

Views

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Views

Presentation Layer

Display the desired output from the request to the user.

Usually in HTML

- □ Can also be...
 - □ XML
 - JSON
 - RSS
 - Files and Streaming Files

CakePHP Template Files

- Written in plain PHP
- .ctp ending
 - CakePHP supports other templating languages such as Smarty or Twig

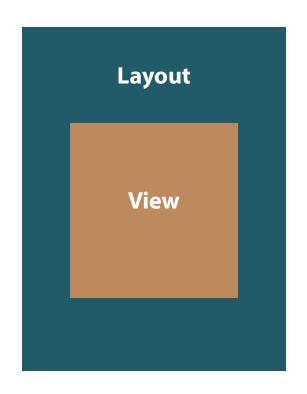
Parts of the View Layer

View Layer Consists of 4 Parts

- layouts
 - The main layout for the website
- views
 - Displays a unique response based on the action being run
- elements
 - Reusable code rendered inside of a view
- helpers
 - Provides view logic and helps build code for forms, pagination, etc.

Layout

- Presentation Layer
 - Does not include the views
- Contents
 - Layout file contains the actual https://www.ncbo.nih.gov/ h
- Wraps around your views
- Location
 - /app/View/Layouts/
- Default Layout
 - default.ctp
 - /app/View/Layouts/default.ctp
- Creating New Layout
 - home.ctp
 - app/View/Layouts/home.ctp



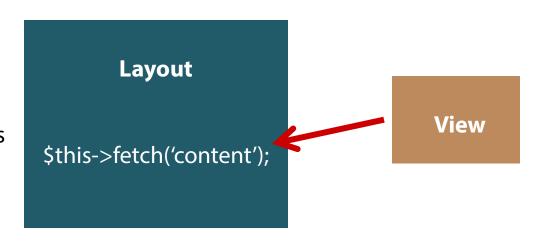
Rendered View

'content' Block

- Example
 - □ \$this->fetch('content');
- Contains the rendered views
 - index.ctp
 - view.ctp

Location?

- This 'content' block can be placed anywhere in the Layout
 - Typically in the main section of your layout



Page Title

Individual Page Title

- The layout <title> tag can be set on any page.
- Using a specific a variable in the action of a controller or on the view template itself

Variable Name

- title_for_layout
- Example
 - sthis->set('title_for_layout', 'Our List of Delicious Cakes');

CSS and Images

CSS and Images

- Styles and images can be added to the site
- Located:
 - □ /app/webroot/css CSS Folder
 - /app/webroot/img Image Folder

Linking CSS

- Example
 - \$this->Html->css('nameOfStyleSheet');
 - No need to add the .css
- Called in the layout template or the view template.
 - The view template call has a couple more parameters and we will cover that later in this module.

Displaying images

- Example
 - \$\square\$ \$\\$\text{this->Html->image('nameOfImage.jpg')}\$
- Used in any view template or layout
- This will be covered in more depth later in this module

Multiple Layouts

Different Layouts

- Sometimes you need different layouts for different occasions
 - Sign up form, promotional, blog template

Layout Choice

- Can be set in the controller or the view template file
- Example
 - sthis->layout = 'promotional';
 - sthis->layout = 'default';

Views

Display Specific Content

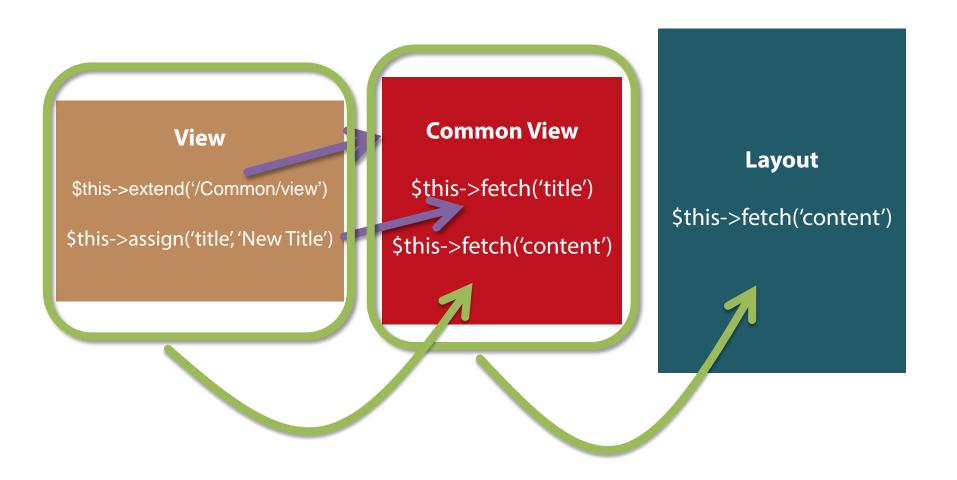
- Specific content for a specific page
- We created a few in our catalog site
- Location
 - ¬ /app/Views/ControllerName/view_name.ctp
- View names are based on the controller action
- Override the default view by using
 - sthis->render('view_name');

