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: 4	
Passed	Failed	Total	Passed	Failed	Skipped	Pending	Undefined	Missing	Total	Duration	Status
Cukedoctor Converter											
1	0	1	3	0	0	0	0	0	3	02s 448ms	passed
Ordering											
2	0	2	6	0	0	0	0	0	6	054ms	passed
Documentation introduction chapter											
1	0	1	4	0	0	0	0	0	4	041ms	passed
Enrich features											
2	0	2	6	0	0	0	0	0	6	085ms	passed
Totals											
6	0	6	19	0	0	0	0	0	19	02s 629ms	

Chapter 3. Features

3.1. Cukedoctor Converter

In order to have awesome *living documentation*
As a bdd developer
I want to use **Cukedoctor** to convert my cucumber test results into living documentation

3.1.1. Scenario: Convert features output into documentation

Given

The following two features: 👍 (01s 002ms)

```
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 445ms)

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 👍 (028ms)

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 👍 (025ms)

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. Documentation introduction chapter

In order to have an introduction chapter in my documentation
As a bdd developer
I want to be able to provide an asciidoc based document which introduces my software

3.3.1. Scenario: Introduction chapter in classpath

Given

The following two features: 👍 (000ms)

```
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

And

The following asciidoc document is on your application classpath 👍 (041ms)

Introduction

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In the 'worst case' to enhance your documentation you will need to know a bit of asciidoc markup.

The introduction file must be named **intro-chapter.adoc** and can be in any package of your application

When

Bdd tests results are converted into documentation by Cukedoctor 👍 (000ms)

Then

Resulting documentation should have the provided introduction chapter 👍 (000ms)

Documentation

Introduction

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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)

3.4. Enrich features

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

3.4.1. Scenario: DocSting enrichment

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

Given
The following two features: 👍 (000ms)

```
Feature: Enrich feature

  Scenario: Render source code

    # cukedoctor-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

    # cukedoctor-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 cukedoctor converter 👍 (039ms)

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

3.4.2. 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: 👍 (002ms)

```
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 cukedoctor 👍 (042ms)

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