SBNDF&CMS

User Guide How to create a Custom Component

By SBND Technologies

1) Requirements

Let's say we need a basic functionality that allows the site administrator to publish FAQs. We will need one text field for question and one for answer.

2) Create a component for Control Panel

First, we will create a component for Control Panel. With this component admin user will be able to add data for new questions and their answers.

New component can be created in directory root/cmp, but it is a good practice to create directories /back and /front in /cmp.

- **2.1) Create a php file** root/cmp/back/FAQ.cmp.php. The sub extension "cmp" is important, it tells the system that this php file is a component.
- **2.2) Declare class** FAQ in the new file (the name of the class has to be the same as the file's name) that extends CmsComponent.

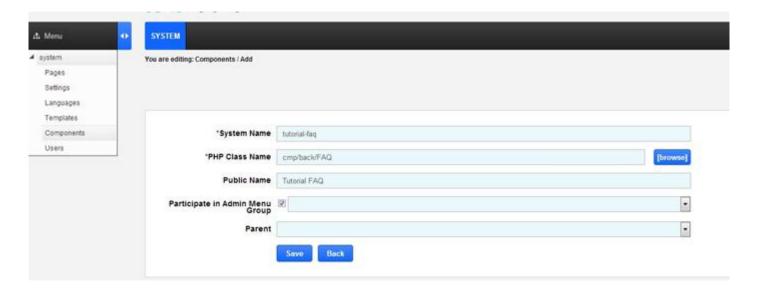
```
1.class FAQ extends CmsComponent{
2. // define the name of the database table.
3. public $base = 'faq';
4. }
```

2.3) Override the method main() and declare two component fields. For more information about component fields see *component-fields-options.txt* in the documentation.

```
1.function main(){
2. // call parent method for save main functionality.
3. parent::main();
4.
5. $this->setField('question', array
```

```
6. 'text' => BASIC LANGUAGE::init()-
  >get('faq question'),
    'perm' => '*',
7.
8.
  'lingual' => true
    ));
9.
        $this->setField('answer', array(
10.
        'text' => BASIC LANGUAGE::init()-
11.
  >get('faq_answer'),
        'perm' => '*'
12.
13.
        'formtype' => 'html',
        'dbtype' => 'longtext',
14.
        'lingual' => true
15.
16.
        ));
17.
      // (optional. By default is false) start ordering sup
18.
  port
19.
        $this->ordering(true);
20.
```

2.4) Add the component in the Control Panel. Go to Control Panel(cp) -> System -> Components -> Add in Control Panel and fill in the fields.





2.5) Default system List view shows columns for all components fields. We can change this.

```
1. function ActionList(){
2. $this->map('question', BASIC_LANGUAGE::init()-
  >get('faq question'), 'formater', 'align=left');
3. $this->map('answer', BASIC_LANGUAGE::init()-
  >get('faq_answer'), 'formater', 'width=500', 'align=left'
  );
4.
5. return parent::ActionList();
6. }
7. // We will make and formatter for the column "answer" th
  at will cut the answer length to clear html tags and cut
  to 50
8. // symbols.
9. function formater($val, $name, $row){
       if ($name == answer){
10.
       $tmp = strip tags($val);
11.
12.
       if(count($tmp) > 50){
       return substr($tmp, 0, 50) . ' ...';
13.
14.
       }else{
       return $tmp;
15.
16.
17.
18.
       return $val;
19.
```



Done. We have finished the administrative part setup.

3) Create a component for client side

First, we have to create a component that extends the FAQ (the previously created administrative component). We then have to create a template file with specific for the task formatting. Finally, we need to create a page where the question/answer functionality will be presented.

3.1) Create a php file root/cmp/front/FAQFront.cmp.php

```
1.BASIC::init()->imported("FAQ", "cmp/back")
2. class FAQFront extends FAQ{
3.}
```

3.2) Create a template file in root/themes/your_theme/tpl/faq.tpl. You can see the path to you site theme in *Control Panel(cp) - System -> Settings -> SITE_THEME* in Control Panel. For more information about themes see section How To Use Exception And

Mobile Theme.

```
1. <div class="faq-container">
2. 
3. <!-- foreach(${rows},k,row,i) -->
4. <a href="#id_${i}">${row.columns.question.label}</a>
5. <!-- end -->
```

