Automation Project File Structure

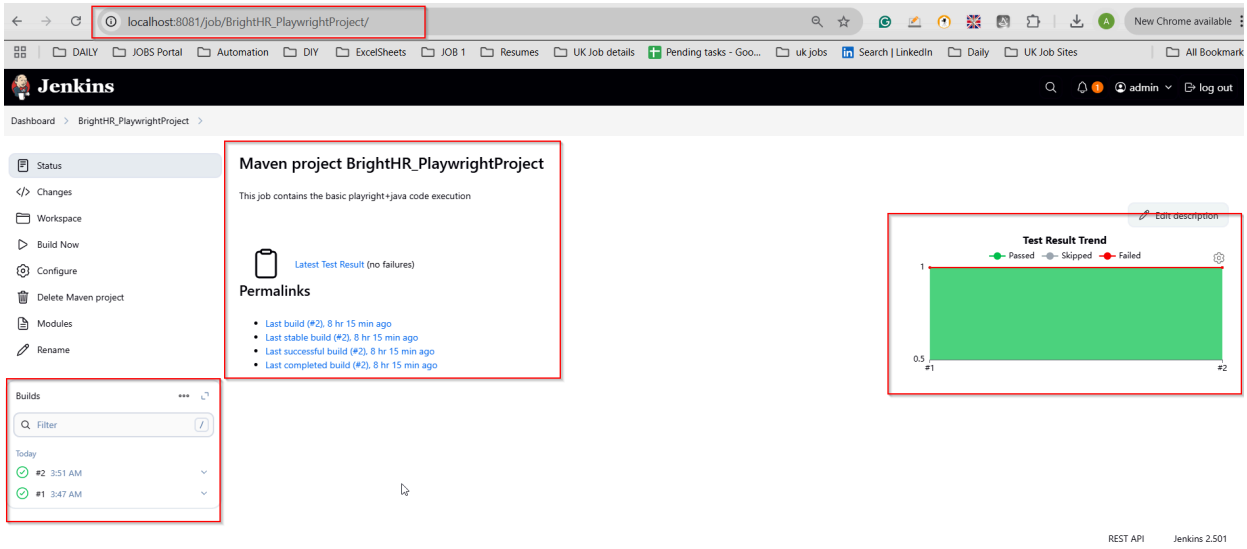
Git repository :
https://github.com/ArtiLohar/BrightHRProject1

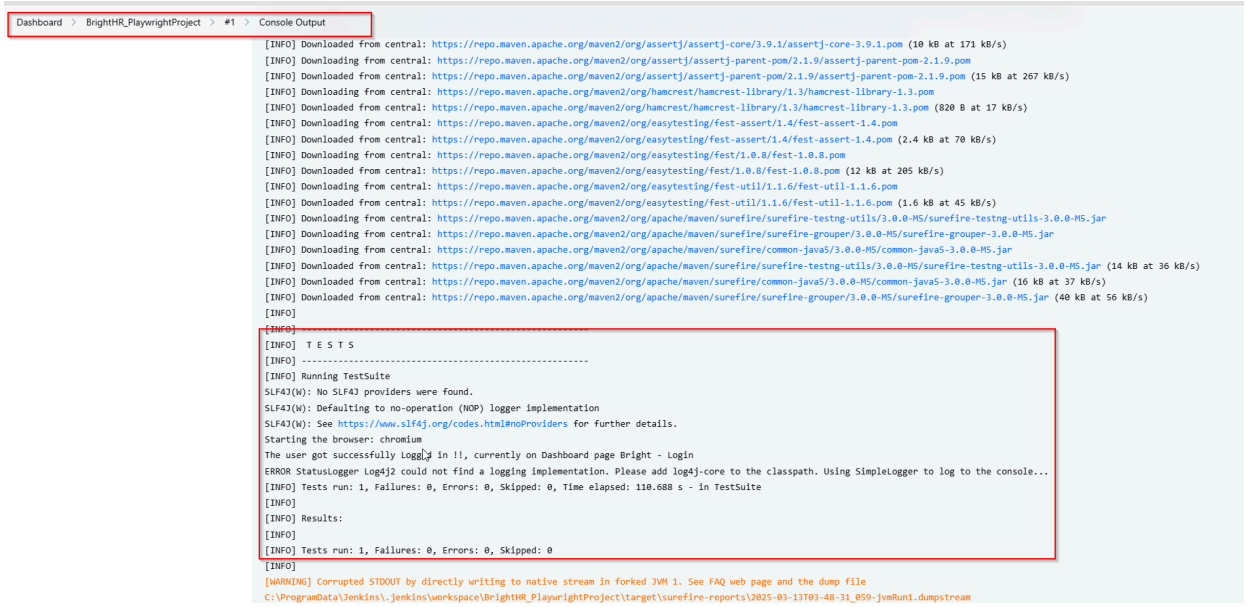
Source code	src/main/java	Holds all the important utilities for test cases
@BeforTest & @AfterTest	src/test/java/base	Contains init and tear down methods
Test Files	src/test/java/tests	Contains all the test methods
Config files	src/test/resources/config/config.properties	Contains all the main details like URL, username, password, headless
Test Data -ExcelSheets	src/test/resources/ExcelSheets	Contains all the test data to add new employee
playwrightFactory	src/main/java/factory/playWrightFactory.java	Contains common methods like : initBrowser, multi browser setup, readPropertyFiles, readExcelfiles, takeScreenshotMethod
Listener class	src/main/java/Listeners/ExtentReportListener.java	Contains all the essential methods to take action as per the test results Like Screenshot capture, report generation, etc.
Pages classes	src/main/java/Pages	Contains all the page classes of POM implementation I have added 5 pages as per the requirements : AddMultipleEmployeesPage.java DashboardPage.java EmployeeHubPage.java HomePage.java LoginPage.java
Contents	src/main/java/constants	Contains all the details with the keyword final so that no one should be able to change it
Build folder	TestExecutionReport.html	It holds all the details of the recent execution of the testng.xml suite.
Screenshot folder		It contains all the screenshots of the latest execution, which later gets added to the extent report
pom.xml		Holds all the dependencies needed for the project

