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 730ms	passed
Ordering											
2	0	2	6	0	0	0	0	0	6	065ms	passed
Documentation introduction chapter											
1	0	1	4	0	0	0	0	0	4	037ms	passed
Enrich features											
2	0	2	6	0	0	0	0	0	6	079ms	passed
Totals											
6	0	6	19	0	0	0	0	0	19	02s 913ms	

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 282ms)

```
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 447ms)

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 👍 (043ms)

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 👍 (021ms)

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 👍 (037ms)

Introduction

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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.

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

By default Cukedoctor will look into application folders but you can make Cukedoctor look into external folder by setting the following system property:

```
```

```
System.setProperty("INTRO_CHAPTER_DIR","/home/some/external/folder");
```

When

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

Then

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

Documentation

Introduction

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

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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 👍 (037ms)

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: 👍 (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 cukedoctor 👍 (041ms)

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