



Marco's Component Maker for Joomla! 1.5

Creating components for Joomla 1.5! is much more complicated than doing so for version 1.0 because you need to write lot of code for controllers, models, views, tables and templates for the view.



However much of this code is just a writing machine ... So why rewrite it every time?

This is why I wrote Marco's Component Maker for Joomla!1.5 (formerly *Joomla Component Builder*), for me it was useful, I hope it is for you.

This extension is also published on <http://extensions.joomla.org> , if you like, it vote it or write a review, thank you.

Building components for Joomla!1.5

New in version 1.5.2.0: Joomla! 1.6 support

Note: because of the work, I'm late with new releases of the program :(

So you can ignore the warning "This version has expired, ..."

Sorry, marco

FEATURES

- generates **full working components**
- retrieves the necessary data directly from a MySQL database
- Create **controllers, models, views, tables and templates** for any of the selected tables
- auto determines primary key field (must be numeric)
- creates the files needed to edit individual records and to display the listing of tables
- generates installable components
- is based on customizable templates to generate the php files of Joomla
- templates are based on the component [com_hello](#) so you can refer to the documentation of

Joomla!

- Joomla 1.5 and 1.6 code generation

REQUIREMENTS

- runtime. NET 2.0+ or Mono 2.4.3+
- MySql Connector-Net 6.2.3 from <http://dev.mysql.com/downloads/connector/net/>
- a mysql db access via TCP / IP installed the tables containing the data for the management of which is to create the component
- a little 'patience as it is still in beta ...

releases prior 1.5.0 only:

- why is created functioning components, the tables must have these three fields (the default Joomla!): **id** (primary key), **published** and **ordering**. If these fields do not exist will also be edited in the source table and controllers.

releases 1.5.0 +:

- the fields **published** and **ordering** are no more mandatory, anyway these fields have a special role/management (as in Joomla! default).

As you understood, this is a machine translation. Not always I have time to translate the text, so I limit myself to some corrections: sorry...

INSTRUCTIONS

Please, read carefully the instructions and the articles about the sample component before asking for help. The program is provided free, but without any support. anyway I try to respond to every mail.

1.

please, READ THIS FOXED PAGE till the end. thanks.

download the package: [Joomla!1.5 generator components](#) (downloads are at the end of the page, before comments) and unzip it in a folder.

2.

change *JoomlaComponentBuilder.exe.config* (*marcoComponentMaker.exe.config* since v 1.1) to meet your MySQL server settings and add the connectionStrings

```
<?xml version = "1.0" encoding = "utf-8"?>
<configuration>
<connectionStrings>
<add name = "testserver" ProviderName = "MySql.Data.MySqlClient" connectionString = "
Server = 192.168.10.76; vmtest1 Database = uid = root; =;" /> Pwd
</ connectionStrings>
</ configuration>
```

you would enter:

- mnemonic IP address or server (**Server**)
- database name to use (**Database**)
- username (**UID**) [must be able to see the tables needed to component]
- Password (**PWD**)

Note on MySQL Connector 6.2.2:

This version of the connector has a bug: the insertion of a key without the corresponding value generates a runtime error, so if you wish to access the DB without a password, and you omit the value for password, you have not to insert the Pwd keyword.

the connection string, instead of:

```
<add name="testServer" providerName="MySql.Data.MySqlClient"
connectionString="Server=192.168.10.76;Database=vmtest1;Uid=root;Pwd=;" />
```

becomes:

```
<add name="testServer" providerName="MySql.Data.MySqlClient"
connectionString="Server=192.168.10.76;Database=vmtest1;Uid=root;" />
```

(ip and databases values are just examples)

Newer MySQL Connector driver: (since v 1.5)

To use a new MySQL driver with this build of the program open *marcoComponentMaker.exe.config* and locate the line

```
<bindingRedirect oldVersion="6.2.3.0" newVersion="6.2.3.0" />
```

insert the driver build version as *newVersion* parameter.

At the time of writing, the latest version of the mysql connector is 6.3.5, so, if you have downloaded this one, change previous line to:

```
<bindingRedirect oldVersion="6.2.3.0" newVersion="6.3.5.0" />
```

3.

