**BDD** test are written in plain English language. They are driven by business values. BDD frameworks are Cucumber and JBehave.

**BDD is about implementing an application by describing its behavior from the perspective of its stakeholders.**

**Gherkin** is the language that cucumber understands. It is simple, light weight and structured language. It uses **.feature** as file extension. Most lines in Gherkin starts with a special keyword.

**Cucumber** is a testing framework that supports BDD. It is itself written in **RUBY.** It can test code written in Ruby, Java or any programming language.

A step definition is a small bit of code with a pattern attached to it. The pattern is used to link the step definition to all matching steps in feature file. Step definition must be placed in a file where cucumber can find them.

**Given, When, Then, As, But, \*, Scenario, Scenario Outline, Example, Feature used in feature file.**

**Corresponding code of feature file**

**Step Definition  
  
We used Selenium + Java + Annotations**

**Test Runner  
Written in Junit (To run feature file and generate reports)**

**Feature File**

**Runner contains details of feature file and other cucumber options are specified as below**

**Login.feature**

**Cucumber Options are: - dryRun, Features, Glue, Tags, Monochrome, Strict, Format etc.**

**Jars/Maven Dependencies used in Cucumber are: -** cucumber-junit, cucumber-java, cucumber-core, cucumber-html, cucumber-testng, cucumber-reporting etc.

**Cucumber Using POM:** -

**Feature File, Step Definition, Runner Class are all related to each other as shown in above diagram**

**Base Class**

dfadsf

**Will call all the java classes in Step Definition file**

**Runner Class**

**Step Definition**

**Feature File**

**All classes extendBASE Class**

**SupporPage.java**

**SearchPage.java**

**HomePage.java**

**LoginPage.java**

**Base Class (Webdriver initialization, load properties file etc.)**