

Ch ng 3: T o m t component

1. T o component cho Front End

- T o m t th m c tên com_book trong th m c \joomla\components\
- T o t p tin book.php v i n i dung:

```
<?php  
  
defined( '_JEXEC' ) or die( 'Restricted access' );  
echo '<div class="componentheading">Book component</div>';  
  
?>
```

- Ki m tra th com_book t i a ch :
 - o http://localhost/joomla/index.php?option=com_book

2. T o component cho Back-End

- T o m t th m c tên com_book trong th m c \joomla\administrator\components\
- T o m t t p tin admin.book.php v i n i dung:

```
<?php  
  
defined( '_JEXEC' ) or die( 'Restricted access' );  
echo 'Book component';  
  
?>
```

- Ki m tra th com_book t i a ch :
 - o http://localhost/joomla/administrato/index.php?option=com_book

3. ng ký trong c s d li u

- M phpMyAdmin. ng nh p vào phpMyAdmin n u phpMyAdmin có m t kh u
- Ch n c s d li u Joomla mà b n ang s d ng
- Ch n b ng jos_components
- Nh n tab Insert thêm m t dòng m i vào b ng
- Nh p d li u vào nh b ng sau

Tên field	D li u nh p vào	Ghi chú
id	Null	
name	Vina Book	
link	option=com_book	
menuid	0	
parent	0	
admin_menu_link	option=com_book	
admin_menu_alt	Vina Book	
option	com_book	
ordering	0	
admin_menu_img	js/ThemeOffice/component.png	
iscore	0	

params		
enabled	1	

- Nh n nút Go sau khi ã nh p xong d li u
- Ho c chúng ta có th nh p vào o n mã sau

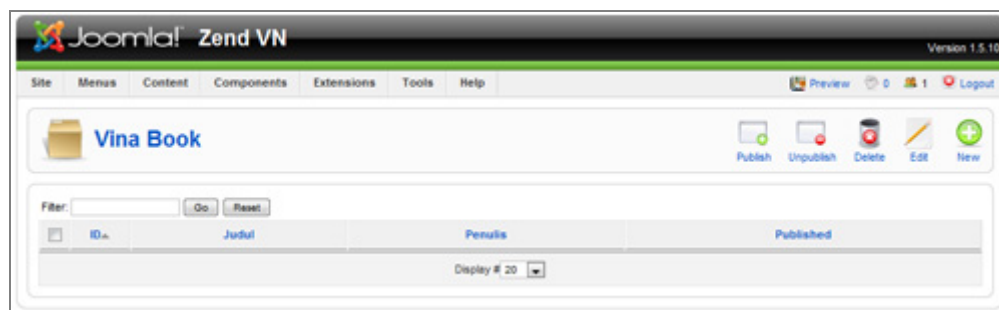
```
INSERT INTO `jos_components` ( `id` , `name` , `link` ,  
`menuid` , `parent` , `admin_menu_link` , `admin_menu_alt`  
 , `option` , `ordering` , `admin_menu_img` , `iscore` ,  
`params` , `enabled` )  
  
VALUES ( NULL , 'Book component', 'option=com_book', '0',  
'0', 'option=com_book', 'Vina Book component',  
'com_book', '0', 'js/ThemeOffice/component.png', '0', '',  
'1');
```

- Ki m tra th : Vào Back-End ch n Components menu

4. T o link cho Front-End

- Vào Back-End. Ch n Menus | Main Menu
- Nh n nút New trên thanh toolbar
- Ch n Book component
- Nh p 'Vina Book' vào ô title
- Nh n nút Save trên thanh toolbar

5. T o Toolbar cho trang chính



- T o trang i u khi n Toolbar có tên toolbar.book.php v i n i dung:

```
<?php  
  
defined( '_JEXEC' ) or die( 'Restricted access' );  
  
require_once( JApplicationHelper::getPath(  
'toolbar_html' ) );  
  
switch ( $task )  
{  
    default:  
        TOOLBAR_book::_DEFAULT();  
        break;  
}
```

```
?>
```

- Tạo trang hiển thị Toolbar có tên toolbar.book.html.php với nội dung:

```
<?php
defined( '_JEXEC' ) or die( 'Restricted access' );

class TOOLBAR_book {

    function _DEFAULT() {

        JToolBarHelper::title( JText::_('
'Vina Book' ), 'generic.png' );
        JToolBarHelper::publishList();
        JToolBarHelper::unpublishList();
        JToolBarHelper::deleteList();
        JToolBarHelper::editListX();
        JToolBarHelper::addNewX();
    }
}

?>
```

- Kiểm tra thử component tích hợp:
 - o http://localhost/joomla/administrator/index.php?option=com_book

Chú ý:

- Đặt tên cho phiên xử lý Toolbar trong Joomla
 - o **toolbar.<tên component>.php**
- Đặt tên cho phiên hiển thị của Toolbar trong Joomla
 - o **toolbar.<tên component>.html.php**

6. Tạo Toolbar cho chức năng Add

- Mở trang toolbar.book.php thêm đoạn mã ghi hàm tạo toolbar cho chức năng Add

```
switch ( $task )
{
    case 'add' :
        TOOLBAR_book::_NEW();
        break;

    default:
        TOOLBAR_book::_DEFAULT();
        break;
}
```
















- Mở trang toolbar.book.html.php tạo hàm _NEW thêm các nút trên toolbar cho chức năng Add

```
function _NEW() {
    JToolBarHelper::save();
    JToolBarHelper::apply();
    JToolBarHelper::cancel();
}
```

Chú ý: Các g i hàm c a trang hi n th trong trang x lý

<Tên class trong trang hi n th >::<Tên hàm trong trang hi n th >

- Nh ng nút hi n th trên c t o ra b i l p JToolBarHelper. L p này n m trong t p tin joomla\administrator\includes\toolbar.php. D i này là m t s nút nh n khác trong l p **JToolBarHelper**

JToolBarHelper::save(); JToolBarHelper::savenew(); JToolBarHelper::saveedit();	
JToolBarHelper::back();	
JToolBarHelper::addNew();	
JToolBarHelper::editList();	
JToolBarHelper::trash(); JToolBarHelper::deleteList();	
JToolBarHelper::publish(); JToolBarHelper::publishList(); JToolBarHelper::makeDefault(); JToolBarHelper::assign();	
JToolBarHelper::unpublish(); JToolBarHelper::unpublishList();	
JToolBarHelper::archiveList();	
JToolBarHelper::unarchiveList();	
JToolBarHelper::editHTML();	
JToolBarHelper::editCSS();	
JToolBarHelper::preview();	
JToolBarHelper::media_manager();	
JToolBarHelper::apply();	
JToolBarHelper::cancel();	
JToolBarHelper::divider();	