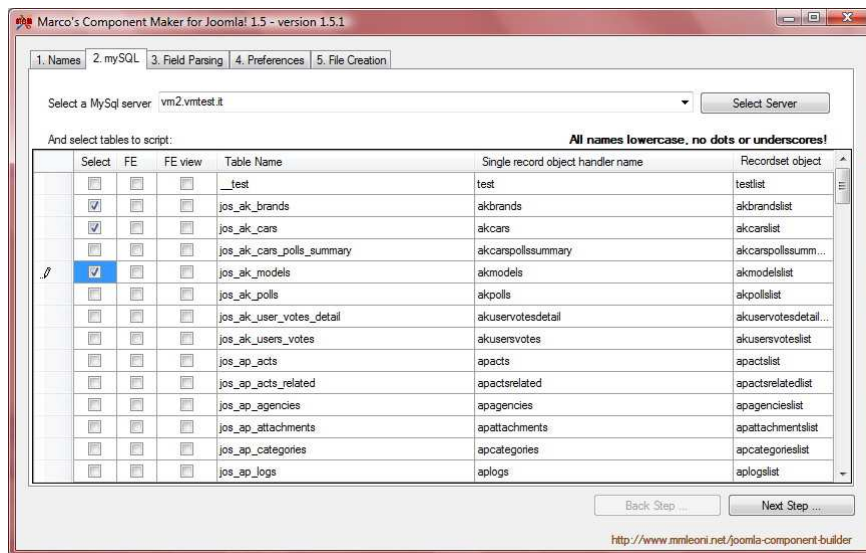
run the program.

fill in the fields:

- **Component Name:** the name of the component
- **Safe Name:** the name (without _ or other strange characters, using only lowercase letters) for use in models. ... Controllers
- **Table prefix:** used to install Joomla (Prefix Table) [part of the name to be replaced with '#__', typical 'jos_']
- **License:** license for generated files (do do)
- **Render "text" fields as:** default renderer for text type(tinytext, text, mediumtext, longtext) fields
 - **textarea:** default html <textarea>
 - **rte editor:** Joomla! rte editor
- **Render "datetime" fields as:** default renderer for datetime type(date, time, timestamp, datetime) fields
 - **calender:** Joomla! js calendar
 - **string:** default html <input>
- **Output Version:** targeted Joomla! version
- **Generate translation file:** create a translation file for each selected language (you have to translate... of course)

4.

and then select the database tables for which will be created models, controllers and views

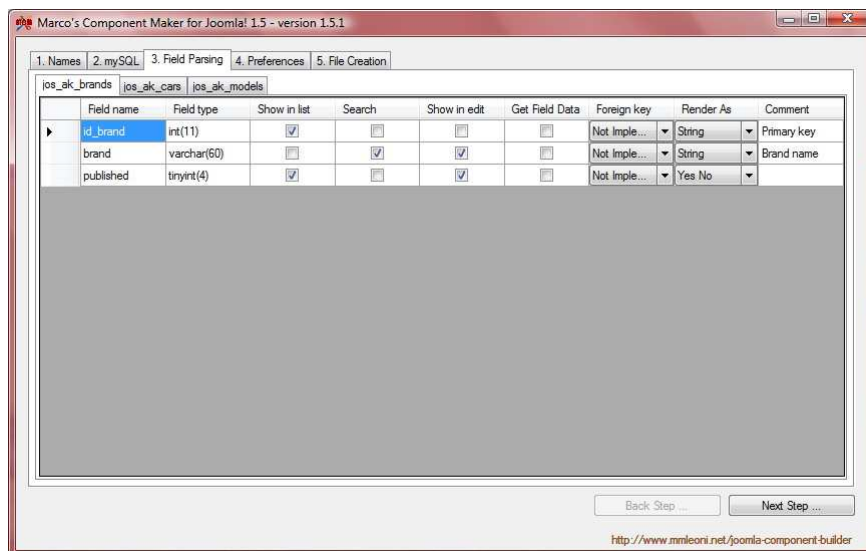


fill in the fields:

- **Select:** Select the tables that will be part of the component
- **FE:** not yet implemented
- **FE view:** not yet implemented
- **Table Class:** The name used to create the table
- **Single record object handler name:** The name used to create the objects needed to interact with the table recordset
- **Recordset object handler name:** The name used to create the objects needed to interact with the single record

5.

the program parses the DB and shows the fields in every table



use tab navigation to select the table to edit. These options works only on BE (back end)

- **Field name:** (read only)
- **Field type:** (read only)
- **Show in list:** show field when list records (default: primary key, `id`, `name`, `title`, `publish`, `published`, `ordering`, `access`)
- **Search:** use field for search records in table (default: all text type fields)

