Cukedoctor Documentation

Version 1.1.4-SNAPSHOT

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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. Features

2.1. 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 `readable` living documentation.

2.1.1. Convert features test output into documentation

Given

The following two features: 👍 (488ms)

```
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

When

I convert their json test output using cukedoctor converter 👍 (956ms)

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 👍 (002ms)

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)

2.2. 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

2.2.1. 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 👍 (025ms)

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)

2.2.2. 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 👍 (052ms)

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)

2.3. Enrich features

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

2.3.1. 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 👍 (044ms)

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&

2.3.2. 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 👍 (035ms)

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

2.4. 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.

2.4.1. 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 👍 (039ms)

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.
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  - In the 'worst case' to <<Enrich-features,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

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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)