7. Tạo cơ sở dữ liệu cho book component

- Mở phpMyAdmin. Nhập vào phpMyAdmin nếu phpMyAdmin có mặt trên
- Chọn cơ sở dữ liệu Joomla mà bạn đang sử dụng
- Nhập tên bảng 'jos_books' vào ô Create new table on database. Rồi nhấn nút Go
- Tạo bảng với các thuộc tính sau

Field Name	Type
id	INT(11) UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY
title	VARCHAR(255)
picture	VARCHAR(30)
publish_date	DATE
author	VARCHAR(50)
synopsis	TEXT
content	MEDIUMTEXT
created	DATE
created_by	INT(11)
modified	DATE
modified_by	INT(11)
published	TINYINT(1)

- Nhấn nút Save để lưu lại
- Họ có thể sử dụng ngôn ngữ SQL script sau:

```
CREATE TABLE `jos_books` (  
  `id` INT(11) UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY KEY,  
  `title` VARCHAR(255) NOT NULL,  
  `picture` VARCHAR(30) NOT NULL,  
  `publish_date` DATE NOT NULL,  
  `author` VARCHAR(50) NOT NULL,  
  `synopsis` TEXT NOT NULL,  
  `content` MEDIUMTEXT NOT NULL,  
  `created` DATE NOT NULL,  
  `created_by` INT(11) NOT NULL,  
  `modified` DATE NOT NULL,  
  `modified_by` INT(11) NOT NULL,  
  `published` TINYINT(1) NOT NULL  
) ENGINE = MyISAM;
```

8. Tạo class Table

- Tạo thư mục /tables trong /joomla/administrator/components/com_book/
- Tạo tệp tin book.php trong thư mục /tables với nội dung sau:

```
<?php  
defined('_JEXEC') or die('Restricted Access');  
  
class TableBook extends JTable  
{  
    var $id = null;
```

```
var $title          = null;
var $picture        = null;
var $publish_date   = null;
var $author         = null;
var $synopsis        = null;
var $content        = null;
var $created        = null;
var $created_by     = null;
var $modified       = null;
var $modified_by    = null;
var $published      = 0;

function __construct(&$db)
{
    parent::__construct( '#__books', 'id', $db );
}
?>
```

9. Tạo form thêm mới

- Tạo form thêm mới cho chức năng Add, chúng ta có thể sử dụng các thẻ HTML bình thường như các chú ý về mặt syntax của form theo cách viết của Joomla

9.1. Phần Editor

- Khởi tạo Editor

```
<?php $editor = JFactory::getEditor(); ?>
```

- Xuất ra HTML

```
<?php echo $editor->display( $name, $value, $width, $height, $columns, $rows ); ?>
```

\$name: Tên của phần Editor

\$value: giá trị của phần

\$width: r của phần

\$height: chiều cao của phần

\$columns: số cột

\$rows: số dòng

9.2. Phần Editor

- Hiện thị các script trong Joomla chúng ta làm theo các bước sau
- Khởi tạo script

```
<?php JHTML::_('behavior.calendar'); ?>
```

- Nhúng các tệp tin javascript header

```
<script type="text/javascript"
src="includes/js/calendar/calendar.js"></script>
<script type="text/javascript" src="includes/js/calendar/lang/calendar-
en.js"></script>
```

- Xu t ra HTML

```
<input class="text_area" type="text" name="publish_date" id="publish_date"
size="25" maxlength="255">

<a href="#" onclick="return showCalendar('publish_date', '%Y-%m-%d');">

</a>
```

9.3. Tạo form AddNew

- Mã trang admin.book.php thêm vào nguồn mã sau:

```
<?php
defined( '_JEXEC' ) or die( 'Restricted access' );

require_once( JApplicationHelper::getPath(
'admin_html' ));
JTable::addIncludePath(JPATH_COMPONENT.DS.'tables');
$task = JRequest::getCmd('task');

switch($task){
    case 'add':
        addBook();
        break;

    case 'cancel':
        cancelBook();
        break;

    default:
        showBook();
        break;
}

function addBook(){
    $lists['published'] = JHTML::_('select.booleanlist', 'published' ,
'class="inputbox"', $row->published);

    HTML_book::addBook($lists);
}

function cancelBook()
{
    global $mainframe;
    $mainframe->redirect( 'index.php?option=com_book' );
}

function showBook(){
    HTML_book::showBook();
}

?>
```

- Mã tệp tin admin.book.html.php thêm vào hàm **addBook(\$lists)** tạo form

```
<?php
function addBook($lists){
    $editor =& JFactory::getEditor();
    JHTML::_('behavior.calendar');
```

```
?>
<script type="text/javascript"
src="includes/js/calendar/calendar.js"></script>
<script type="text/javascript" src="includes/js/calendar/lang/calendar-
en.js"></script>

<form action="index.php" method="post" enctype="multipart/form-data"
name="adminForm">
  <table class="admintable">
    <tr>
      <td class="key">

        <label for="message">
          <?php echo JText::_('Title' ); ?>:          </label>
        </td>
        <td >
          <input class="text_area" type="text"
name="title" id="title" size="100" maxlength="255">          </td>
        </tr>
        <tr>
          <td class="key">
            <label for="message">
              <?php echo JText::_('Picture' ); ?>:          </label>
            </td>
            <td >
              <input class="text_area" type="file"
name="picture" id="title" size="80" maxlength="255">          </td>
            </tr>
            <tr>
              <td class="key"><label for="message">
                <?php echo JText::_('Author' ); ?>:          </label></td>
              <td ><input class="text_area" type="text"
name="author" id="author" size="50" maxlength="255"></td>
            </tr>
            <tr>
              <td class="key"><label for="message">
                <?php echo JText::_('Date publish' ); ?>:          </label></td>
              <td >
                <input class="text_area" type="text" name="publish_date"
id="publish_date" size="25" maxlength="255">

                <a href="#" onclick="return showCalendar('publish_date', '%Y-%m-
%d');">
                  
                </a>
              </td>
            </tr>
            <tr>
              <td class="key"><label for="message">
                <?php echo JText::_('Synopsis' ); ?>:          </label></td>
              <td ><?php
echo $editor->display('synopsis','','100%',
'200','40','4'); ?></td>
            </tr>
            <tr>
              <td class="key">
                <label for="message">
                  <?php echo JText::_('Book Content' ); ?>:          </label>
                </td>
              <td ><?php
```



```
        echo $editor->display('content','', '100%',  
                                '300','40','6'); ?></td>  
</tr>  
<tr>  
    <td class="key">  
        <label for="message">  
            <?php echo JText::_('Published' ); ?>  
        </label>  
    </td>  
    <td >  
        <?php  
        echo $lists['published']; ?>  
    </td>  
</tr>  
</table>  
<input type="hidden" name="option" value="com_book" />  
<input type="hidden" name="task" value="" />  
</form>  
<?php  
    }  
?>
```