Extending Views

Extending Views

- Common views can be extended for use with detailed views
 - Detailed views are the regular views associated with the controller actions
- Located in the app/Views directory inside the Common folder
 - app/Views/Common/view.ctp
- Example of Common View
 - Same header layout for all of the page views, the only difference is the title
 - Example
 - \$this->fetch('content') mandatory for all common views
 - sthis->fetch('title');
- Detailed View
 - Extend the common view
 - Assign the title
 - Example
 - sthis->extend('/Common/view');
 - \$this->assign('title', 'New Title Name');

Extending Views – Visual Representation



Extending CSS

Specific Page/View CSS

- The layout contains a fetch call for CSS.
 - sthis->fetch('css');
- Normally in a view template you would "assign" the css
- Different Call
 - This changed in version 2.4
 - sthis->Html->css('cssFile', null, array('inline' => false));

Elements

Think Reusability

- Bits of Code
 - Available on different pages
 - Different locations
- Examples:
 - Sub Navigation, Quote Box, Ads

Location

- app/View/Elements/
- Template file (.ctp just like all other view templates)

Using Elements

In Your View

- Call the element method and pass as the parameter your element view name
- Example
 - echo \$this->element('quote_box');

Passing Variables into an Element

- A second parameter can be passed into the element method
- Associated array
 - □ key = the name of the variable
 - □ value = variable content
- Example
 - cho \$this->element('quote_box', array('quote' => 'CakePHP is awesome!');
 - echo \$quote;

Helpers

What Are Helpers?

- "Helpers are component-like classes for the presentation layer of [our] application" – CakePHP Site
- They help create "well-formed markup"
- Basically they produce nuggets of code that we constantly use.

Include in Controller

- All helpers need to be included in the Controller.
- Set the variable \$helpers in either the current controller or the AppController
- Example
 - public \$helpers = array('Form', 'Html')

Helpers

Use

- We have used some of these Helpers throughout our Catalog site.
- CakePHP has a number of Helpers, here is a list of them with the parameter value:
 - CacheHelper (Cache)
 - FormHelper (Form)
 - HtmlHelper (Html)
 - JsHelper (Js)
 - NumberHelper (Number)
 - Paginator special scenario
 - □ RSS (Rss)
 - SessionHelper (Session)
 - TextHelper (Text)
 - TimeHelper (Time)

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 - TextHelper (Text)
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HtmlHelper

Basic Function of the HtmlHelper

- The HtmlHelper generates code that is "well-formated" and used often.
- Helps with tags we often forget the syntax to
 - For Example: Style sheets We know it's a link tag, but does the link tag take a "href" for the source file or a "src"?

Lots of Methods

- The HtmlHelper has a lot of helpful methods, but we are only going to cover the following:
 - □ CSS
 - image
 - script
- We will cover the basics of each

Link to HtmlHelpers

http://book.cakephp.org/2.0/en/core-libraries/helpers/html.html

HtmlHelper - CSS

Updated

- Method has changed in version 2.4
 - This will not work with the current version of CakePHP we are working with.
 - If you have version 2.3 installed please refer to the segment on Views earlier in this module.
- □ Information below is for the 2.4 version.

