Problem Statement 4: Extent Reports Integration

Building upon the Automated Testing Framework, this enhancement focuses on integrating Extent Reports to provide detailed and visually appealing test reports. The reports include environment-related details such as the operating system, Java version, host name, and browser information.

Implementation Details:

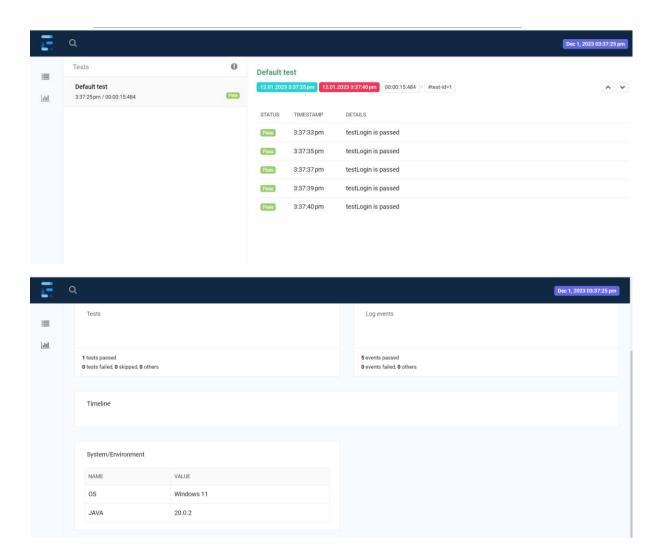
- The MyTestListener lass now includes implementations for 'onStart' and 'onFinish' methods of the 'ITestListener' interface.
- In the 'onStart' method, an ExtentReports instance is created, and environment-related details are logged.
- The 'onFinish' method flushes the reports and closes the ExtentReports instance.

Usage:

- Integrate 'MyTestListener' into the TestNG test suite to enable the generation of Extent Reports at the end of the test execution.

Environment Details:

- OS: Operating System information retrieved from 'System.getProperty("os.name")'.
- Java Version: Java version information retrieved from `System.getProperty("java.version")`.
- Host Name: Host name information retrieved using `InetAddress.getLocalHost().getHostName()`.
- Browser: Chrome (static information for this example).
- Operating System: Windows 10 (static information for this example).



```
package Base;
import java.awt.Desktop;
 public class BaseTest [
   public static WebDriver driver;
   public static ExtentReports extentreports;
   public static ExtentTest extentTest:
  @BeforeTest
   public void getnameMethod(ITestContext context) [
     extentTest = extentreports.createTest(context.getName());
  @BeforeSuite
   public void InitalizeExtentReport() (
     ExtentSparkReporter sparkreporter - new ExtentSparkReporter("Report.html");
     extentreports - new ExtentReports();
     extentreports.attachReporter(sparkreporter);
     extentreports.setSystemInfo("OS", System.getProperty("os.name"));
     extentreports.setSystemInfo("JAVA", System.getProperty("java.version"));
  @BeforeClass(alwaysRun - true)
   public void setUp() {
     WebDriverManager.chromedriver().setup();
     driver - new ChromeDriver();
     driver.manage().window().maximize();
     driver.manage().deleteAllCookies();
  @AfterClass(alwaysRun = true)
   public void tearDown() [
     if (driver !- null) [
       driver.quit();
     1
   1
  #AfterSuite
   public void generateReports() throws Exception (
     extentreports.flush();
     Desktop.getDesktop().browse(new File("Report.html").toURI());
  @AfterMethod
   public void generateTestStatus(Method m, ITestResult result) throws IOException {
     if (result.qetStatus() -- ITestResult.FAILURE) (
       extentTest.fail(result.getThrowable());
     } else if (result.getStatus() -- ITestResult.SUCCESS) {
       extentTest.pass(m.getName() + " is passed");
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```