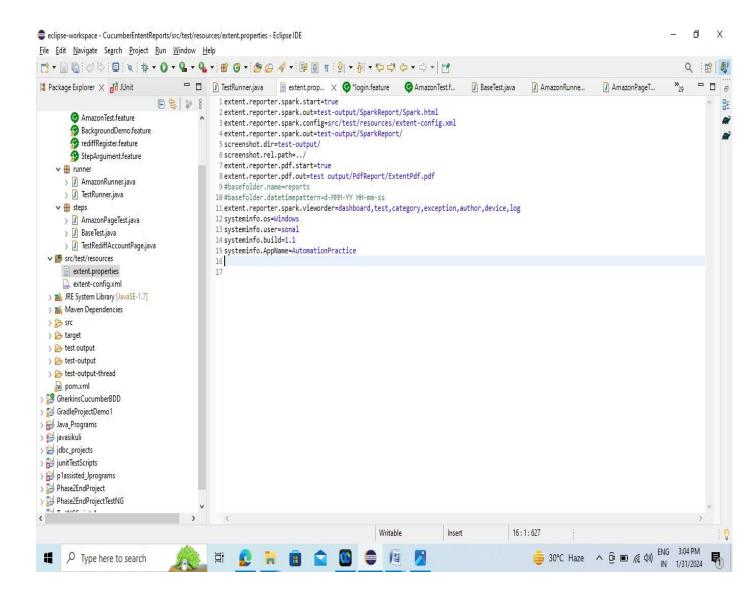
PHASE_2 EMP ID: 2587325

NAME: HIRANMAI

ASSISTED PRACTICE PROJECTS

1. Cucumber Setup: Maven, Extent Reports, Cucumber and Eclipse Plugin



2. Gherkin Keywords

The following are the keywords used in Gherkin:

• **Feature**: This gives information on the high-level business functionality and the purpose of application under test. Everybody should be able to understand the intent of feature file by reading the first feature step.

Feature: Login Action Test

Description: This feature will test a LogIn and LogOut functionality

• **Scenario**: Basically, a scenario represents a particular functionality which is under test. By seeing the scenario, user should be able to understand the intent behind the scenario and test.

Scenario: Successful Login with Valid Credentials

Given User is on Home Page

When User Navigate to Login Page

And User enters Username and Password

Then Message displayed Login Successfully

3. Gherkin: Given, When, Then, and Background Steps

Each scenario should follow given, when, and then format.

- Given: n Specifies the preconditions. It is basically a known state.
- When: This is used when some action is to be performed. Then: The expected outcome or result should be placed here. For Instance, verify if the login and page navigation is successful.
- Background: Whenever any step is required to be performed in each scenario, then those steps are to be placed in the Background. For Instance, If user needs to clear the database before each scenario, then those steps can be put in the background.
- And: Used to combine two or more actions of the same type.
- But: Signifies logical OR condition between any two statements. OR can be used in conjunction with GIVEN, WHEN, and THEN statement.
- This feature will test functionality of adding different products to the User basket from different flow
- Background: User is Logged In
- Scenario: Search a product and add the first result/product to the User basket
- Given User searched for Lenovo Laptop
- When Add the first laptop that appears in the search result to the basket
- Then User basket should display with 1 item
- Feature: Add to Cart

4. Gherkin: Step Arguments

Gherkin step argument

• Gherkin has Docstrings and Data tables.

Docstrings

- If you need to specify information in a scenario that won't fit on a single line, you can use Docstrings.
- A Docstring follows a step. It starts and ends with three double quotes, like this:

