QA Automation Test Reporting

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Why Automation Test Reporting?

- **Clear visibility:** into test execution and provides stakeholders with a comprehensive view of test coverage.

- **Efficiency in Debugging:** These tools offer detailed reports, including logs, screenshots, and error traces, making it easier to diagnose and fix issues, thereby reducing the time spent on debugging.

TestNG Report Listener Class

- org.testng.reporters.TestHTMLReporter
- org.testng.reporters.EmailableReporter2
- org.testng.reporters.FailedReporter

Extent Report

Official Website: Extent Report

Add the following dependency to your `pom.xml` file:

```xml
<dependency>
  <groupId>com.aventstack</groupId>
  <artifactId>extentreports</artifactId>
  <version>5.1.2</version>
</dependency>
```

Extent Report Usage

```
1   ExtentReports extent = new ExtentReports();
2
3   ExtentSparkReporter spark = new ExtentSparkReporter("target/Spark.html");
4   ExtentEmailReporter email = new ExtentEmailReporter("Email.html");
5
6   extent.attachReporter(spark);
7
8   ExtentTest extentTest = extent.createTest("MyFirstTest");
9   extentTest.log(Status.PASS, "This is a logging event for MyFirstTest, and it passed!");
10
11  extent.flush();
```

Extent Report with Screenshot

```
1    ExtentTest extentTest = extent.createTest("MyFirstTest");
2    extentTest.log(Status.PASS, "This is a logging event for MyFirstTest, and it passed!");
3
4    TakesScreenshot screenshot = (TakesScreenshot) driver;
5    File source = screenshot.getScreenshotAs(OutputType.FILE);
6    File dest = new File("./Screenshots/screenshot.png");
7    FileUtils.copyFile(source, dest);
8    extentTest.addScreenCaptureFromPath(dest.getAbsolutePath());
9
10   // adding screenshots to log
11   extentTest.log(Status.INFO, "Screenshot", MediaEntityBuilder.createScreenCaptureFromPath(dest.getAbsolutePath()).build());
```

Thank you ❤️

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