

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