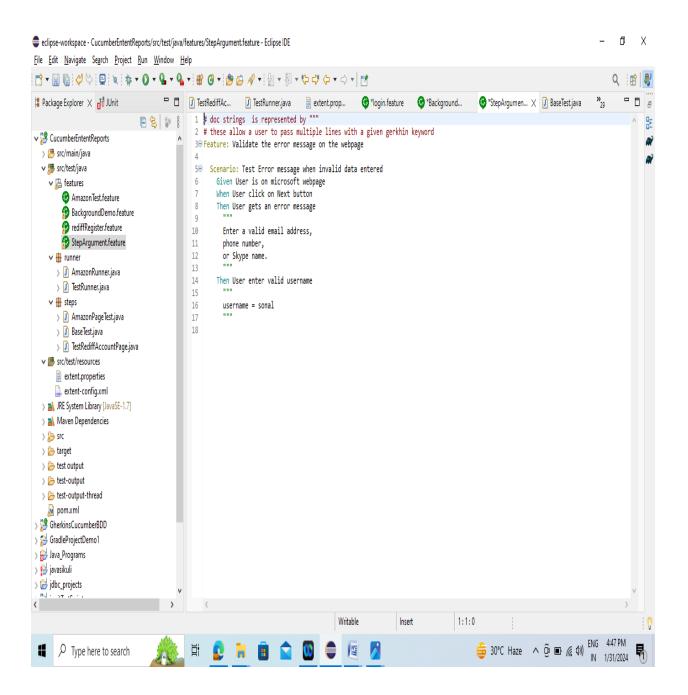
When I ask to reset my password					
Then I should receive an email with:					
ппп					
Dear bozo,					
Please click this link to reset your password					
шш					

Data Tables

• Data Tables are handy for passing a list of values to a step definition

•	name	email	twitter
•	Aslak	aslak@cucumber.io	@aslak_hellesoy
•	Julien	julien@cucumber.io	o @jbpros
•	Matt	matt@cucumber.ic	@mattwynne

• Just like Docstrings, Data Tables will be passed to the step definition as the last argument.



5. Gherkin: Comments and Tags

Gherkin comments

- Comment is basically a piece of code meant for documentation purposes and not for execution.
- Feature file: In case of a feature file, we just need to put # before beginning your comment.

Example:

Feature: annotation

#This is how background can be used to eliminate duplicate steps

Background:

User navigates to Facebook

Given I am on Facebook login page

• Step definition file: If you are using Java as a platform then mark your comments with //.

Example:

```
//scroll to the bottom of the page
```

((JavascriptExecutor) driver).executeScript("window.scrollTo(0, document.body.scrollHeight)");

Gherkin tags

- if we have many scenarios in a feature file, to put them under a single umbrella, we use tags to generate reports for specific scenarios under the same tag.
- Tags are defined in our runner class like this:

```
@RunWith(Cucumber.class)
```

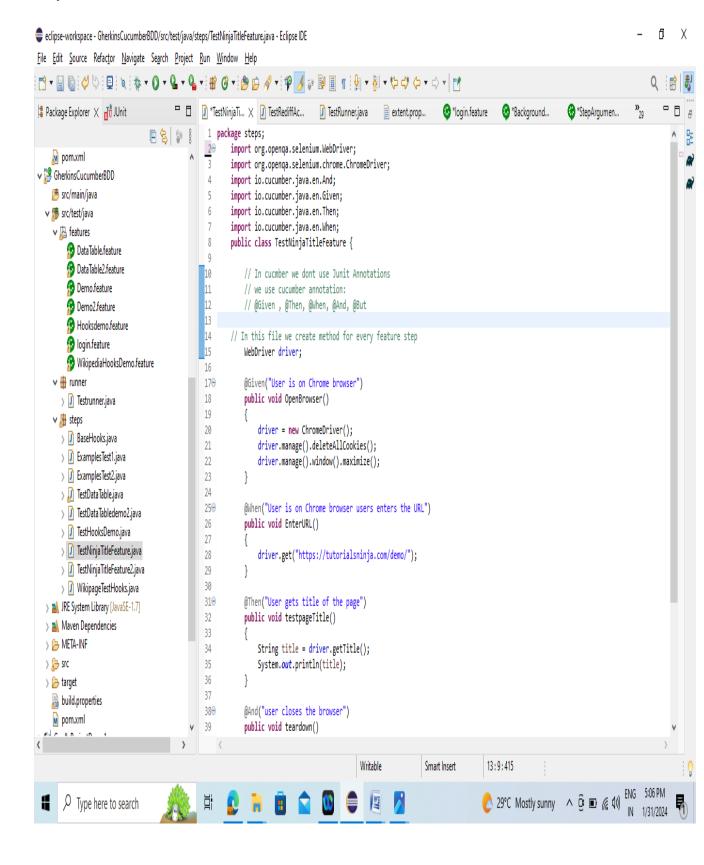
@CucumberOptions{

```
format= {"Pretty" ,"json:target/output.json", "html:targer/html"},
feature={"src/functional-test/resources"},
tags={"@tag", "@tag1"} }
```

