Subject: Automatic generation of SCH-file from UML
Posted by sergeynikitin on Fri, 04 Sep 2009 12:26:05 GMT

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I do not know in what forum section to put this topic.

I made for myself adapting to the program Dia, that it can generate code sch-file on UML diagrams.

Example of the complex structure of the tables, such as here,

you can immediately get ready sch file in the form:

```
//======================================================================
============//
//          //
//  COMPANY      //
//          //
//======================================================================
============//
TABLE_(COMPANY)
#ifdef MYSQL_DB
 TABLE_SUFFIX("CHARACTER SET utf8 COLLATE utf8_general_ci\n")
#endif
 INT_ (COM_ID) PRIMARY_KEY AUTO_INCREMENT
 INT_ (COM_GROUPID)
 STRING_ (COM_NAME,500)
 STRING_ (COM_INN,500)
 STRING_ (COM_KPP,500)
 STRING_ (COM_COMMENT,500)
END_TABLE

//======================================================================
============//
//          //
//  ACCOUNT      //
//          //
//======================================================================
============//
TABLE_(ACCOUNT)
#ifdef MYSQL_DB
 TABLE_SUFFIX("CHARACTER SET utf8 COLLATE utf8_general_ci\n")
#endif
 INT_  (ACC_ID)
 INT_ (ACC_CORRID)
 INT_ (ACC_BANKID)
```

```
 STRING_ (ACC_NAME,500)
 STRING_ (ACC_ACCOUNT,100)
 STRING_ (ACC_COMMENT,500)
END_TABLE


//=================================================================
============//
//          //
//  BANK    //
//          //
//=================================================================
============//
TABLE_(BANK)
#ifdef MYSQL_DB
 TABLE_SUFFIX("CHARACTER SET utf8 COLLATE utf8_general_ci\n")
#endif
 INT_ (BNK_ID)
 STRING_ (BNK_NAME,500)
 STRING_ (BNK_BIK,100)
 STRING_ (BNK_CORRACCOUNT,100)
END_TABLE

....
....
The same description of the other files.
....
....
```

File Attachments
1) Ñíèìîê-PrintProject.dia.png   , downloaded 1914 times

Subject: Re: Automatic generation of SCH-file from UML
Posted by Mindtraveller on Fri, 04 Sep 2009 12:38:18 GMT
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Cool! Will the binary form of editor be available for others?

Subject: Automatic generation of SCH-file from UML
Posted by sergeynikitin on Fri, 04 Sep 2009 13:02:22 GMT
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The method is very simple.
1. Setup the program Dia. (http://projects.gnome.org/dia/)

2. Set the updated script codegen.py in the folder
/usr/share/dia/python/ from Attachment

3. Compile all the scripts in the directory
/usr/share/dia/python/
command: python -mcompileall ./ (if necessary, manually remove codegen.pyc before compiling).

4. We follow the simple rules for creating UML diagrams in the program. Here is the description of one table:

5. Click File -> Export, select the type:
PyDia Code Generation (U++ Sch) (*.sch)

6. We enjoy the results.

PS.
All this was done in UBUNTU 9.04
How to do the same for Windows, I do not know.

PSPS
If you need more detailed descriptions and instructions, I am pleased to share.

File Attachments
1) Ñíèìîê-Properties: UML - Class.png   , downloaded 1484
times

Subject: Automatic generation of SCH-file from UML
Posted by sergeynikitin on Fri, 04 Sep 2009 13:08:11 GMT
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The most important thing.

1. This file - codegen.py

must put in a folder
/usr/share/dia/python/

2. remove from this folder codegen.pyc

3. Start compiling all scripts in this folder

python -mcompileall ./

4. Dia is ready to export sch-files.

File Attachments
1) codegen.py, downloaded 1369 times

Subject: Re: Automatic generation of SCH-file from UML
Posted by sergeynikitin on Fri, 04 Sep 2009 13:14:20 GMT
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Of course this way imperfect.

Frankly, I made it for 15 minutes.

And maybe someone will propose how to improve it.

I just like the tool has long wanted to do or how to get something.

Very sad without visual aids to design the database from the set of related tables.

In general, want to see suggestions for improvement.

Subject: Re: Automatic generation of SCH-file from UML
Posted by lectus on Thu, 13 Dec 2012 20:17:19 GMT
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MySQL Workbench is by far the best UML modeling tool for databases that I found.

It might be easier to write a script/plugin for that. It supports python too.

Subject: Re: Automatic generation of SCH-file from UML
Posted by sergeynikitin on Fri, 14 Dec 2012 19:24:30 GMT
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Script language - is any of existing. Task is very transparent.