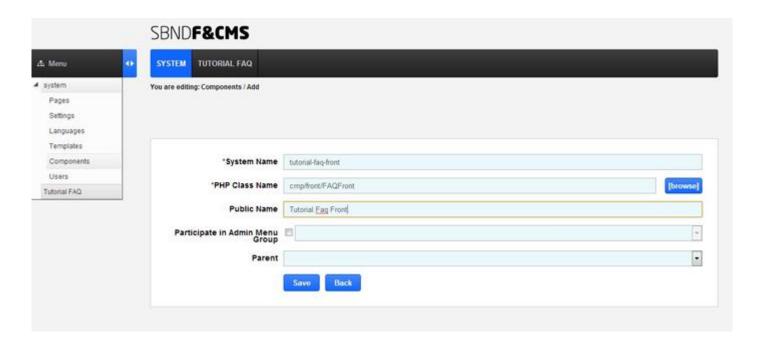
3.3) Configure the component to use new template

```
1.
2.function main(){
3. parent::main();
4. $this->template_list = "faq.tpl";
5.}
```

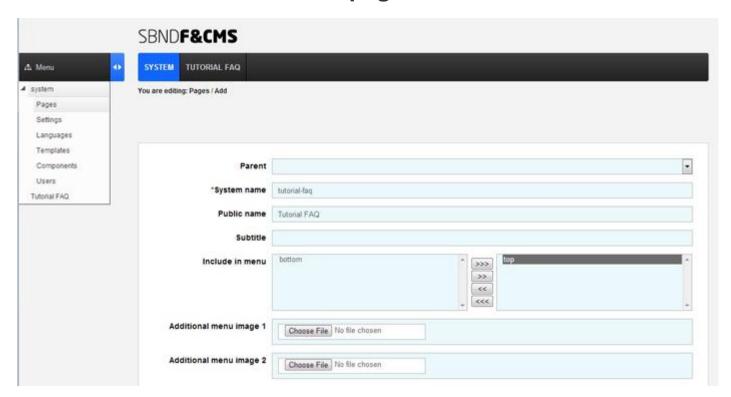
3.4) Stop administrative actions and formatting

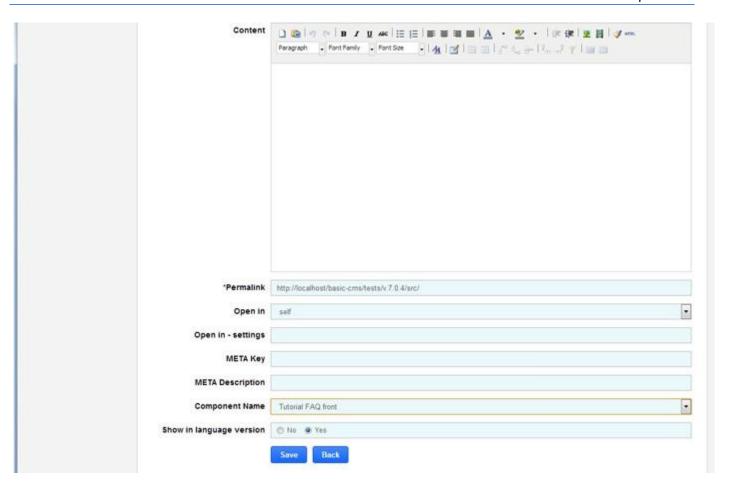
```
1.function main(){
2. parent::main();
    //$this->delAction('save');
4. //$this->delAction('add');
    //$this->delAction('delete');
6.
    $this->delAllActions();
7.
8. // configure this component to use our template.
    $this->template list = 'faq.tpl';
9.
10.
         }
11.
        * Override this method to stop answer test formatin
12.
  g.
        */
13.
14.
        function formater($val, $name, $row){
15.
        return $val;
16.
17.
         }
18.
```

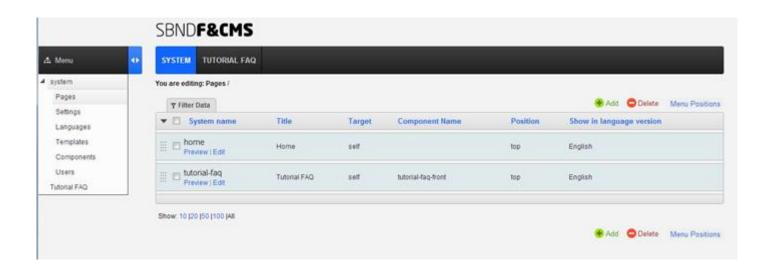
3.5) Open Control Panel(cp) -> System -> Components -> Add in Control Panel and fill the fields



3.6) Open Control Panel(cp) -> System -> Pages -> Add in Control Panel and create new page







We are done. When you open the page in client side you will see the FAQ functionality and UI.