- When we define multiple tags in runner class in below form, it will be defined with the use of logical operator:
 - o tags = {"@tag", "@tag1"}: means AND condition. It says that scenarios matching both these tags need to be executed.

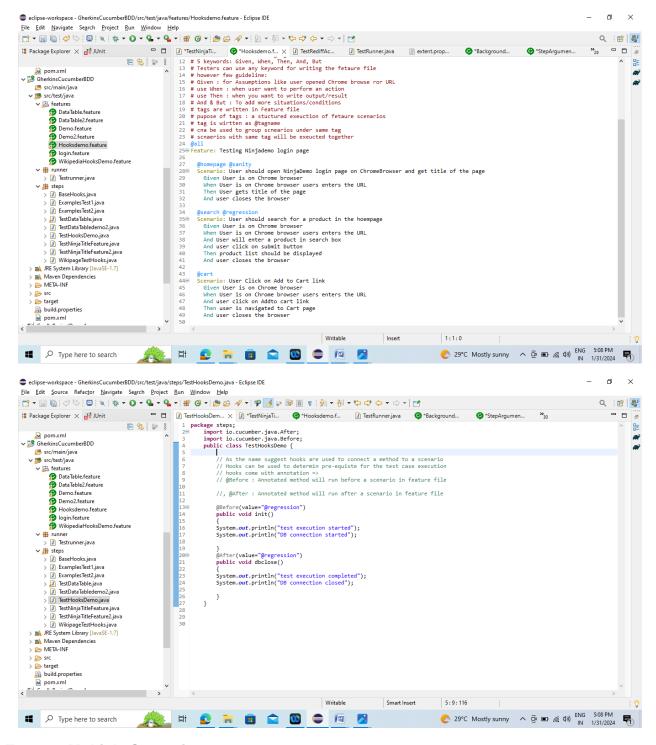
tags = $\{\text{``@tag1', @tag2''}\}$: means OR condition. It says that scenarios matching any of this tag need to be executed

6. Step Definition



7. Hooks

Hooks are blocks of code that run **before** or **after** each scenario. You can define them anywhere in your project or step definition layers using the methods **@Before** and **@After**.



9. Execute Multiple Scenarios.

Multiple scenarios

• Feature file can have more than one scenario or scenario outline. You can write your all possible requirement or scenarios for a particular feature in a feature file.

Feature: Registration, Login and MyAccount

```
Background:
```

Given I am on the homepage And I follow "Sign in"

@regression @smoke

Scenario: Verify Login Functionality
And I fill "email address" with "goswami.tarun77@gmail.com"
And I fill "password" with "Test@1234"
And I click "sign in"
Then I should see "MY ACCOUNT" heading