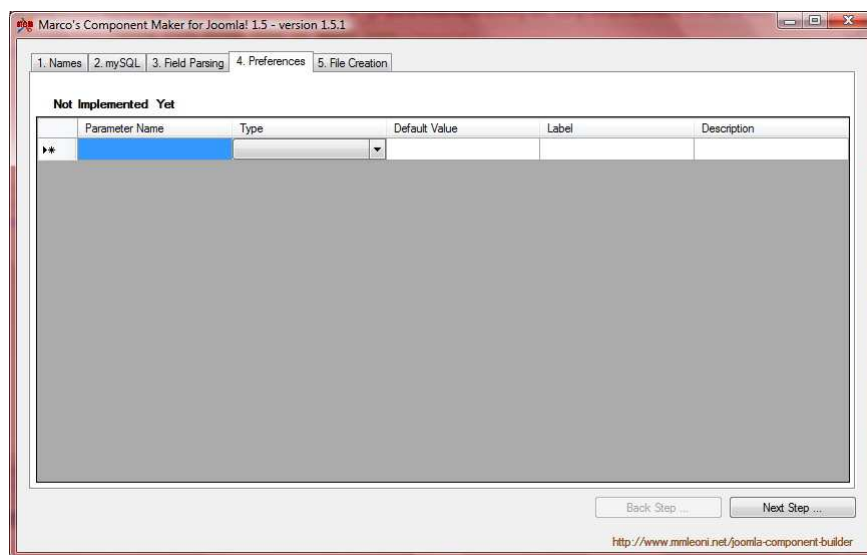
- **Show in edit:** show field in edit form (default: all but primary key)
- **Get Field Data:** generate method in record list model to get specific field values (see code comments for help)
- **Foreign key:** not implemented yet
- **Render As:** use a specific input type for rendering (input, text area, rte, select, boolean radio, calendar)
- **Comment:** (read only)

Please pay attention!

'Get Field Data' doesn't check if method name is valid. so if you select the field 'name' will be generated the getName() method overriding the JModel->getName(). In doubt add a suffix to auto-generated method! (fixed in 1.5.2.0)

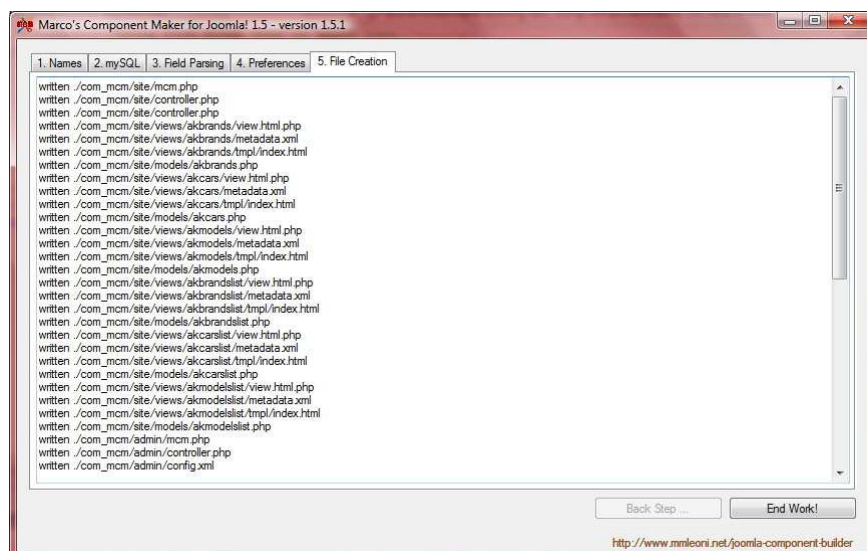
6.

Not yet implemented. Options (preferences) for component. Does'nt work: press 'Next Step'.



7.

Create the component for Joomla! in a subdirectory in the folder where you ran the program (com_[Safe Name])



8.

At this point you will:

- correct form of editing data in forms of back-end `com_[SafeName]/admin/views/[TableClass]/tmpl/default.php`
 - fix javascript control
- designing the **layout of views** in the front end in `com_[SafeName]/site/views/[TableClass]/tmpl/default.php`
- obviously **add the logic of the component in the controller;**)

releases prior 1.5.1 only:

- Remove unnecessary fields from the display format for record set in `com_[SafeName]/admin/views/[TableClassList]/tmpl/default.php`

releases prior 1.5.0 only:

- add routing to indicate the **default view** of the back-end (comment out the code and add the name of the controller and view) in `com_[Safe Name] / admin / [Safe Name]. php`
- edit `com_[Safe Name] / admin / views / [Table Class] / tmpl / default.php` to create the textarea if required editing HTML, and currently they are created only input of type text that can not handle HTML code, in this case must also be changed according to the 'Store ()' fee in the model to allow this type of content.

compacted the component, or load it in the directory / tmp, and install it.