		Theonese which i used are : Playwright for Automation testNg for unit testing Apache POI foExcelel reading Avent STack for report surefirePlugin for test suite execution through pom.xml

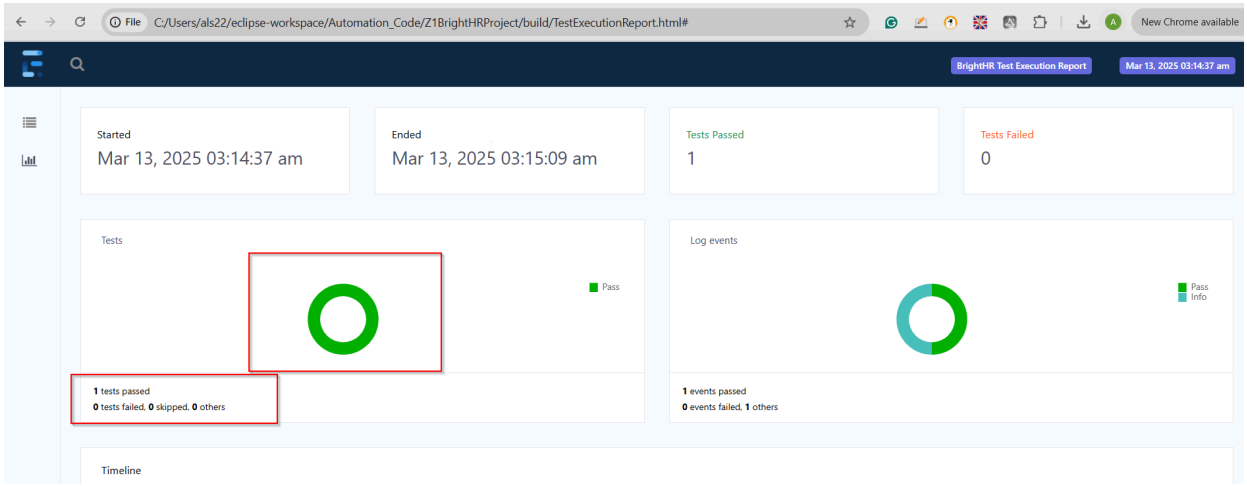
```
├── src
│   ├── main
│   │   ├── java
│   │   │   ├── com
│   │   │   │   ├── qa.brightHr
│   │   │   │   │   ├── constants         # Page Object Model classes
│   │   │   │   │   ├── factory          # Playwright factory
│   │   │   │   │   ├── listeners        # Factory classes (e.g., Browser factory)
│   │   │   │   │   └── pages       # Page Cases
│   ├── test
│   │   ├── java
│   │   │   ├── com
│   │   │   │   ├── qa.brightHr
│   │   │   │   │   ├── base          # Test classes (TestNG scripts)
│   │   │   │   │   ├── tests       # Listener classes for reporting
│   │   │   │   │
│   │   ├── resources
│   │   │   ├── config
│   │   │   │   └── config.properties    # Configuration file
│   │   │   ├── ExcelSheets
│   │   │   │   └── testdata.xlsx       # Test data
│   │   │   └── testng.xml             # TestNG suite XML file
├── target
│   ├── reports                     # Test execution reports
│   ├── logs                        # Logs generated during execution
│   └── screenshots                    # Screenshots from failed tests
└── pom.xml                         # Maven configuration
|___build #daily reports
|___screenshot# contains all reports
```