@regression

Scenario: Create New User

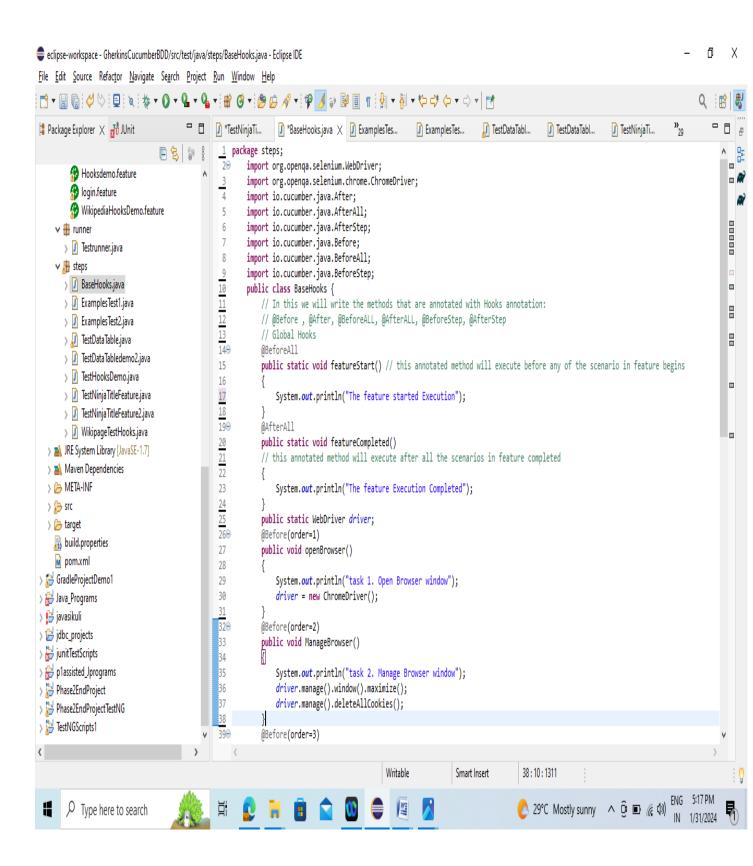
When I fill "registration email text box" with "goswami.tarun77+1@gmail.com"

Then I click "create an account button"

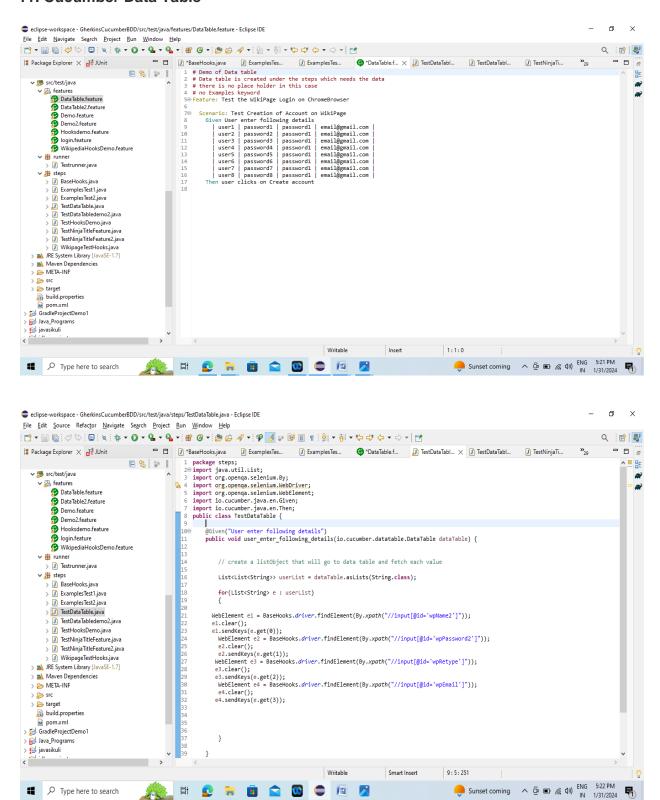
And I enter following details

First Name	Tarun
Last Name	Goswami
Password	Test1234
Date	13
Year	1989
And I click "register button"