Chú ý:

Đặt thuộc tính JHTMLSelect:

Giá trị: genericlist: trả về mã HTML của selectBox

JHTML::_('select.genericList', <menu để liệt kê>, <tên selectbox>, <thuộc tính>, <phần tử chứa giá trị trong menu để liệt kê>, <phần tử chứa chú thích trong menu để liệt kê>);

Ví dụ:

```
$reservations = array(  
    '0' => array('value' => 'None Taken', 'text' => 'None Taken'),  
    '1' => array('value' => 'Accepted', 'text' => 'Accepted'),  
    '2' => array('value' => 'Suggested', 'text' => 'Suggested'),  
    '3' => array('value' => 'Required', 'text' => 'Required'),  
);  
$lists['reservations'] = JHTML::_('select.genericList', $reservations,  
'reservations', 'class="inputbox" ', 'value', 'text');
```

Giá trị: booleanlist: trả về mã HTML của radio có 2 giá trị 0 và 1

JHTML::_('select.booleanlist', <tên của radio>, <thuộc tính của radio>, <giá trị trả về>);

Ví dụ:

```
$lists['published'] = JHTML::_('select.booleanlist', 'published',  
'class="inputbox"');
```

10. Thêm dữ liệu vào database

- Menu trang **admin.book.php** thêm vào phần mã sau vào switch():

```
case 'save';  
    saveBook();  
    break;
```

- T o hàm **saveBook()**

```
function saveBook(){  
  
    global $mainframe;  
    $row =& JTable::getInstance('book', 'Table');  
  
    if(!$row->bind(JRequest::get('post')))  
    {  
        JError::raiseError(500, $row->getError() );  
    }  
  
    $user =& JFactory::getUser();  
  
    $row->title = JRequest::getVar( 'title', '', 'post', 'string',  
JREQUEST_ALLOWRAW );  
    $row->author = JRequest::getVar( 'author', '', 'post', 'string',  
JREQUEST_ALLOWRAW );  
    $row->synopsis = JRequest::getVar( 'synopsis', '', 'post', 'string',  
JREQUEST_ALLOWRAW );  
    $row->content = JRequest::getVar( 'content', '', 'post', 'string',  
JREQUEST_ALLOWRAW );  
    $row->created = date( 'Y-m-d H:i:s' );  
    $row->created_by = $user->get('id');  
    $row->modified = date( 'Y-m-d H:i:s' );  
    $row->modified_by = 0;  
    $row-> published = JRequest::getVar( 'published', '', 'post', 'int',  
JREQUEST_ALLOWRAW );  
  
    if(!$row->store()){  
        JError::raiseError(500, $row->getError() );  
    }  
  
    $mainframe->redirect('index.php?option=com_book', 'Message Saved');  
}
```

11- Hi n th d li u

- M trang **admin.book.php** s a l i n i dung hàm **showBook** nh sau o n mã sau:

```
function showBook(){  
    $db =& JFactory::getDBO();  
    $query = " SELECT b.*, u.name AS postname, ul.name AS modifyname  
                FROM #__books AS b  
                LEFT JOIN #__users AS ul ON ul.id = b.modified_by  
                LEFT JOIN #__users AS u ON u.id = b.created_by ";  
  
    $db->setQuery( $query );  
    $rows = $db->loadObjectList();  
    if($db->getErrorNum()){  
        echo $db->stderr();  
        return false;  
    }  
    HTML_book::showBook($rows);  
}
```

- M t p tin **admin.book.html.php** s a l i n i dung hàm **showBook(\$rows)** nh sau

```
<?php  
function showBook($rows){  
    ?>  
    <form action="index.php" method="post" name="adminForm">  
        <table class="adminlist" cellpadding="1" width="100%">
```

```
<thead>
  <tr>
    <th width="5">#</th>
    <th width="5"><input type="checkbox" name="toggle" value=""
onclick="checkAll(<?php echo count($rows)?>)"></th>
    <th class="title">Title</th>
    <th width="1%" nowrap="nowrap" class="title">Published</th>
    <th width="1%" nowrap="nowrap" class="title">Publish Date</th>
    <th width="8%" nowrap="nowrap" class="title">Author</th>
    <th width="8%" nowrap="nowrap" class="title">Created Date</th>
    <th width="8%" nowrap="nowrap" class="title">Created by</th>
    <th width="8%" nowrap="nowrap" class="title">Modified Date</th>
    <th width="8%" nowrap="nowrap" class="title">Modified by</th>
    <th width="1%" nowrap="nowrap" class="title">ID</th>
  </tr>
</thead>
<?php
  for($i=0, $n=count($rows); $i < $n ; $i++)
  {
    $row = &$rows[$i];
    $checked      = JHTML::_('grid.id', $i, $row->id);
    $published    = JHTML::_('grid.published', $row, $i);
  ?>
  <tr>
    <td align="center"><?php echo $i+1; ?></td>
    <td align="center"><?php echo $checked?></td>
    <td><?php echo $row->title?></td>
    <td align="center"><?php echo $row->publish_date?></td>
    <td align="center"><?php echo $row->author?></td>
    <td align="center"><?php echo $row->created ?></td>
    <td align="center"><?php echo $row->created ?></td>
    <td align="center"><?php echo $row->postname?></td>
    <td align="center"><?php echo $row->modified?></td>
    <td align="center"><?php echo $row->modifyname?></td>
    <td align="center"><?php echo $row->id?></td>
  </tr>
  <?
  }
?>
</table>

<input type="hidden" name="option" value="com_book">
<input type="hidden" name="task" value="">
<input type="hidden" name="boxchecked" value="0">
</form>
<?php
}??>
```

