

BDD

Lesson 02 : Gherkin Language Basics



Lesson Objectives

To understand the following topics:

- Introduction to Gherkin Language
- Generating Behavior test cases
- Running test cases
- Creating tags
- Categorizing tests based on tags





Introduction to Gherkin Language

- Gherkin is a language, that is used to write **Features, Background, Scenarios, and Steps**.
- Gherkin helps us to write concrete requirements.
- Gherkin files are plain text Files and have the extension .feature.
- Gherkin syntax is simple and readable
- Each line that is not blank has to start with a Gherkin keyword, followed by any text you like.
- Gherkin is based on [TreeTop Grammar](#) which exists in 37+ languages thus you can write your gherkin in 37+ spoken languages.



Gherkin Syntax

- Gherkin is a line-oriented language like Python and YAML
- Each line called step and starts with keyword and end of the line terminates the step.
- Tab or space (preferred) are used for indentation.
- Comments can be added anywhere but start with a # sign.

Gherkin Keywords



The keywords are –

- Feature
- Scenario
- Given, When, Then, And, But (Steps)
- Background
- Scenario outline

Example



Feature: Search feature for users

This feature is very important because it will allow users to filter products

Scenario: *When a user searches, without spelling mistake, for a product name present in inventory. All the products with similar name should be displayed*

Given *User is on the main page of www.myshopingsite.com*

When *User searches for laptops*

Then *search page should be updated with the lists of laptops*



Rules for using Gherkin

- Single Gherkin source file should have a description of the single feature.
- the source file should have the *.feature* extension.



```
Feature: UserRegistration
    Check for the Home page
    See of the registration is working
    Also verify if the registered user is displayed

Background:
    Given Clear the already created users before starting scenario

Scenario: Register a User with minimal password combinations
    Given I have opened the Development Site
    And I see the home page loaded
    When I click the register link
    Then I should see the register page
    And I fill the form with details
    | UserName | Password | CPassword |
    | karthik  | kkk      | kkk       |
```




Feature acts as a heading for a Scenario

Feature has a list of steps to be performed in particular scenario as a whole

The **Feature** keyword is used to describe a software feature, and to group the related scenarios.

A Feature has three basic elements

- The keyword – Feature.
- The name of the feature, provided on the same line as the Feature keyword.
- An optional description that can span multiple lines

Feature files are the base files to hold all the scenarios



Background

Backgrounds are used with the scenarios which have common functionalities

They will be executed before every scenario and perform the operation specified

For Example:

In scenarios like checking user settings, profile settings, user information, the common operations are

- Launching the application

- Login into the application

Background:

Given Clear the already created users before starting scenario

Feature



- Based on the example given anybody can understand the working of the test and what it is intending to do.
- It gives an unexpected powerful impact by enabling people to visualize the system even before it has been built.
- Any of the business user would read and understand the test and would be able to give the feedback that whether it reflects their understanding of what the system should do, and any other scenario that needs to be considered.

Summary



In this lesson, you have learnt:

- Gherkin Language and its syntax
- Creating feature file and generating test cases



Review Question



1. What will be extension of a feature file?
 - a. .exe
 - b. .obj
 - c. .feature
 - d. .sfj