9.

let me know what you think: be good, is still in beta;)

Notes on Joomla! 1.6 code generation

Joomla! 1.6 support is still in alpha version. Generated code runs, but is a 1.5 porting, not a real 1.6 code. Not all new features are supported.

OK:

- it runs!!
- translation files fully compliant
- basic ACL support on component

KO:

- no ACL at table / row level
- do not use new class for models/controllers/forms/fields in admin

Supported OSs

Bad news from the front of Mono.

Because a lack of implementation in System.Windows.Forms.DataGridViewCell.GetValue() function call, versions greater than 1.5 are not compatible with the Mono environment.

I hope this will be fixed soon.

The program requires Microsoft .NET 2.0+ or Mono 2.4.3+; therefore can be used on any operating system that supports one of two frameworks:

- * Windows: XP, Vista, Windows 7, Windows 2003
- * Linux
- * Mac OS X Tiger(10.4), Leopard (10.5), and Snow Leopard (10.6)

The installation package contains the library MySQL.Data.dll 6.1.2.0 for Windows (not included since v1.1); to use the program on another OS, delete the library and install the package 'Connector-Net 6.2.2', version '.Net & Mono (Architecture Independent)', or later, from mysql.com.

For more details, or for troubleshooting installation issues, refer to the support of Mono Mono and your operating system.

How to work on Ubuntu

Quick instructions: To use Joomla Component Builder on Ubuntu (tested with Ubuntu 10.4) install the packages 'MonoDevelop' and 'MonoDevelop-database'. After, you have to download the package 'Connector-Net 6.2.2' version '.Net & Mono (Architecture Independent)' From mysql.com. Unzip the package and install the library in the GAC, as root, with

```
gacutil-i [pathToLib/]mysql.data.dll
```

After that, copy mysql.data.dll in /usr/lib/mono/2.0/

Bigham (thanks) also informed me that, sometimes, you must rename the file mysql.data.dll to MySQL.Data.dll (<http://forums.mysql.com/read.php?47,367529,367529>).

Important Note: For more details, or for troubleshooting installation issues, refer to the support of Mono and your operating system.

Trouble Shooting

Here I collected some error messages and the explanation of problem. Please do not ask help about MySQL Server or .NET / Mono configuration.

Could not load file or assembly 'MySQL.Data'

This error means that MySQL connector was not properly installed: usually this is not a marcoComponentMaker issue.

1. Be sure to have full .NET 2.0 (or greater) and MySQL connector installed; refer to Microsoft and/or MySQL documentation/help.
If you installed the connector properly you should have it listed in Control Panel/Software; if it is not present try again to install it.
2. Update the reference to library in marcoComponentMaker.exe.config config file
Should look like:


```
<bindingRedirect oldVersion="6.2.3.0" newVersion="6.3.6.0"/>
```

6.3.6.0 is the latest version at time of writing. MUST match the installed version of connector!

Unable to connect to any of the specified MySQL hosts

This error occurs when MySQL server does not accept connections from remote/local clients.

1. Ensure socket connections are enabled or bind-address is properly set in my.cnf; check also the port used for connection (usually 3306).
Configuration options may change: refer to MySQL server documentation.
2. Check (personal) firewalls.
3. If you are trying to connect to a remote server, ask your provider if you can access the sql server from outside the network (and how). Usually this is not possible.

You can use MySQL tool to check connections and analyze network problems.

Access denied for user 'aUser'@'aNetwork' (using password: [YES|NO])

Username and / or password are wrong or a *grant* is needed for user. Refer to MySQL documentation.