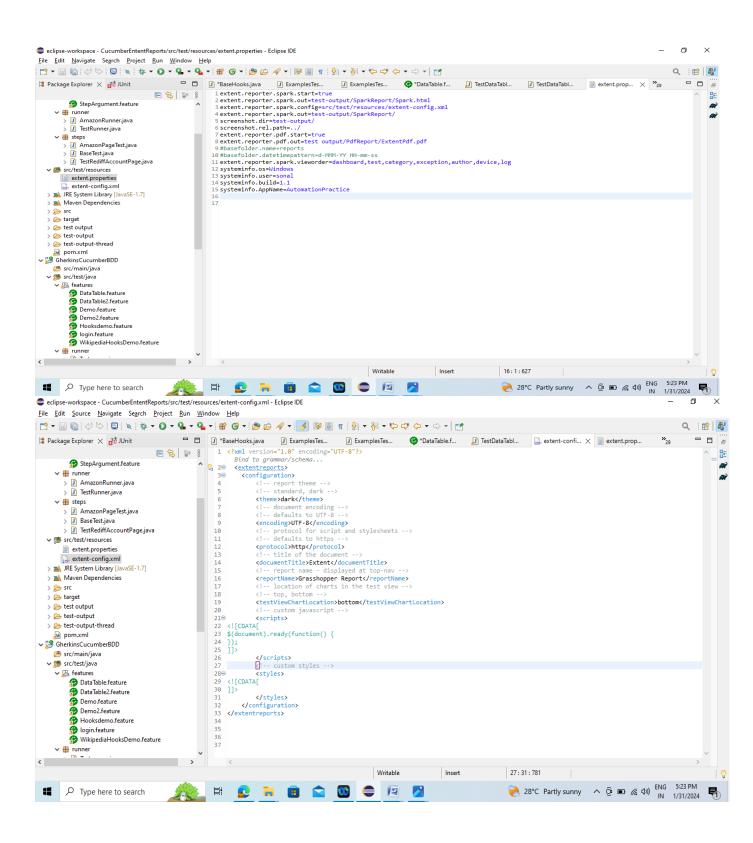
10. Tagged Hooks



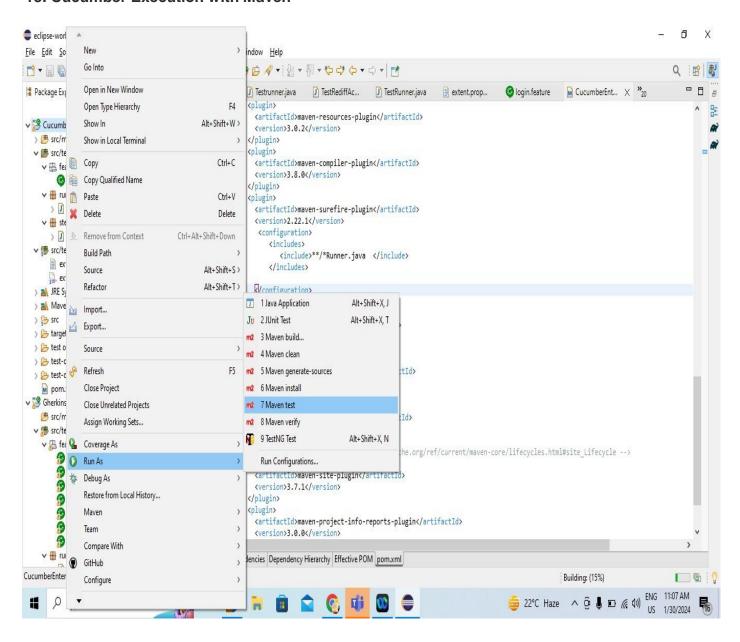
11. Cucumber Data Table



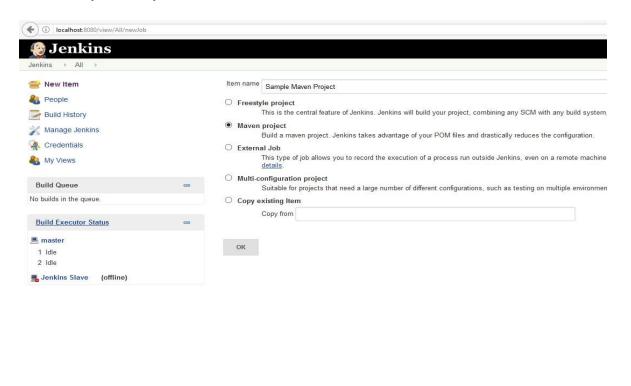
12. Cucumber Integration with Extent Report



`13. Cucumber Execution with Maven



14. Build (Execute) Jenkins Job



15. Jenkins Integration with Extent Report

