LearnCubiByExamplesC3

Learn Cubi By Examples Chapter 3 - Add Components

<?xml version="1.0" standalone="no"?>

Updated Jan 14, 2012 by jack@openbiz.me

Learn Cubi By Examples Chapter 3 - Add Components

At the end of previous chapter, we used the metadata generation tool to create 'trac' module and metadata files for ticket. You should be able to view and enter data in ticket view. This chapter will guide you to add components in trac module as well as enhance ticket forms.

Add Components

If you tried to create a new ticket on the ticket form created in previous chapter, you must notice that you have to enter free text for ticket's type, priority, severity, status and resolution. Also you don't know what to enter for product id, component id, version id, milestone id, owner id and reporter id. It apparently has something missing. Let's add these components one by one.

Add Product

As we learned from previous chapter, here we use gen_meta to generate metadata for product. The table is "trac_product" and we want to put the component under cubi/modules/trac/product/.

```
# php gen_meta.php Default trac_product trac.product
 Please select metadata naming:
 1. module path: \trac\product, object name: TracProduct, module name: trac.product
2. module path: \trac\product, object name: Product, module name: trac.product
     specify a custom module path, object name and module name
 Please select: [1/2/s] (1) : 2
 Access control options:
1. Access and Manage (default)
2. Access, Create, Update and Delete
     No access control
 Please select access control type [1/2/3] (1):
Target dir: C:\xampp\htdocs\test\cubi4\modules\trac\product Medata file to create:
    do/ProductDO.xml
    form/Product...Form.xml
view/ProductView.xml
 Do you want to continue? [y/n] (y):
 Do you want to generate data Object? [y/n] (y):
 Generate Data Object metadata file ...
Start generate dataobject ProductDO.
 Create directory C:\xampp\htdocs\test\cubi4\modules/trac/product/do/trac/product/do/ProductDO.xml is generated.
Do you want to generate form Object? [y/n] (y) : Generate Form Object metadata files ... Start generate form object ProductListForm. Create directory C:\xampp\htdocs\test\cubi4\modules/trac/product/form
            /trac/product/form/ProductListForm.xml is generated.
Start generate form object ProductNewForm.
/trac/product/form/ProductNewForm.xml is generated.
 Start generate form object ProductEditForm. /trac/product/form/ProductEditForm.xml is generated.
 Start generate form object ProductDetailForm.
            /trac/product/form/ProductDetailForm.xml is generated.
 Start generate form object ProductCopyForm.
            /trac/product/form/ProductCopyForm.xml is generated.
 Do you want to generate view Object? [y/n] (y) : Generate view Object metadata files ... Start generate form object ProductListview.
            /trac/view/ProductListView.xml is generated.
 Do you want to generate module dashboard files? [y/n] (y): n
 Do you want to modify mod.xml? [y/n] (y) : Modify mod.xml ...
 Start modify mod.xml.
            /trac/mod.xml is modified.
The mod.xml is changed by the gen meta as well.
```

```
<Module Name="trac" Description="trac module" Version="0.1.1" OpenbizVersion="3.0">
     <ACL>
         <Resource Name="trac">
              <action Name="Access" Description="Access Trac Module Dashboard"/>
         </Resource>
         </Resource>
              <Resource Name="trac.product">
<Action Name="Access" Description="Access TracProduct"/>
<Action Name="Manage" Description="Manage TracProduct"/>
          </Resource>
     </ACL̈́>
     <Menu>
         </MenuItem>
              <MenuItem Name="Trac.Product" Title="Product" Description="Trac Product description" URL="" Parent="" Order="1</pre>
                  <MenuItem Name="Trac.Product.List" Title="Product Manage" Description=""</pre>
                                                                                                   URL="/trac/product_list" Order='
              </MenuItem>
         </MenuItem>
          </Menu>
     <Depéndency>
         <Module Name="system"/>
     </Dependency>
 </Module>
In order to load the newly added parts (ACL and menu items) in mod.xml to Cubi, you need to increase the version number.
<Module Name="trac" Description="trac module" Version="0.1.1" OpenbizVersion="3.0">
Then use the command line below to load the trac to Cubi
 # php load_module.php trac
Start loading trac module ...
 [2011-10-09T22:52:00-07:00] Loading module trac
[2011-10-09T22:52:00-07:00] Install Module trac
 [2011-10-09T22:52:00-07:00]
[2011-10-09T22:52:00-07:00]
                               Install Module ACL.
 2011-10-09T22:52:00-07:00]
                               Install Module Menu
 2011-10-09T22:52:00-07:00]
                               Install Module Widget.
 [2011-10-09T22:52:00-07:00] Install Module Resource.
[2011-10-09T22:52:00-07:00] Install Module Change Logs.
 [2011-10-09T22:52:00-07:00] Copy resource files to /cubi/resources folder.
[2011-10-09T22:52:00-07:00] trac is loaded.
Give admin to access all actions of module 'trac'
End loading trac module
You can see a new item is added in the trac dashboard page
                     Cubi Platform
                                                                         Trac
   🔳 Cubi System 🕒 Trac
                                 Trac Dashboard
     Trac
        Ticket
       Product
                                                                       Product
                                         Trac Ticket description
                                                                       Trac Product description
                                         Ticket Manage
                                                                       Product Manage
    Help
                Help Center 🖃
                    Go
Clicking "Product Manage" link to land on the product management view where you can do the basic create/edit/delete operations.
                     Cubi Platform<sup>®</sup>
                                                                         Trac
  ■ Cubi System ➤ Trac ➤ Product ➤ Product Manage
                                                                                                       admin <admin@yourcompany.com>
     Trac
                                 Product Management
                                  ① Add Edit Copy Delete Export
        Product Manage
                                                                      Name
                                                                                                   Description
                                                                                        Show Rows 10 ♥ | ◀ 1 of 0 ▶ ▶|
```