12- Hình thức dữ liệu nâng cao

11.1- Tạo bảng search dữ liệu

- Mã nguồn [admin.book.html.php](#) sẽ in nội dung hàm `showBook($rows)` như sau

```
<?php
function showBook($rows){
  <table>
    <tr>
      <td align="left" width="100%">
        <?php echo JText::_('Filter'); ?>:
        <input type="text" name="search" id="search" value=""
class="text_area"  onchange="document.adminForm.submit();" />
```

```
<button onclick="this.form.submit();"><?php echo JText::_('Go' );  
></button>  
        <button onclick="document.getElementById('search').value='';  
this.form.submit();"><?php echo JText::_('Reset' ); ?></button>  
    </td>  
</tr>  
</table>  
<form action="index.php?option=com_book" method="post" name="adminForm">  
    <table class="adminlist" cellpadding="1" width="100%">  
        <thead>  
            <tr>  
                <th width="5%">#</th>  
                <th width="5%"><input type="checkbox" name="toggle" value=""  
onclick="checkAll(<?php echo count($rows)?>)"></th>  
                <th class="title">Title</th>  
                <th width="1%" nowrap="nowrap" class="title">Published</th>  
                <th width="1%" nowrap="nowrap" class="title">Publish Date</th>  
                <th width="8%" nowrap="nowrap" class="title">Author</th>  
                <th width="8%" nowrap="nowrap" class="title">Created Date</th>  
                <th width="8%" nowrap="nowrap" class="title">Created by</th>  
                <th width="8%" nowrap="nowrap" class="title">Modified Date</th>  
                <th width="8%" nowrap="nowrap" class="title">Modified by</th>  
                <th width="1%" nowrap="nowrap" class="title">ID</th>  
            </tr>  
        </thead>  
        <?php  
            for($i=0, $n=count($rows); $i < $n ; $i++)  
            {  
                $row = &$rows[$i];  
                $checked      = JHTML::_('grid.id', $i, $row->id);  
                $published    = JHTML::_('grid.published', $row, $i);  
            <?php  
                <tr>  
                    <td align="center"><?php echo $i+1; ?></td>  
                    <td align="center"><?php echo $checked?></td>  
                    <td><?php echo $row->title?></td>  
                    <td align="center"><?php echo $published?></td>  
                    <td align="center"><?php echo $row->author?></td>  
                    <td align="center"><?php echo $row->created ?></td>  
                    <td align="center"><?php echo $row->created ?></td>  
                    <td align="center"><?php echo $row->postname?></td>  
                    <td align="center"><?php echo $row->modified?></td>  
                    <td align="center"><?php echo $row->modifyname?></td>  
                    <td align="center"><?php echo $row->id?></td>  
                </tr>  
            <?php  
            }  
        <?php  
    </table>  
  
    <input type="hidden" name="option" value="com_book">  
    <input type="hidden" name="task" value="">  
    <input type="hidden" name="boxchecked" value="0">  
</form>  
<?php  
></pre>
```

- Đồng 1 nh

```
<form action="index.php?option=com_book" method="post" name="adminForm">
```

Giúp chúng ta quay v ứng component chúng ta ang s d ng

11.2 – T o các nút s p x p d li u theo giá tr t ng c t trên ph n hi n th

- M t p tin `admin.book.html.php` trong n i dung hàm `showBook($rows)`

Tìm dòng:

```
<th class="title">Title</th>
```

S a l i thành:

```
<th class="title">
<?php echo JHTML::_('grid.sort', 'Title', 'b.title', @$lists['order_Dir'],
@$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title">Published</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Published', 'b.published',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Publish Date</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Publish Date', 'b.publish_date',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Author</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Author', 'b.author', @$lists['order_Dir'],
@$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Created Date</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Created Date', 'b.created',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Created by</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Created by', 'b.created_by',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Modified Date</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', 'Modified Date', 'b.modified',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> Modified by</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', ' Modified by', 'b.modified_by',
@$lists['order_Dir'], @$lists['order'] ); ?>
</th>
```

Tìm dòng:

```
<th width="1%" nowrap="nowrap" class="title"> ID</th>
```

S a l i thành:

```
<th width="1%" nowrap="nowrap" class="title">
<?php echo JHTML::_('grid.sort', ' ID', 'b.id', @$lists['order_Dir'],
@$lists['order'] ); ?>
</th>
```

Ph ng th c:

```
JHTML::_('grid.sort', string $title, string $order, [string $direction =
'asc'], [string $selected = 0], [string $task = NULL]);
```

T ng ng

```
$objJHTML = new JHTMLGrid()
$objJHTML->(string $title, string $order, [string $direction = 'asc'],
[string $selected = 0], [string $task = NULL])
```

Tr v : th <a> có kèm m t hàm javascript th ng dùng s p x p d li u trong các c t hi n th

11.3 – Thêm hidden textbox l u giá tr c g i khi nh n link s p x p

- M t p tin **admin.book.html.php** trong n i dung hàm **showBook(\$rows)**

Tìm dòng:

```
<input type="hidden" name="option" value="com_book">
<input type="hidden" name="task" value="">
<input type="hidden" name="checked" value="0">
```

Thêm vào:

```
<input type="hidden" name="option" value="com_book">
<input type="hidden" name="task" value="">
<input type="hidden" name="checked" value="0">
<input type="hidden" name="filter_order" value="<?php echo $lists['order']; ?>"
/>
<input type="hidden" name="filter_order_Dir" value="<?php echo
$lists['order_Dir']; ?>" />
```

11.4 – L y giá tr g i qua khi nh n link s p x p hay nh n nút ‘Go’ khi mu n tìm ki m

- M t p tin **admin.book.php** trong n i dung hàm **showBook()**

Tìm dòng

```
$db =& JFactory::getDBO();
```

Thêm vào:

```
$db =& JFactory::getDBO();  
$filter_order = JRequest::getVar('filter_order');  
$filter_order_Dir = JRequest::getVar('filter_order_Dir');  
$search = JRequest::getVar('search');
```

12.5 – Tìm kiếm nội dung theo title

- Mở tệp tin **admin.book.php** trong nội dung hàm **showBook()**

Tìm dòng:

```
$search = JRequest::getVar('search');
```

Thêm vào:

```
$search = JRequest::getVar('search');  
$where = array();  
if ($search) {  
    $where[] = 'LOWER(b.title) LIKE ' . $db->Quote( '%' . $db->getEscaped(  
$search, true ) . '%' , false );  
}  
$where = count( $where ) ? ' WHERE ' . implode( ' AND ', $where ) : '';
```

