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 | Skippe d | Pendin g | Undefi ned | Missin g | Total | Durati on | Status |
| Seeding database with DBUnit Rules CDI module | | | | | | | | | | | |
| 1 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 826ms | passed |
| Seeding database with DBUnit Rules Core module | | | | | | | | | | | |
| 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 004ms | passed |
| Totals | | | | | | | | | | | |
| 2 | 0 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 831ms | |

Chapter 3. Features

3.1. Seeding database with DBUnit Rules CDI module

```
[quote]
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.
[IMPORTANT]
CDI must be enabled in your test, see the following example:
[source, java]
@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 | | | |
|-------|--|--|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | 3 |

DBUnit interceptor is enabled in your test beans.xml: d (509ms)

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



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 do (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

```
@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);
}
```

The database should be seeded with the dataset content before test execution database (316ms)

3.2. Seeding database with DBUnit Rules Core module

```
[quote]

In order to prepare database state during JUnit tests

As a developer

I want to integrate DBUnit in my JUnit tests.

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

3.2.1. Scenario: Seed database using yml dataset

```
the following junit rules (004ms)

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

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

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