Following what we did for product, we can easily create other components:

- product component.
- milestone
- version
- · enumeration for ticket type, priority, severity, status and resolution

Add Component

php gen_meta.php Default trac_component trac.component

Please select #2 in the metadata naming options (in the first question)

Let's no worry about how to link product component with product and owner now. We will come to it in next paragraphs.

Add Milestone

php gen_meta.php Default trac_milestone trac.milestone

Please select #2 in the metadata naming options (in the first question)

Add Version

php gen_meta.php Default trac_version trac.version

Please select #2 in the metadata naming options (in the first question)

Add enumeration

php gen_meta.php Default trac_enum trac.enum

Please select #2 in the metadata naming options (in the first question)

A Quick Review

After we generate metadata in previous steps, the mod.xml becomes

```
<?xml version="1.0" standalone="no"?>
<Module Name="trac" Description="trac module" Version="0.1.2" OpenbizVersion="3.0">
       <ACL>
              <Resource Name="trac">
                     <action Name="Access" Description="Access Trac Module Dashboard"/>
              </Resource>
              </Resource>
                     <Resource Name="trac.product">
<Action Name="Access" Description="Access TracProduct"/>
<Action Name="Manage" Description="Manage TracProduct"/>
              </Resource>
                     <Resource Name="trac.component">
<Action Name="Access" Description="Access TracComponent"/>
<Action Name="Manage" Description="Manage TracComponent"/>
              </Resource>
              <Resource Name="trac.milestone">
     <Action Name="Access" Description="Access TracMilestone"/>
     <Action Name="Manage" Description="Manage TracMilestone"/>
              </Resource>
              <Resource Name="trac.version">
    <Action Name="Access" Description="Access TracVersion"/>
    <Action Name="Manage" Description="Manage TracVersion"/>
              </Resource>
              <Resource Name="trac.enum">
     <Action Name="Access" Description="Access TracEnum"/>
     <Action Name="Manage" Description="Manage TracEnum"/>
               </Resource>
       </ACL>
       <Menu>
              </MenuItem>
                     <MenuItem Name="Trac.Product" Title="Product" Description="Trac Product description" URL="" Parent=""
<MenuItem Name="Trac.Product.List" Title="Product Manage" Description="" URL="/trac/product_list"</pre>
                                                                                                                                                                 URL="/trac/product_list" Order='
                     </MenuTtem>

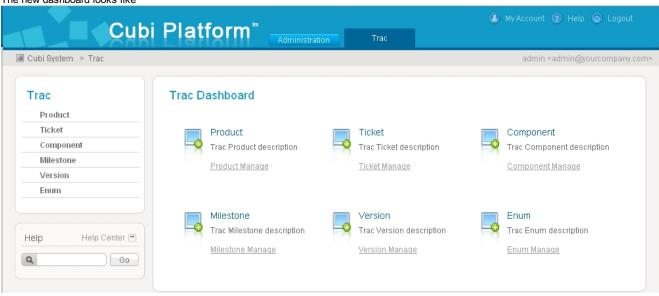
                                                                                                                                                                        URL="/trac/component_list" (
                     </MenuItem>

                     </MenuItem>

<
                     </MenuItem>
              </MenuItem>
              </Menu>
       <Dependency>
              <Module Name="system"/>
        </Dependency>
</Module>
```