Tìm dòng:

```
$query = " SELECT b.*, u.name AS postname, ul.name AS modifyname  
FROM #__books AS b  
LEFT JOIN #__users AS ul ON ul.id = b.modified_by  
LEFT JOIN #__users AS u ON u.id = b.created_by ";
```

Thêm vào:

```
$query = " SELECT b.*, u.name AS postname, ul.name AS modifyname  
FROM #__books AS b  
LEFT JOIN #__users AS ul ON ul.id = b.modified_by  
LEFT JOIN #__users AS u ON u.id = b.created_by ";  
$query = $query . $where;
```

- Chọn thể loại cần tìm kiếm

12.6 – Truy cập giá trị vào hidden textbox

- Mở tệp tin **admin.book.php** trong nội dung hàm **showBook()**

Tìm dòng:

```
$rows = $db->loadObjectList();
```

Thêm vào:

```
$rows = $db->loadObjectList();  
  
// table ordering  
$lists = array();  
$lists['order_Dir'] = $filter_order_Dir;  
$lists['order'] = $filter_order;  
// search filter  
$lists['search'] = $search;
```

Tìm dòng:

```
HTML_book::showBook($rows);
```

S ắp xếp thành

```
HTML_book::showBook($rows,$lists);
```

- Mã nguồn `admin.book.html.php` sử dụng hàm `showBook($rows)` thành `showBook($rows,$lists)`
- Trong hàm `showBook($row,$lists)`

Tìm dòng:

```
<input type="text" name="search" id="search" value="" class="text_area"
onchange="document.adminForm.submit();" />
S a thành
<input type="text" name="search" id="search" value="<?php echo
$lists['search'];?>" class="text_area" onchange="document.adminForm.submit();"
/>
```

Tìm dòng:

```
<input type="hidden" name="filter_order" value="" />
<input type="hidden" name="filter_order_Dir" value="" />
S a thành
<input type="hidden" name="filter_order" value="<?php echo $lists['order']; ?>"
/>
<input type="hidden" name="filter_order_Dir" value="<?php echo
$lists['order_Dir']; ?>" />
```

12.7- Tạo pop up khi nhấp link trên trang

- Mã nguồn `admin.book.php` trong nội dung hàm `showBook()`

Tìm dòng:

```
$where = count( $where ) ? ' WHERE ' . implode( ' AND ', $where ) : '';
```

Thêm vào:

```
$where = count( $where ) ? ' WHERE ' . implode( ' AND ', $where ) : '';
$orderby = ' ORDER BY ' . $filter_order . ' ' . $filter_order_Dir;
```

Tìm dòng:

```
$query = $query . $where;
```

S a thành:

```
$query = $query . $where . $orderby;
```

13- Chức năng quản lý

13.1- Tạo Edit link & title cho Link

- Mã nguồn `admin.book.html.php` trong nội dung hàm `editBook($rows,$lists)`

Tìm dòng:

```
$checked = JHTML::_('grid.id', $i, $row->id);
```

Thêm vào:

```
$checked = JHTML::_('grid.id', $i, $row->id);
$link = JRoute::_('index.php?option=com_book&task=edit&cid[]=$row->id');
```

Tìm dòng:

```
<td><?php echo $row->title?></td>
```

S a thành:

```
<td>
<span class="editlinktip hasTip" title="<?php echo JText::_('Edit Book');?>::
```



```
<?php echo $row->title; ?>">  
<a href="<?php echo $link; ?>"><?php echo $row->title?></a>  
</span>  
</td>
```

13.3- T o hàm editBook

- M t p tin **admin.book.php**

Tìm dòng:

```
$task = JRequest::getCmd('task');  
switch($task){
```

Thêm vào:

```
$task = JRequest::getCmd('task');  
  
switch($task){  
    case 'edit':  
        editBook();  
        break;
```

*Thêm hàm **editBook()***

```
function editBook(){  
    $db =& JFactory::getDBO();  
  
    $cid = JRequest::getVar('cid',array(0),'','array');  
    JFactoryHelper::toInteger($cid, array(0));  
    $id = $cid[0];  
    $row =& JTable::getInstance('book', 'Table');  
    $row->load( $id);  
  
    $lists = array();  
    $lists['published'] = JHTML::_('select.booleanlist', 'published',  
'class="inputbox"');  
  
    HTML_book::editBook(&$lists, &$row);  
}
```

13.4 – T o toolbar cho ch c n ng Edit

- M t p tin **toolbar.book.php**

Tìm dòng:

```
switch ( $task )  
{  
case "add" : TOOLBAR_book::_NEW(); break;
```

Thêm vào:

```
switch ( $task )  
{  
case "add" : TOOLBAR_book::_NEW(); break;  
case "edit" : TOOLBAR_book::_EDIT(); break;
```

- M t p tin **toolbar.book.html.php** thêm hàm **_EDIT()**

Thêm vào:

```
function _NEW(){  
    JToolBarHelper::title( JText::_('Vina Book:Add' ), 'generic.png' );  
    JToolBarHelper::save();  
    JToolBarHelper::apply();  
    JToolBarHelper::cancel();  
    JToolBarHelper::archiveList();
```

```
}  
S ử dụng thành:  
function _NEW(){  
    JToolBarHelper::title( JText::_('Vina Book:Add' ), 'generic.png' );  
    JToolBarHelper::save();  
    JToolBarHelper::apply();  
    JToolBarHelper::cancel();  
    JToolBarHelper::archiveList();  
}  
  
function _EDIT(){  
    JToolBarHelper::title( JText::_('Vina Book:Edit' ), 'generic.png' );  
    JToolBarHelper::save();  
    JToolBarHelper::apply();  
    JToolBarHelper::cancel();  
    JToolBarHelper::archiveList();  
}
```

13.5- T ạo hàm editBook(\$lists,\$row)

