Living Documentation

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Chapter 1. Introduction

DBUnit Rules aims for bringing DBUnit closer to your JUnit tests. Here are the main features:

- JUnit rule to integrate with DBUnit via annotations:

```
@Rule
public DBUnitRule dbUnitRule = DBUnitRule.instance(jdbcConnection);①

@Test
@DataSet(value = "datasets/yml/users.yml")
public void shouldSeedDataSet(){
    //database is seed with users.yml dataset
}
```

① The rule depends on a JDBC connection.

- CDI interceptor to seed database without rule instantiation;

- Json, Yaml, xml and flat xml support;

- Cucumber integration;

- JPA integration;

- Multiple database support;

- Date/time support in datasets;

The project is composed by 5 modules:

- Core: Contains the dataset executor and JUnit rule;

- CDI: provides the DBUnit interceptor

- Cucumber: a CDI aware cucumber runner;

- JPA: Comes with a dataset executor based on JPA entity manager

- Examples module.

Chapter 2. Summary

Scenarios			Steps							Features: 2	
Passed	Failed	Total	Passed	Failed	Skipped	Pending	Undefined	Missing	Total	Duration	Status
Seeding database with DBUnit Rules CDI module											
1	0	1	4	0	0	0	0	0	4	01s 206ms	passed
Seeding database with DBUnit Rules Core module											
1	0	1	1	0	0	0	0	0	1	010ms	passed
Totals											
2	0	2	5	0	0	0	0	0	5	01s 217ms	

Chapter 3. Features

3.1. Seeding database with DBUnit Rules CDI module

> In order to manage database state in **CDI** based tests
> As a developer
> I want to use DBUnit in a CDI test environment.

DBUnit CDI integration is done through a CDI interceptor.

⚠ CDI must be enabled in your test, see the following example:

```
@RunWith(CdiTestRunner.class) ①
public class DBUnitCDITest {

}
```

① CdiTestRunner is provided by Apache Deltaspike but you should be able to use other CDI test runners.

3.1.1. Scenario: Seed database using yml dataset

Given

DBUnit interceptor is enabled in your test beans.xml: 👍 (897ms)

src/test/resources/META-INF/beans.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://java.sun.com/xml/ns/javaee"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/beans_1_0.xsd">
       <interceptors>

<class>com.github.dbunit.rules.cdi.DBUnitInterceptor</class>
       </interceptors>
</beans>
```

> ❗ Your test itself must be a CDI bean to be intercepted. if you're using Deltaspike test control just enable the following property in `test/resources/META-INF/apache-deltaspike.properties`:
>
> ```
> deltaspike.testcontrol.use_test_class_as_cdi_bean=true
> ```

And

The following dataset 👍 (000ms)

src/test/resources/dataset/yml/users.yml

```
user:
  - id: 1
    name: "@realpestano"
  - id: 2
    name: "@dbunit"
tweet:
  - id: abcdef12345
    content: "dbunit rules!"
    user_id: 1
  - id: abcdef12233
    content: "dbunit rules!"
    user_id: 2
  - id: abcdef1343
    content: "CDI for the win!"
    user_id: 2
follower:
  - id: 1
    user_id: 1
    follower_id: 2
```

When

The following test is executed: 👍 (000ms)

```
    @Test
    @UsingDataSet("yml/users.yml")
    public void shouldSeedUserDataSetUsingCdiInterceptor() {
        List<User> users = em.createQuery("select u from User u order
by u.id asc").getResultList();
        User user1 = new User(1);
        User user2 = new User(2);
        Tweet tweetUser1 = new Tweet();
        tweetUser1.setId("abcdef12345");
        assertThat(users).isNotNull().hasSize(2).contains(user1,
user2);
        List<Tweet> tweetsUser1 = users.get(0).getTweets();

assertThat(tweetsUser1).isNotNull().hasSize(1).contains(tweetUser1);
    }
```

Then

The database should be seeded with the dataset content before test execution 👍 (308ms)

3.2. Seeding database with DBUnit Rules Core module

In order to manage database state in JUnit tests
As a developer
I want to use DBUnit in my tests.

DBUnit Rules Core module brings DBunit to your unit tests via JUnit rules.

3.2.1. Scenario: Seed database using yml dataset

Given

The following junit rules 👍 (010ms)

src/test/resources/dataset/yml/users.yml

```
    @Rule
    public EntityManagerProvider emProvider =
EntityManagerProvider.instance("rules-it");

    @Rule
    public DBUnitRule dbUnitRule =
DBUnitRule.instance(emProvider.getConnection());
```