BDD Cucumber Framework:

BDD -> Behavior Driven Development Process

BDD is subset of TDD Process, It extends TDD Process, IT is mainly used for Acceptance Testing purpose.

Assume a E-Commerce application for Gadgets has provided a change for update Search Engine in the Home page of the Application:

The Requirement has given to Developer to Design it and they have estimated for 4 hours.

When Developer starts to implement this functionality, there are 'N; numbers of questions have arised for the developer.

1. What is the length of characters the search Engine should accept?

2. if The search has not matched with existing items, what can be the Message, should we need to display?

3. What can be the search order for Items displayed in the search result page?

4. Should I need to add any hyperlink in the Search Result page, to access item quickly?

5. Should we need to export search Results in Excel or Pdf?

6. Should we need to provide pagination in the Search Result Page?

7. If Pagination is required , How many items per page should display?

8. Should we need to provide user to customize the Pagination?

9. should we need to add clear button to clear the search criteria?

Gherkin Language:

It is a simple plain English representation of the requirements [simplest way of representing the requirments in simple English language]

Keywords available in Gherkin Language:

1. Given

2. When

3. Then

4. And

5. But

6. Background

7. Feature

8. Scenario

9. Scenario Outline

1. Given: It represents the precondition

2. When: It represents the action

3. Then : It represents the Post condition

4. And: Multiple steps will be represented using And keyword

5. But: Negative steps can be represented using But Keyword

6. Background: If multiple scenarios requires same pre condition, in this case we can specify the precondition in Background Keyword.

7. Feature: It represents Feature and it must be the only one keyword used per .feature file

8. Scenario : It represents a testcases , a single feature file has 'N' number of scenarios

9. Scenario Outline : It represents Scenario with parametrization

A Sample Feature file Writing/ creating

Feature: Login and Logout functionality

Scenario: Verify the Login functionality

Given I launch the chrome Browser

And I navigate the Application URL

And I find the Login Page

When I enter the Username in UserName text field

And I enter the password in Password Text field

And I click on Login button

Then I find the Home Page of the Application

Scenario: Verify the Logout functionality

Given I find the Home Page

When I click on Logout Link

Then I find the Login Page

And I close the Application

Advantage of BDD:

Even Non-Technical People or People if they do not have coding knowledge, they can also provide their contribution on automation.