- M ột p erson tin [admin.book.html.php](#) thêm hàm editBook(\$lists,\$row)

```
<?php  
function editBook($lists,$row){  
    //JRequest::setVar( 'hidemainmenu', 1 );  
    $editor    =& JFactory::getEditor();  
    JHTML::_('behavior.calendar');  
  
    ?>  
    <script type="text/javascript"  
src="includes/js/calendar/calendar.js"></script>  
    <script type="text/javascript" src="includes/js/calendar/lang/calendar-  
en.js"></script>  
  
    <form action="index.php" method="post" enctype="multipart/form-data"  
name="adminForm">  
        <table class="admintable">  
            <tr>  
                <td class="key">  
  
                    <label for="message">  
                        <?php echo JText::_('Title' ); ?>:                </label>  
                </td>  
                <td >  
                    <input class="text_area" type="text" name="title" id="title"  
size="100" maxlength="255" value="<?=$row->title;?>">                </td>  
            </tr>  
            <tr>  
                <td class="key">  
                    <label for="message">  
                        <?php echo JText::_('Picture' ); ?>:                </label>  
                </td>  
                <td >  
                    <input class="text_area" type="file" name="picture" id="title"  
size="80" maxlength="255">                </td>  
            </tr>  
            <tr>  
                <td class="key"><label for="message">  
                    <?php echo JText::_('Author' ); ?>:                </label></td>
```

```
<td ><input class="text_area" type="text" name="author" id="author"
size="50" maxlength="255" value="<?=$row->author;?>"></td>
</tr>
<tr>
<td class="key"><label for="message">
<?php echo JText::_('Date publish' ); ?>: </label></td>
<td >
<input class="text_area" type="text" name="publish_date"
id="publish_date" size="25" maxlength="255" value="<?=$row->publish_date;?>"
<a href="#" onclick="return showCalendar('publish_date', '%Y-%m-
%d');">

</a>
</td>
</tr>
<tr>
<td class="key"><label for="message">
<?php echo JText::_('Synopsis' ); ?>: </label></td>
<td ><?php
echo $editor->display('synopsis',$row->synopsis,'100%',
'200','60','4'); ?></td>
</tr>
<tr>
<td class="key">
<label for="message">
<?php echo JText::_('Book Content' ); ?>: </label>
</td>
<td ><?php
echo $editor->display('content',$row->content,'100%',
'300','60','6'); ?></td>
</tr>
<tr>
<td class="key">
<label for="message">
<?php echo JText::_('Published' ); ?>:
</label>
</td>
<td >
<?php
echo $lists['published']; ?>
</td>
</tr>
</table>
<input type="hidden" name="option" value="com_book" />
<input type="hidden" name="task" value="" />
<input type="hidden" name="task1" value="edit" />
<input type="hidden" name="id" value="<?php echo $row->id?>" />
<input type="hidden" name="cid[]" value="<?php echo $row->id; ?>" />
</form>
<?php
}
```

13.6- Chức năng hàm saveBook()

- Mã nguồn **admin.book.php** xem hàm saveBook() chức năng như sau:

```
function saveBook(){
    global $mainframe;
```

```
$row =& JTable::getInstance('book', 'Table');

if(!$row->bind(JRequest::get('post'))
{
    JError::raiseError(500, $row->getError() );
}

$user =& JFactory::getUser();
$taskOption = JRequest::getVar( 'task1','');

$row->title = JRequest::getVar( 'title', '', 'post', 'string',
JREQUEST_ALLOWRAW );
$row->author = JRequest::getVar( 'author', '', 'post', 'string',
JREQUEST_ALLOWRAW );
$row->synopsis = JRequest::getVar( 'synopsis', '', 'post', 'string',
JREQUEST_ALLOWRAW );
$row->content = JRequest::getVar( 'content', '', 'post', 'string',
JREQUEST_ALLOWRAW );

if($taskOption == 'edit'){
    $row->modified = date( 'Y-m-d H:i:s' );
    $row->modified_by = $user->get('id');
}else{
    $row->created = date( 'Y-m-d H:i:s' );
    $row->created_by = $user->get('id');
}
$row->content = JRequest::getVar( 'content', '', 'post', 'int',
JREQUEST_ALLOWRAW );

if(!$row->store()){
    JError::raiseError(500, $row->getError() );
}

$mainframe->redirect('index.php?option=com_book', 'Message Saved');
}
```

14- Xóa dữ liệu

14.1- Thêm chức năng xóa

- Mã tệp tin **admin.book.php**

Tìm dòng:

```
switch($task){
    case 'edit':
        editBook();
        break;
```

Thêm vào:

```
case 'remove':
    removeBook();
    break;
```

14.2- Tạo hàm removeBook()

- Mã tệp tin **admin.book.php** thêm hàm **removeBook()** với nội dung sau:

```
function removeBook()
{
```

```
global $mainframe;

$db =& JFactory::getDBO();

$cid = JRequest::getVar('cid',array(),'','array');

JArrayHelper::toInteger($cid);

if (count( $cid )) {

    $cids = implode( ',', $cid );

    $query = 'DELETE FROM #__books'
        . ' WHERE id IN ( ' . $cids . ' )'
        ;

    $db->setQuery( $query );
    if (!$db->query()) {
        echo "<script> alert('".$db->
            getErrorMsg(true)."' );
            window.history.go(-1); </script>\n";
    }
}

$mainframe->redirect("index.php?option=com_book");
}
```

14.3- Tạo hidden textbox chứa thông tin nhúng dòng s và xóa

- Mã nguồn `admin.book.html.php` trong hàm `showBook($rows,$lists)`

Tìm dòng:

```
<input type="hidden" name="task" value="">
<input type="hidden" name="filter_order" value="<?php echo $lists['order'];
?>"/>
<input type="hidden" name="filter_order_Dir" value="<?php echo
$lists['order_Dir']; ?>" />
```

Thêm vào:

```
<input type="hidden" name="task" value="">
<input type="hidden" name="filter_order" value="<?php echo $lists['order'];
?>"/>
<input type="hidden" name="filter_order_Dir" value="<?php echo
$lists['order_Dir']; ?>" />
<input type="hidden" name="checked" value="0" />
```

15- Thay đổi trạng thái bài viết (Publish or Unpublish)

- Mã nguồn `admin.book.php`

Tìm dòng:

```
case 'remove':
    removeBook();
    break;
```

Thêm vào:

```
case 'publish':
    changeBook(1);
    break;
```

```
case 'unpublish':  
    changeBook(0);  
    break;  
  
case 'remove':  
    removeBook();  
    break;
```

