

CCBUS

Connect DB Tool

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1 Introduction

Presents tool for building typed meta data from JPA Entities.

Generated Meta data feeds ccbus.system.query API and provides typed and safe queries.

2 Requirements

- Java 8
- Maven tool

3 Installation

- Checkout Ccbus db meta generator tool

```
terminal$ svn export svn://192.168.0.2/projects/ccbus/ccbusDbTool/trunk/release/ccbus-dbtool.jar .
```

#Make the bin executable

```
[For linux] terminal$ sudo chmod +x ccbus-dbtool.jar
```

- ✓ Show help:

```
java -jar ccbus-dbtool.jar -h
```

- ✓ Generate configuration file:

```
java -jar ccbus-dbtool.jar -g
```

✓ Set up configuration file , example below:

```
[Project]  
projectPath=/home/artiom/dev/java/ccbusSystemLib  
relativeSrcPath=src/main/java/  
rootPackage=ccbus.system  
  
[Entity]  
entityPackage=ccbus.system.test  
entityPackage=ccbus.system.testAlt  
metaPackage=ccbus.system.meta
```

[Project] - Maven (Spring) project

[Entity] - Entity package configuration

- entityPackage - package name used to resolve Entity path. Could provide more than one package
- metaPackage - package name used to generate meta structure resources (directory, files).

4 Tutorial

4.1 *Compilation*

Every project should have separate configuration file. Put compilation tool with configuration file in your project root path.

Compile file with:

```
java -jar ccbus-dbtool.jar src/main/java/ccbus/system/test/Shape.java
```

4.2 *Meta resource structure*

Bold text presents directory.



```
src
|
java
|
ccbus
|
meta # Directory name depends on the metaPackage
|
Meta.java # Root meta file. Provides access to all meta entities
|
Meta_Entity1.java # Meta file for Entity1.
|
Meta_Entity2.java # Meta file for Entity1.
.
.
.
```

4.3 Supported types

Parser should support all JPA supported types, but following types are confirmed:

- All java primitive types supported by JPA.
- Date (sql and util, sql.Date extends util.Date)
- Joda DateTime
- Enum (inner enum)

4.4 Demo projects

For demo project please checkout following:

`ccbus/ccbusSystemLib/`

Happy coding :)