History:

planned for next versions (some time in the future, ...but seriously)

- *J1.6 per table ACL*
- *move every 'generated code' template in external resource*
- *full J1.6 support (support for new J16 admin classes)*
- *full xml metadata for menu items*
- *full foreign keys support*
- *front end editing*
- *j1.6 per table-> row ACL (low priority)*

Jan 13, 2011 - v 1.5.2.0

- *Joomla! 1.6 support*
- *generation of multiple translation files*
- *no more use of global vars (\$mainframe, \$option) both J1.5 and J1.6 code*
- *minor code improvements*

Dec 29, 2010 - v 1.5.1.0

- *support for translation files*
- *more input render types (string, text area, rich text editor, calendar, select list, boolean radio button)*
- *field by field rendering control*
- *minimum support for related tables (foreign keys)*
- *selection of fields for list/editing*
- *selection of searchable fields*

Jun 12, 2010 - v 1.5.0.0

- *no more mandatory fields in table (id, ordering, published)*
- *automatic recognition of primary key (no need that there is `id`, but must be numeric)*
- *generation of submenu for navigation between controllers, no more need to add navigation*

manually

- *back end table list with sortable fields list & filter*
- *automatic rendering based on DB field type (input/textarea/rte/calendar)*
- *input validation, based on DB field type, before saving data*
- *configuration file management for generated component*
- *more security checks*

April 13, 2010

- *maintenance release for mysql connector 6.2.3*

April 5, 2010

- *Added checks on the names of objects and on the structure of db*
- *Added checks for mandatory fields*
- *Improvements in PHP code*

February 13, 2010

- *no new release: but Linux and Mac OS X tested!*

December 17, 2009

- *See Italian Text (sorry...)*

December 10, 2009

- *be: moved textbox first order of sliders*
- *be: moved pages are included out of the loop*
- *BE: fixed bug which delete the fields and ordering published*
- *BE: added indentation in view template*
- *be: table, correct the comment with bars \ |*
- *BE: model, proper initialization of the new object by retrieving the values from table*
- *BE: view.html.php, proper inspection new item instead of \$ hello \$ data*
- *BE: view template, aggiuntoscheletro javascript to check*
- *BE: model, input methods to sort the records*
- *BE: controllers, embedded controllers in the specification of all the entry point redirects*

November 20, 2009

- *initial release*

Known bugs

- *Poor front end generation*
- *1.5.1+ tab control doesn't work: USE only 'next step button'*
- *1.5.1 "Get Field Data" in parse table doesn't check generated method name and can override Joomla! methods.*

- 1.5.1 template beViewList.php: row 43 (*`$rows[0]->publish`*) should be (*`$rows[0]->published`*) for [un]publish list.

Solved:

- **Prefix problem:** fixed in 1.5.0.0
Driver *install.sql* contains:
CREATE TABLE IF NOT EXISTS `jos_mytab`
should be
CREATE TABLE IF NOT EXISTS `#__mytab`
Thanx to ZnakZorro

- 1.5.0 missing *php* in opening tag *<?* when Joomla! calendar is rendered
- 1.5.0 error in php *store()* data; in templates/beModel.php replace line 98 with:
\$this->setError(\$row->_db->getErrorMessage());

Bugs report

Please, don't try to submit code by comments or by contact form, because html/php code is stripped out for security reasons. Mail reports or suggestions to red@mmleoni.net.

DOWNLOAD:

Please, read related articles (see: 'example component' and 'manage the back end #1' & 'manage the back end #2') before start to develop.

Joomla! 2.5 components builder v2.5.00 (alpha)

Joomla! 1.5 components builder v1_5_2_0

Joomla! 1.5 components builder v1_5_1_0

Joomla! 1.5 components builder v1_5_0_0

Security Warning

The "front end" code generated by the program versions prior to 1.5 may suffer attacks "lfi" or "SQL injection". You hardly used the "front end" code as it is, but if these are the changes:

feEntryPoint.php

line #29 (LFI vulnerability) replace with

if(\$controller = JRequest::getWord('controller')) {

feModel.php

line #40 (SQL Injection vulnerability) replace with

\$id = JRequest::getInt('id', 0);

Commenti

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|

#66 **Guest** 2014-01-20 12:10

0

Hi,

I cannot export the component to 3.x the option to do that is gray, anybody know how to fix that?

Thanks a lot!

====Answer (missing mail no direct msg)
generated code works on both joomla J2.5 and j3.x versions. it needs just a little layout edit for the backend forms in J3.

bye
marco

Citazione

#65 **Guest** 2014-01-20 11:46

0

Thanks for the new release I waited for it for a long time!
awesome work!
Sorry to hear that is going to be the last version :(

Citazione

#64 **Guest** 2013-03-12 18:14

+4

It's now March 2013, a year since I last commented to say it's been over a year since an update =) I was just checking to see if anything had happened in a year but it's unfortunate to see it hasn't .. Joomla 3.0 is now the recommended Joomla version and this is still 1.5 with beta 1.6 (which happens to work in 2.5) ..