- Tạo hàm **changeBook(\$state=0)**

```
function changeBook( $state=0 )  
{  
    global $mainframe;  
  
    $db =& JFactory::getDBO();  
  
    $cid = JRequest::getVar( 'cid' ,array(),'', 'array' );  
    JFactoryHelper::toInteger($cid);  
  
    if (count( $cid ) < 1) {  
        $action = $state ? 'publish' : 'unpublish';  
        JError::raiseError(500, JText::_('Select an item to' . $action, true ) );  
    }  
  
    $cids = implode( ',', $cid );  
  
    $query = 'UPDATE #__books' .  
            ' SET published = ' . (int) $state .  
            ' WHERE id IN ( ' . $cids . ' )';  
  
    $db->setQuery( $query );  
    if (!$db->query()) {  
        JError::raiseError(500, $db->getErrorMessage() );  
    }  
  
    $mainframe->redirect( 'index.php?option=com_book' );  
}
```

16- Upload tệp tin

- upload hình trong Joomla chúng ta có thể sử dụng những hình ảnh upload bình thường vì tệp tin PHP
- upload tệp hình và resize hình theo kích thước mong muốn chúng ta sẽ chú ý đến các hàm sau

16.1- Hàm kiểm tra phân loại tệp tin upload

- Mã tệp tin **admin.book.php** thêm hàm **check_extnt_file(\$file_name,\$extnt_file)**

check_extnt_file(\$file_name,\$extnt_file)

\$file_name: Tên tệp tin upload (VD: abc.jpg)

\$extnt_file: Kiểu tệp tin cho phép upload (VD : "jpg/gif/png/JPG/GIF/PNG")

Source:

```
function check_extnt_file($file_name,$extnt_file)  
{
```

```
$extent_file= $extent_file;//"jpg|gif";  
if(!preg_match("/\\\\" . $extent_file . ")$/", $file_name)){  
    return false;//0  
}else{  
    return true;// 1  
}  
}
```

16.2- Hàm kiểm tra phân loại tệp tin upload

- Mã tệp tin **admin.book.php** thêm hàm **copy_and_change_filename(\$file_input_tmp, \$file_input_name, \$dir_upload, \$prefix)**

copy_and_change_filename(\$file_input_tmp, \$file_input_name, \$dir_upload, \$prefix)

\$file_input_tmp: thư mục chứa tệp tin khi upload lên server

(VD: \$file_input_tmp = \$_FILES['picture']['tmp_name'];)

\$file_input_name: Tên tệp tin upload

(VD: \$file_input_name = \$_FILES['picture']['name'];)

\$dir_upload: Thư mục upload trên server

(VD: \$dir_upload = '../administrator/components/com_book/books/';)

\$prefix: Tiền tố tệp tin dùng thay thế, tránh trùng lặp tên

(VD: \$prefix = 'book_' . time();)

Source:

```
function copy_and_change_filename($file_input_tmp, $file_input_name,  
$dir_upload, $prefix)  
{  
  
    $source = $file_input_tmp;  
    $part=explode(".", $file_input_name);  
    $file_name = $prefix . "." . $part[1];  
    $dest = $dir_upload . $file_name;  
    move_uploaded_file( $source, $dest );  
    return $file_name;  
}
```

16.3- Hàm thay đổi kích thước tệp tin ảnh

- Mã tệp tin **admin.book.php** thêm hàm **copy_and_resize(\$originalName,\$dirUpload,\$dirFix,\$widthSize,\$heightSize)**

copy_and_resize(\$originalName,\$dirUpload,\$dirFix,\$widthSize,\$heightSize)

\$originalName: tên hình ảnh

(VD: \$originalName = 'abc.jpg')

\$dirUpload: thư mục chứa tệp tin gốc:

(VD: \$dirUpload = '../administrator/components/com_book/books/';)

\$dirFix: thư mục hình ảnh sau khi thay đổi kích thước sẽ lưu vào

(VD: \$dirFix = '../administrator/components/com_book/books/fix/';)

\$widthSize: Chiều rộng tối đa cho phép (VD: \$widthSize: 170)

\$heightSize: Chi u cao t i a cho phép (VD: \$ heightSize: 170)

Source:

```
function
copy_and_resize($originalName,$dirUpload,$dirFix,$widthSize,$heightSize)
{
    $original      = $dirUpload . $originalName;
    $fix           = $dirFix . $originalName;
    list($width, $height,$type) = getimagesize($original) ;

    if($width <= $widthSize && $height <= $heightSize)
    {
        $ChoiceWith  = $width;
        $ChoiceHeight = $height;
    }else{
        if($width > $height && $width > $widthSize)
        {
            $radioWidth      = $widthSize/$width;
            $ChoiceWith  = $radioWidth * $width;
            $ChoiceHeight = $radioWidth * $height;
        }

        if($width > $height && $width < $widthSize)
        {
            $ChoiceWith  = $width;
            $ChoiceHeight = $height;
        }

        if($height > $width && $height > $heightSize)
        {
            $radioHeight = $heightSize/$height;
            $ChoiceWith  = $radioHeight * $width;
            $ChoiceHeight = $radioHeight * $height;
        }
        if($height > $width && $height < $heightSize)
        {
            $ChoiceWith  = $width;
            $ChoiceHeight = $height;
        }
    }

    if($width == $height)
    {
        $radioWidth      = $widthSize/$width;
        $ChoiceWith  = $radioWidth * $width;
        $ChoiceHeight = $radioWidth * $height;
    }

    if($type == 2)
    {
        @header("Content-type: image/jpeg");
        $tn = imagecreatetruecolor($ChoiceWith, $ChoiceHeight) ;
        $image = imagecreatefromjpeg($original) ;
        imagecopyresampled($tn, $image, 0, 0, 0, 0, $ChoiceWith,
$ChoiceHeight, $width, $height) ;
        imagejpeg($tn, $fix, 100) ;
    }

    if($type == 1)
    {
```



```
        @header("Content-type: image/gif");
        $tn = imagecreatetruecolor($ChoiceWidth, $ChoiceHeight) ;
        $image = imagecreatefromgif($original) ;
        imagecopyresampled($tn, $image, 0, 0, 0, 0, $ChoiceWidth,
$ChoiceHeight, $width, $height) ;
        imagegif($tn, $fix) ;
    }

    if($type == 3)
    {
        @header("Content-type: image/png");
        $tn = imagecreatetruecolor($ChoiceWidth, $ChoiceHeight) ;
        $image = imagecreatefrompng($original) ;
        imagecopyresampled($tn, $image, 0, 0, 0, 0, $ChoiceWidth,
$ChoiceHeight, $width, $height) ;
        imagepng($tn, $fix, 100) ;
    }
}
```

