3. ExtentManager Configuration**

ExtentManager is a singleton class responsible for configuring ExtentSparkReporter and attaching it to ExtentReports instance.

## **4. Screenshot on Failure**

Screenshots are captured using Selenium TakesScreenshot and attached to Extent Report inside TestNG Listener on test failure.

## **5. TestNG Listener Integration**

ITestListener interface is used to hook Extent Reports with TestNG execution lifecycle.

## **6. Graph Issues & Fixes**

- 1 extent.flush() not called
- 2 Using deprecated HtmlReporter
- 3 Tests not logging PASS/FAIL status
- 4 Browser cache issues

## **7. Best Practices**

- 1 Use ExtentSparkReporter
- 2 Use ThreadLocal for parallel execution
- 3 Always use unique screenshot names
- 4 Flush report only once
- 5 Keep report files outside target folder