I've moved onto a web based component builder, it builds much more complete code.. the unfortunate thing is that it doesn't build it around my database design so if I have existing tables of data I can't just point it and it work which is why I would prefer to use your code... Please consider updating or releasing it to some community that will update it.. over two years is a long time.

- Lonnie

Citazione

#63 **Guest** 2012-12-07 16:36

0

After downloading and running the .exe application. I discovered the available database does not have tables as indicated on the provided screenshots. How do I have the tables populated after selecting the mysql database.

====Answer
hi hassan,
have you changed the connection parameters in config file?
read carefully the instructions, please!

bye,
marco

Citazione

#62 **Guest** 2012-11-30 08:24

+1

What a great tool! Can you keep update it as the joomla have been update for many times.

Citazione

#61 **Guest** 2012-04-23 11:20
 Thanks Marco, Great work!!!
 Waiting for next release 😊

0

Citazione

#60 **Guest** 2012-03-21 13:46

+1

Citazione Lonnie:

“

Last update was January 2011, it's now March 2012 so it's not been updated in over a year now ..

Has this become abandon ware? alpha support for 1.6 was added, we went through the 1.6 cycle, the 1.7 cycle and now we're into 2.5 .. fortunately the code still runs but it's generating 1.5 code ported roughly to 1.6 ..

Marco buddy! I love your work but it's at this rate it's bound to soon fail .. Please pick this back up, or pass the torch on to someone who will :(

I'd gladly even pay a small fee to buy a license if you modernized it and made it a purchased software.. it would be sad to see this die off.

”

I have found that the 1.6 code generator even in its beta state is still viable for 2.5, yes there is more work to do to bring in the save, save and next, save and close etc but the component still saves many many days / weeks of work.

Citazione

#59 **Lonnie** 2012-03-02 15:02

+7

Last update was January 2011, it's now March 2012 so it's not been updated in over a year now ..

Has this become abandon ware? alpha support for 1.6 was added, we went through the 1.6 cycle, the 1.7 cycle and now we're into 2.5 .. fortunately the code still runs but it's generating 1.5 code ported roughly to 1.6 ..

Marco buddy! I love your work but it's at this rate it's bound to soon fail .. Please pick this back up, or pass the torch on to someone who will :(

I'd gladly even pay a small fee to buy a license if you modernized it and made it a purchased software.. it would be sad to see this die off.

Citazione

#58 **John Wennips** 2012-02-17 16:55

0

Hi Marco.

A error ocured in the last step (file generation). He could't find the path:
 System.IO.DirectoryNotFoundException: Kan een gedeelte van het pad E:\websitesmarco_com_makertemplates\j15feEntryPoint.php niet vinden.

bij System.IO.__Error.WinIOError(Int32 errorCode, String maybeFullPath)

bij System.IO.FileStream.Init(String path, FileMode mode, FileAccess access, Int32 rights, Boolean useRights, FileShare share, Int32 bufferSize, FileOptions options, SECURITY_ATTRIBUTES secAttrs, String msgPath, Boolean bFromProxy)

```
bij System.IO.FileStream..ctor(String path, FileMode mode, FileAccess access, FileShare
share, Int32 bufferSize, FileOptions options)
bij System.IO.StreamReader..ctor(String path, Encoding encoding, Boolean detectEncodingF
romByteOrderMarks, Int32 bufferSize)
bij System.IO.StreamReader..ctor(String path, Encoding encoding)
```

===== Answer:

hi john,
strange error: 'DirectoryNotFoundException'.

did you unpack the zip file or are you trying to use it via window's unpacker?
does the directory 'E:\websitesmarco_com_makertemplatesj15' exist?
less important: did you try to run the program as 'administrator'?

bye,
marco

Citazione

#57 **Peter** 2012-02-09 21:29
Maybe a stupid question?

0

But how can I find unique/safe name for my component.

for example I could choose com_zoo, but com_zoo already exists. Is there a database
somewhere?

===Answer

this is the reason why I put 'marco' in front of the name of my components...

Citazione

1 2 3 4 5 6 7

Aggiorna elenco commenti

RSS feed dei commenti di questo post.

Aggiungi commento

E-Mail

Sito web

1000 caratteri rimasti



Aggiorna

Invia

JComments

Copyright ©Marco Maria Leoni Web Consulting P.IVA 13089190154. - All Rights Reserved.