

Living Documentation

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Chapter 1. Introduction

Cukedoctor is a **Living documentation** tool which integrates Cucumber and AsciiDoctor in order to convert your *BDD* tests results into an awesome documentation.

Here are some design principles:

- Living documentation should be readable and highlight your software features;
 - Most bdd tools generate reports and not a truly documentation.
- Cukedoctor **do not** introduce a new API that you need to learn, instead it operates on top of [cucumber json output](#) files;
 - In the 'worst case' to [enhance](#) your documentation you will need to know a bit of [asciidoc markup](#).

In the subsequent chapters you will see a documentation which is generated by the output of [Cukedoctor's BDD tests](#), a **real bdd living documentation**.

Chapter 2. Summary

| Scenarios | | | Steps | | | | | | | Features: 3 | |
|----------------------|--------|-------|--------|--------|---------|---------|-----------|---------|-------|-------------|--------|
| Passed | Failed | Total | Passed | Failed | Skipped | Pending | Undefined | Missing | Total | Duration | Status |
| Cukedoctor Converter | | | | | | | | | | | |
| 1 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 01s 808ms | passed |
| Ordering | | | | | | | | | | | |
| 2 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 046ms | passed |
| Enrich features | | | | | | | | | | | |
| 2 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 067ms | passed |
| Totals | | | | | | | | | | | |
| 5 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 15 | 01s 922ms | |

Chapter 3. Features

3.1. Cukedoctor Converter

In order to have awesome *living documentation*
As a bdd developer
I want to use **Cukedoctor** to handle my cucumber reports

3.1.1. Scenario: Convert features output into documentation

Given

The following two features: 🍌 (642ms)

Feature: Feature1

Scenario: Scenario feature 1

Given scenario step

Feature: Feature2

Scenario: Scenario feature 2

Given scenario step

When

I convert their json output report using cukedoctor converter 🍌 (01s 164ms)

To generate cucumber .json output files just execute your *BDD* tests with **json** formatter, example:



```
@RunWith(Cucumber.class)
@CucumberOptions(plugin = {"json:target/cucumber.json"})
```



plugin option replaced **format** option which was deprecated in newer cucumber versions.

Then

I should have awesome living documentation 🍌 (000ms)

Documentation

Summary

| Scenarios | | | Steps | | | | | | | Features: 2 | |
|-----------|--------|-------|--------|--------|---------|---------|-----------|---------|-------|-------------|--------|
| Passed | Failed | Total | Passed | Failed | Skipped | Pending | Undefined | Missing | Total | Duration | Status |
| Feature1 | | | | | | | | | | | |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 647ms | passed |
| Feature2 | | | | | | | | | | | |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 000ms | passed |
| Totals | | | | | | | | | | | |
| 2 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 647ms | |

Features

Feature1

Scenario: Scenario feature 1

Given

scenario step 👍 (647ms)

Feature2

Scenario: Scenario feature 2

Given

scenario step 👍 (000ms)

3.2. Ordering

In order to have features ordered in living documentation
As a bdd developer
I want to control the order of features in my documentation

3.2.1. Scenario: Default ordering

Given

The following two features: 🍌 (000ms)

Feature: Feature1

Scenario: Scenario feature 1

Given scenario step

Feature: Feature2

Scenario: Scenario feature 2

Given scenario step

When

I convert them using default order 🍌 (029ms)

Then

Features should be ordered by name in resulting documentation 🍌 (000ms)

Feature1

Scenario: Scenario feature 1

Given

scenario step 🍌 (647ms)

Feature2

Scenario: Scenario feature 2

Given

scenario step 🍌 (000ms)

3.2.2. Scenario: Custom ordering

Given

The following two features: 🇯🇵 (000ms)

#order: 2

Feature: Feature1

Scenario: Scenario feature 1

Given scenario step

#order: 1

Feature: Feature2

Scenario: Scenario feature 2

Given scenario step



Ordering is done using feature comment '**order:**'

When

I convert them using comment order 🇯🇵 (016ms)

Then

Features should be ordered respecting order comment 🇯🇵 (000ms)

Feature2

Scenario: Scenario feature 2

Given

scenario step 🇯🇵 (000ms)

Feature1

Scenario: Scenario feature 1

Given

scenario step 🇯🇵 (313ms)

3.3. Enrich features

In order to have awesome *living documentation*
As a bdd developer
I want to render asciidoc markup inside my features

3.3.1. Scenario: DocSting enrichment

Asciidoc markup can be used in feature **DocStrings**. To do so you need to enable it by using **cukector-discrete** comment on the feature.

Given

The following two features: 🍌 (000ms)

Feature: Enrich feature

Scenario: Render source code

```
# cukedocter-discrete
Given the following source code in docstrings
"""
[source, java]
-----
public int sum(int x, int y){
  int result = x + y;
  return result; (1)
}
-----
<1> We can have callouts in living documentation
"""
```

Scenario: Render table

```
# cukedocter-discrete
Given the following table
"""
|===
| Cell in column 1, row 1 | Cell in column 2, row 1
| Cell in column 1, row 2 | Cell in column 2, row 2
| Cell in column 1, row 3 | Cell in column 2, row 3
|===
"""
```

When

I convert docstring enriched json output using cukedoctoer converter 🍌 (022ms)

Then

DocString asciidoc output must be rendered in my documentation 🍌 (000ms)

Discrete class feature

Scenario: Render source code

Given

the following source code 🍌 (267ms)

```
public int sum(int x, int y){  
    int result = x + y;  
    return result; ①  
}
```

① We can have callouts in living documentation>

Scenario: Render table

Given

the following table 🍌 (000ms)

| | |
|-------------------------|-------------------------|
| Cell in column 1, row 1 | Cell in column 2, row 1 |
| Cell in column 1, row 2 | Cell in column 2, row 2 |
| Cell in column 1, row 3 | Cell in column 2, row 3 |

3.3.2. Scenario: Comments enrichment

Asciidoc markup can be used in feature comments. To do so you need to surround asciidoc markup by **curly brackets**;

Given

The following feature with asciidoc markup in comments: 🍌 (000ms)

Feature: Calculator

Scenario: Adding numbers

You can **asciidoc markup** in *_feature_ #description#*.

NOTE: This is a very important feature!

*#{IMPORTANT: AsciiDoc markup inside **steps** must be surrounded by **curly brackets**.}*

Given I have numbers 1 and 2

*# {NOTE: Steps comments are placed **before** each steps so this comment is for the **WHEN** step.}*

When I sum the numbers

{ this is a list of itens inside a feature step}*

{ there is no multiline comment in gherkin}*

*# {** second level list item}*

Then I should have 3 as result

When

I convert enriched feature json output using cukedoctoer 🍷 (044ms)

Then

AsciiDoc markup on comments must be rendered in my documentation 🍷 (000ms)

Calculator

Scenario: Adding numbers

You can use **asciidoc markup** in *feature* description.



This is a very important feature!

Given

I have numbers 1 and 2 👍 (114ms)



AsciiDoc markup inside **steps** must be surrounded by **curly brackets**.

When

I sum the numbers 👍 (000ms)



Steps comments are placed **before** each steps so this comment is for the **WHEN** step.

Then

I should have 3 as result 👍 (001ms)

this is a list of itens inside a feature step

there is no multiline comment in gherkin

second level list item