

Cucumber with Gherkin - Complete Guide

Gherkin Syntax (Cucumber DSL)

Gherkin is the language used to write test cases in Cucumber. It's human-readable and uses the `.feature`` file format.

1. Feature

Feature: Login functionality

2. Scenario

Scenario: Successful login with valid credentials

3. Given / When / Then / And / But

Given user is on login page

When user enters valid username and password

Then user should be navigated to homepage

And user should see welcome message

4. Scenario Outline

Scenario Outline: Login with multiple credentials

Given user is on login page

When user enters "<username>" and "<password>"

Then user should see "<result>"

Examples:

username password result
admin admin123 Home page
test wrong Invalid credentials message

5. Background

Background:

Given user is on login page

Scenario: Valid login

When user enters correct credentials

Then user should be on homepage

Cucumber Annotations in Java

1. @Given, @When, @Then, @And, @But

Used in Step Definitions

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2. @Before, @After Hooks

@Before

```
public void setUp() {...}
```

@After

```
public void tearDown() {...}
```

3. @BeforeStep, @AfterStep

Runs before/after each step

4. @DataTable Tabular Data

Scenario: Fill user details

Given user enters following details

name email
Alice alice@mail.com

Cucumber Runner Class

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

```
@CucumberOptions(
```

```
    features = "src/test/resources/features",
```

```
    glue = "stepDefinitions",
```

```
    dryRun = false,
```

```
    monochrome = true,
```

```
    plugin = {"pretty", "html:target/report.html"},
```

```
    tags = "@SmokeTest"
```

```
)
```

Tags in Cucumber

@SmokeTest

Scenario: Verify login

```
tags = "@SmokeTest or @Regression"
```

```
tags = "@SmokeTest and @Regression"
```

```
tags = "not @WIP"
```

Common Gherkin Keywords

Feature, Scenario, Given, When, Then, And, But, Background, Scenario Outline, Examples

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Full Example Feature File

@SmokeTest

Feature: User Login

Background:

Given browser is launched

And user is on login page

Scenario Outline: Login with different users

When user enters "<username>" and "<password>"

Then user should see "<result>"

Examples:

username password result	
admin admin123 Welcome admin	
user wrong Invalid credentials msg	