Let's increase the Version to 0.1.3, then load module with # php load_module.php trac

The new dashboard looks like



Change ACL and Menu

By the production requirement, we want to put the management pages for product, component, milestone, version and enumeration into a "Trac Admin" menu group with single access control. This is to say that if one can manage product, the same user can manage component, milestone, version and enumeration. Meanwhile we want to leave all ticket operations in the "Ticket" menu group with ticket specific access control. Thus we change the mod.xml as below.

```
<?xml version="1.0" standalone="no"?>
<Module Name="trac" Description="trac module" Version="0.1.5" OpenbizVersion="3.0">
   <ACL>
     <Resource Name="trac">
     <Action Name="Access" Description="Access Trac Module Dashboard"/>
      </Resource>
      Description="Access Trac Ticket"/>
        <Action Name="Manage" Description="Manage Trac Ticket"/>
       /Resource>
      <Resource Name="trac.admin">
        <Action Name="Manage" Description="Manage Trac"/>
      </Resource>
   </ACL>
   <Menu>
     </MenuItem>
        </MenuItem>
      </MenuItem>
      </Menu>
   <Dependency>
      <Module Name="system"/>
   </Dependency>
</Module>
```

As we changed the ACL in mod.xml, we need to change the "Access" attribute in corresponding metadata files. To make it simple, we can just replace the following text with "trac.admin.Manage" in all metadata file under trac/.

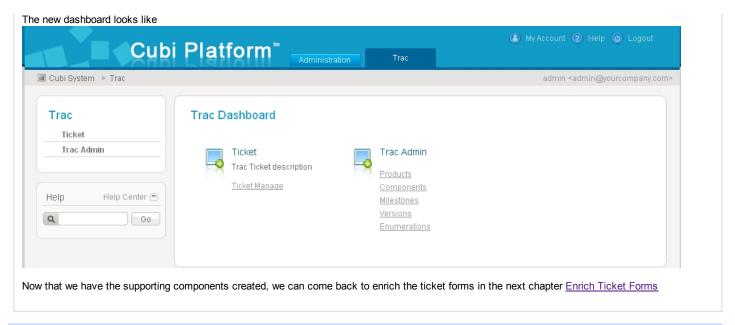
(for example: in EnumDO.xml change CreateCondition="trac.enum.Manage" UpdateCondition="trac.enum.Manage" DeleteCondition="trac.enum.Manage" to CreateCondition="trac.admin.Manage" UpdateCondition="trac.admin.Manage" DeleteCondition="trac.admin.Manage"

in EnumListForm.xml change four Access="trac.enum.Manage" to Access="trac.admin.Manage"

and change EnumListForm.xml's Access and EnumListView.xml's Access attribute to EasyForm Name="EnumListForm" Class="EasyForm" FormType="List" jsClass="jbForm" Title="Enum Management" Description="" BizDataObj="trac.enum.do.EnumDO" PageSize="10" DefaultForm="Y" TemplateEngine="Smarty" TemplateFile="grid.tpl" EventName="" MessageFile="" Access="trac.admin.Manage")

- · trac.version.Access, trac.version.Manage
- trac.milestone.Access, trac.milestone.Manage
- trac.product.Access, trac.product.Manage
- trac.component.Access, trac.component.Manage
- trac.enum.Access, trac.enum.Manage

Let's increase the Version to 0.1.5, then load module with # php load_module.php trac



Comment by mohamed....@gmail.com, Dec 27, 2011

I changed the **Access** attributes to trac.admin.Manage in 5 files. However, When I click the sub menus under Trac Admin, the system responds **Access Denied**

Comment by mohamed....@gmail.com, Dec 27, 2011

And further, I couldn't locate any of the following Access attributes in any of the xml files (as described in the above explanations)

admin.version.Access, admin.version.Manage admin.milestone.Access, admin.milestone.Manage admin.product.Access, admin.product.Manage admin.component.Access, admin.component.Manage admin.enum.Access, admin.enum.Manage

instead its as follows in the related files ending with xxxListForm.xml

trac.version.Manage, trac.milestone.Manage, trac.product.Manage, trac.component.Manage, and trac.enum.Manage

This is an extract of the new file ComponentListForm?.xml

Any assistance would be most appreciated. Tx. Nazim

Comment by thekenya...@gmail.com, Aug 19, 2012

When the system says Access Denied, logout and log back in to the admin account.

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