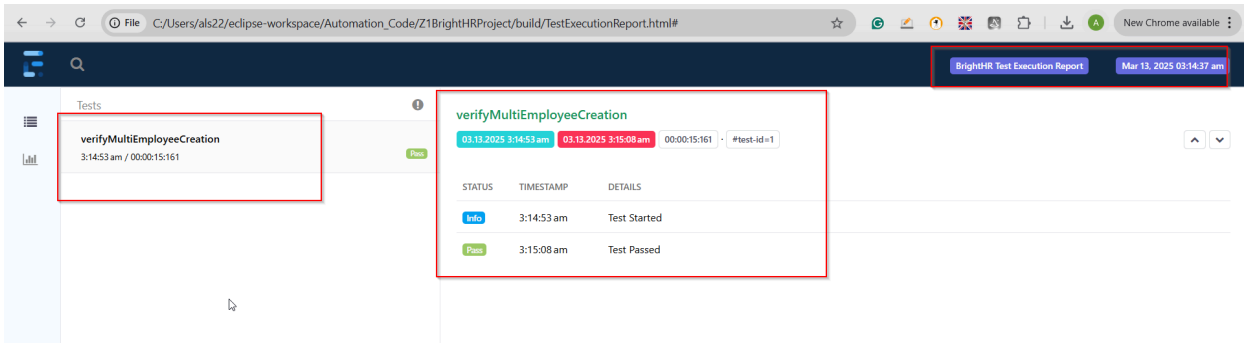
Jenkins execution results



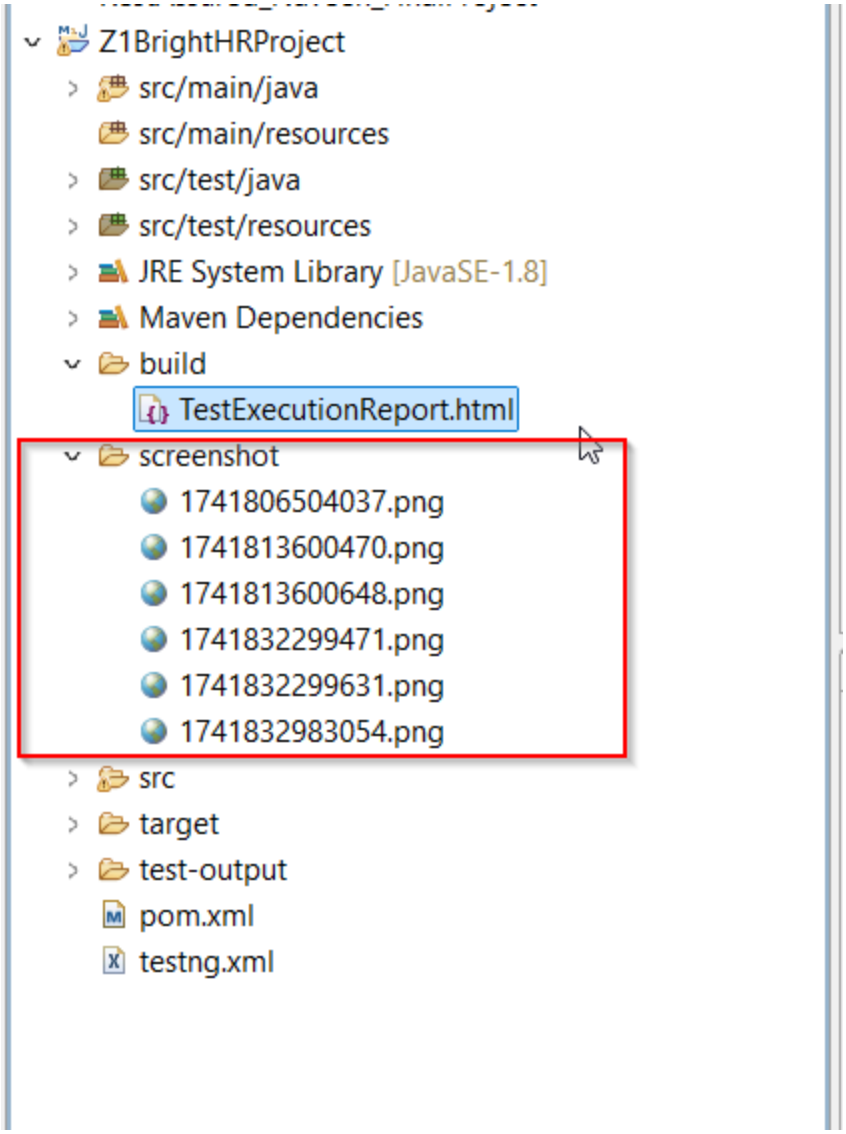


Extent report :

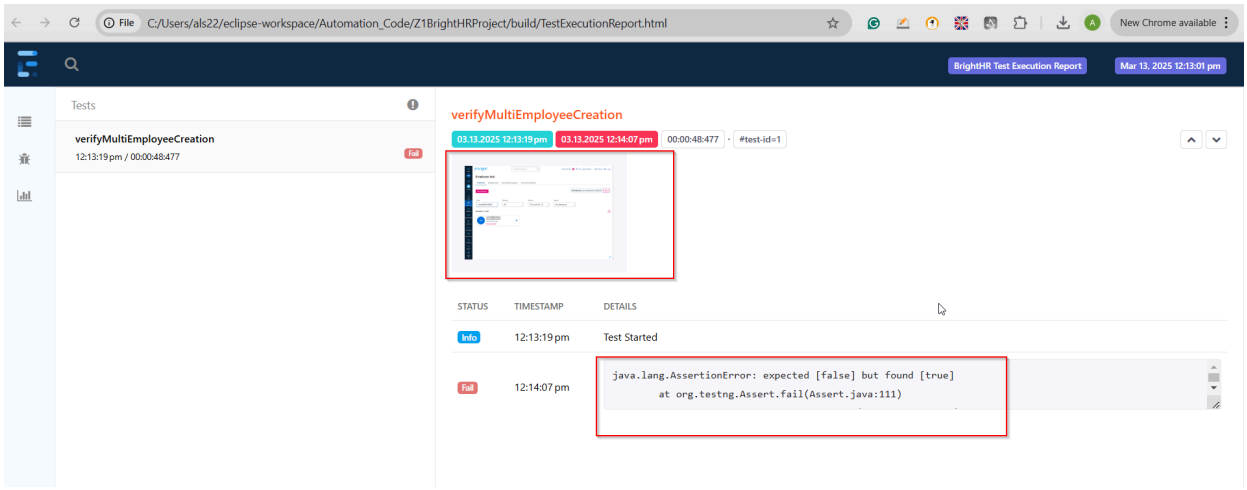




Screenshot captured :



Test Failure, Screenshot addition :


File C:/Users/als22/eclipse-workspace/Automation_Code/Z1BrightHRProject/build/TestExecutionReport.html
New Chrome available
BrightHR Test Execution Report
Mar 13, 2025 12:13:01 pm
Tests
verifyMultiEmployeeCreation
12:13:19 pm / 00:00:48:477
Fail
verifyMultiEmployeeCreation
03.13.2025 12:13:19 pm
03.13.2025 12:14:07 pm
00:00:48:477
#test-id=1
STATUS
TIMESTAMP
DETAILS
Info
12:13:19 pm
Test Started
Fail
12:14:07 pm
java.lang.AssertionError: expected [false] but found [true]
at org.testng.Assert.fail(Assert.java:111)