16.4- Upload hình ảnh trong chức năng add

- Tạo thư mục mới `\joomla\administrator\components\com_book\books` và `\joomla\administrator\components\com_book\books\fix`
- Mở tệp tin `admin.book.php` trong hàm `saveBook()`

Tìm kiếm mã:

```
if($taskOption == 'edit'){
    $row->modified = date( 'Y-m-d H:i:s' );
    $row->modified_by = $user->get('id');
}else{
    $row->created = date( 'Y-m-d H:i:s' );
    $row->created_by = $user->get('id');
}
```

Sửa thành:

```
if($taskOption == 'edit'){
    $row->modified = date( 'Y-m-d H:i:s' );
    $row->modified_by = $user->get('id');
}else{
    $picture = $_FILES['picture']['name'];
    // Kiểm tra xem có upload hình hay không
    if($picture != '')
    {
        //Kiểm tra phân loại của tập tin upload
        if(check_extnt_file($picture,"jpg|gif|png|JPG|GIF|PNG") )
        {
            $file_input_tmp = $_FILES['picture']['tmp_name'];
            $file_input_name = $_FILES['picture']['name'];
            $dir_upload = '../administrator/components/com_book/books/';
            $prefix = 'book_' . time();
            //Upload hình gốc
            $picture = copy_and_change_filename($file_input_tmp,
$file_input_name, $dir_upload, $prefix);

            //Upload hình vào thư mục small
            $originalName = $picture;
            $dirUpload = $dir_upload;
            $dirFix = '../administrator/components/com_book/books/fix/';
            $widthSize = 170;
            $heightSize = 170;
```

```
        copy_and_resize($originalName,$dirUpload,$dirFix,$widthSize,$heightSize);

    }//if(check_extent_file($file_name,$extent_file))

    }//if($picture!= '')

    $row->created = date( 'Y-m-d H:i:s' );
    $row->created_by = $user->get('id');
    $row->picture = $picture;
}
```

16.5- Upload hình ảnh trong chức năng edit

- Mở tệp tin **admin.book.php** trong hàm **saveBook()**

Tìm kiếm mã:

```
if($taskOption == 'edit'){
    $row->modified = date( 'Y-m-d H:i:s' );
    $row->modified_by = $user->get('id');
}else{
    ...
}
```

Sửa thành:

```
if($taskOption == 'edit'){
    $picture = $_FILES['picture']['name'];
    $picture_current= $_POST['picture_current'];
    if($picture == ''){
        $picture = $picture_current;
    }else{
        if(check_extent_file($picture,"jpg|gif|bmp|JPG|GIF|BMP") )
        {
            $urlOrigin = '../administrator/components/com_book/books/' .
            $picture_current;
            unlink($urlOrigin);
            $urlSmall = '../administrator/components/com_book/books/fix/' .
            $picture_current;
            unlink($urlSmall);

            $file_input_tmp = $_FILES['picture']['tmp_name'];
            $file_input_name = $_FILES['picture']['name'];
            $dir_upload = '../administrator/components/com_book/books/';
            $prefix = 'book_' . time();
            //Upload hình gốc
            $picture = copy_and_change_filename($file_input_tmp,
            $file_input_name, $dir_upload, $prefix);

            //Upload hình vào thư mục small
            $originalName = $picture;
            $dirUpload = $dir_upload;
            $dirFix = '../administrator/components/com_book/books/fix/';
            $widthSize = 170;
            $heightSize = 170;

            copy_and_resize($originalName,$dirUpload,$dirFix,$widthSize,$heightSize);

            }//if(check_extent_file($file_name,$extent_file))
            else{
                $picture = $picture_current;
            }
        }
    }
```

```
}  
  
$row->modified = date( 'Y-m-d H:i:s' );  
$row->modified_by = $user->get('id');  
$row->picture = $picture;  
  
}else{  
    . . .  
}
```

- M t p tin **admin.book.html.php** trong hàm **editBook()**

Tìm dòng:

```
<input type="hidden" name="option" value="com_book" />  
<input type="hidden" name="task" value="" />  
<input type="hidden" name="task1" value="edit" />
```

Thêm vào:

```
<input type="hidden" name="option" value="com_book" />  
<input type="hidden" name="task" value="" />  
<input type="hidden" name="task1" value="edit" />  
<input type="hidden" name="picture_current" value="<?php echo $row->picture?>" />
```

17. Hi n th d li u t i Front-End

- M t p tin **book.php** trong th m c \components Front-End

Thêm vào:

```
<?php  
defined( '_JEXEC' ) or die( 'Restricted access' );  
echo '<div class="componentheading">Vina Book</div>';  
  
jimport('joomla.application.helper');  
require_once(JApplicationHelper::getPath('html'));  
JTable::addIncludePath(JPATH_ADMINISTRATOR.  
DS.'components'.DS.$option.DS.'tables');  
  
switch( $task ){  
    default:  
        showPublishedBook($option);  
        break;  
}  
  
function showPublishedBook($option)  
{  
    $db =& JFactory::getDBO();  
  
    $query = "SELECT * FROM #__books WHERE published= '1' ORDER BY id DESC";  
    $db->setQuery( $query );  
    $rows = $db->loadObjectList();  
  
    if ( $db->getErrorNum() )  
    {  
        echo $db->stderr();  
        return false;  
    }  
    HTML_book::showBook($rows, $option);  
}
```

?>

- Tạo tệp tin **book.html.php** trong thư mục `\components` Front-End tạo hàm **showBook(\$rows, \$option)**

```
<?php
class HTML_book
{
    function showBook($rows, $option)
    {
        ?>
        <table>
        <?php
        foreach($rows as $row)
        {
            $link = 'index.php?option='.$option.'&id='.$row->id . '&task=view';
            $picture = '';
            if($row->picture != ''){
                $linkPicture = 'administrator/components/com_book/books/fix/' .
                $row->picture;
                $picture = '';
            }
            echo '
            <tr>
            <td>
                <a href="' . $link . '" class="contentheading">'.
                $row->title . '</a>
                <br>
                ' . $picture . '
                <strong>Author</strong>: ' . $row->author . '
                <br />
                <strong>Publish date</strong>: ' . $row->publish_date . '
                <br />
                <strong>Synopsis</strong>: ' . $row->synopsis . '
            </td>
            </tr>
            ';
        }
        ?>
    </table>

    <?php
    }
}
?>
```