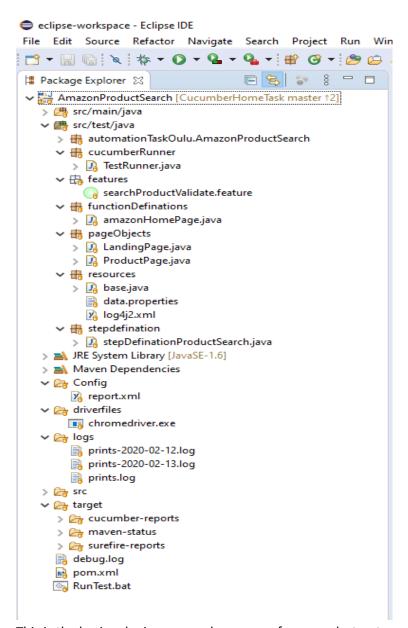


RUN BOOK

Pre-Requisite Setup to run framework and cucumber features

- Maven-Set Environment variable
- Java JDK-Set Environment variable
- Eclipse IDE
- Git
- Setup Cucumber Framework and adding data. Properties values as per needed
- Clone the project in C: Drive
- Open CMD and navigate to project and run maven Test or Run Batch file-RunTest.bat

Selenium-Cucumber Maven Framework Structure



This is the basis selenium-cucumber maven framework structure contains various packages.



Some highlights on framework

- This framework contains 2 different approaches which can be executed as a simple selenium j-unit test and another approach is through cucumber by defining feature files and stepdefination using j-unit or testing and this test is Test Runner and we can configured as per the user or project requirement.
- POM.XML is heart of this framework which has all the dependencies added prior to defining framework structure
- Framework has excellent cucumber html report and added logs to get in detail information about test.
- It contain base file for driver initialize which is parents class which can be inherited into different java files. For more info please go through the code.
- It also contains data. Properties file which has browser, url, searchkeywords is used to avoid hard code. These values can be put in any source files. Ex-Excel, XML, CSV, config.ini, database...etc.
- Framework contain separate page Objects package so that it will be easy to maintain the web page object for bigger test.
- I have added Function headers and many comments in the code so that reviewer can read the code.
- No hard coded wait added in the framework as this is very small test and for bigger test we can create another package and define wait (Explicit or Implicit) for the objects to get loaded in webpages.
- Used Log4j2.xml to generate log and configure it in POM.XML. Log4j2 is heart of loggerManager.getLogger of base class.
- Feature file added as below.

- As given in feature file which is defined as SearchproductValidate.
- In this Scenario we can either hard code the values or can be parameterized as per the project requirement as given the code. Kept both option to make review understand.
- And last Feature header is very important to defined to make understand other test or coders



Execute test

- Pull the code from Github https://github.com/TechNileshPatil/CucumberHomeTask
 and save it on Local *C: Drive*
- Now you have 2 option either you can open through eclipse IDE by import existing maven project or double click on RunTest.bat which will run the test.
- If there are some failure or configuration issue, request you to look the error. As this framework is developed in another computer and there might be chance for some configuration issue. I am pretty sure you will not get any error and test will run successfully.
- Now this is must important point because is have configured my final test in j-unit and not using Testng. You will get error while running RunTest.bat that Testng is not configured, this is because I have set 2 different options to run the test as given above and my test will run in j-unit so please ignore it and test will run in 1 sec.
- Below are the test run screens through command prompt (cmd).

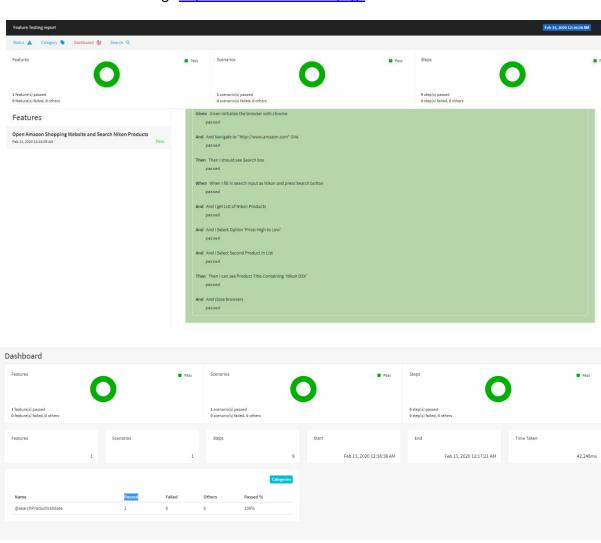
```
Command Prompt
```



```
INFO] Compiling 7 source files to C:\CucumberHomeTask\target\test-classes
INFO]
INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ AmazonProductSearch ---
INFO]
INFO] --- maven-surefire-plugin:2.22.1:test (default-te
```

Test Result- Cucumber HTML and Logs

- After the test execution you can get this result from <u>C:\CucumberHomeTask\target\cucumber-reports\report.html</u>
- And for logs <u>C:\CucumberHomeTask\logs</u>





Post Execution Test

- Validate the reports and logs if any defect found and report it to defect management tool and send this reports to repository to accessible to team or project
- Also we can implement hook to send an email the test results to the test manager after execution. It mostly depends on project and team.
- And last for CI/CD we can create a job in Jenkins to trigger this test automatically the whenever new release is planned.

Test Data for Test cases execution

- In most of the organization and the project this is very important to have correct test data for execution and to test the functionality or business critical flow. And we can create separate team as TDM to perform this task which generates test data as per the scenario or data profiles based on bcfs or functionality.
- Test data should be consistence, coherent and compliant as per the EU GDPR rule.