Takes One or Two Parameters

Focus only on the first parameter, second is optional

First Paramenter

- CSS file name or an array of CSS file names
 - This is relative to the app/webroot/css folder
- Example
 - echo \$this->Html->css('styleSheet'); // .css file extention not needed
 - echo \$this->Html->css(array('menus', 'layout')); // .css file extention not needed
- Output
 - </

HtmlHelper - Image

Parameters

- First string path to the image
 - This is relative to the app/webroot/img folder
- Second optional associated array of options (html attributes)

Example

echo \$this->Html->image('chocCake.jpg', array('alt' => 'Chocolate Cake');

Output

HtmlHelper - Script

Similar to the CSS Method

Parameters

- First String to a single JS file, or an array of JS files.
 - This is relative to the app/webroot/js folder
 - Will also allow for directories outside webroot/js folder
 - Can also take a path to a remote URL
- Second optional associated array of options (html attributes)
- We will only focus on the first parameter

Example

- echo \$this->Html->script("scripts");
- echo \$this->Html->script("/newJSDirectory/scripts");
- echo \$this->Html->script("http://www.somesites.com/jsFile.js");
 - Notice you must include the extention

Output

c <script type="text/javascript" src="/js/scripts.js"></script>

FormHelper

Basic Function of the FormHelper

- The FormHelper generates the needed code for form creation
- Creates forms quickly
- Streamlines validation, re-population and layout.

Lots of Methods

- The FormHelper has a lot of methods. We will be covering the following:
 - create
 - end
 - hidden
 - password
 - input
- We will cover the general basics of each of them

Link to FormHelper

http://book.cakephp.org/2.0/en/core-libraries/helpers/form.html

FormHelper - Create

Parameters

- First optional string model name
- Second optional associated array of options

Defaults

Form method defaults to 'post'

Example

- General Add or Edit form with Model
 - □ echo \$this->Form->create("Items");

Output

- <form id="ItemAddForm" method="post" action="/items/add">
- If Edit form
 - <form id="ItemEditForm" method="post" action="/items/edit/5">
 - <input type="hidden" name="_method" value="PUT" />

FormHelper - End

Single Parameter Optional

- String name for submit button or
- Associated array of options

Example

- echo \$this->Form->end();
- echo \$this->Form->end("Add Item");

Output

```
□ </form>
```

FormHelper - Hidden

Parameters

- First string field name
- Second optional associated array of options

Example

echo \$this->Form->hidden("id");

Output

<input name="data[Item][id]" value="16" id="ItemId" type="hidden" />

FormHelper - Password

Parameters

- First string field name
- Second optional associated array of options

Example

echo \$this->Form->password("password");

Output

<input name="data[User][password]" value="" id="UserPassword"
type="password" />

Parameters

- First string field name
- Second optional associated array of options

Basic Understanding

- Output of an input method
 - div container
 - label tag
 - input tag
 - error element (if applicable)

Basic Understanding Cont'd

- The input method determines what type of input you need based on the field that is provided (first parameter).
- Below is a list of associations based on column type

Column Type	Form Field
string (char, varchar, etc.)	text
boolean, tinyint(1)	checkbox
text	textarea
text (field name of password, passwd, psword)	password
text (field name of email)	email
text (field name of tel, telephone, phone)	tel
date	day, month, and year selects
datetime	day, month, year, hour, minute, and meridian selects
time	hour, minute, and meridian selects

Input Options

- Optional
- Associated array, key/value pairs
- Below is a list of a few different types of options available. The full list can be found here
 - http://book.cakephp.org/2.0/en/core-libraries/helpers/form.html#options

Options List

- Type Force the type of input to be used
 - Example 'type' => 'email'
- Label provide personal text for the label tag
 - Example 'label' => 'First Name'
- Default set the default value of the field
 - Example 'default' => 'Chocolate Cake'
- Selected set a selected option based on the value provided
 - □ Example 'selected' => '3'
- Rows, Cols set the rows and columns of a text area
 - Example 'rows' => '5', 'cols' => '10'

Example – Add an Item Form

```
<?php
echo $this->Form->create('Item');
echo $this->Form->input('category_id');
echo $this->Form->input('title');
echo $this->Form->input('year');
echo $this->Form->input('length');
echo $this->Form->input('description', array('rows' => '5'));
echo $this->Form->end('Add Item');
?>
```

Example – Edit an Item Form

```
<?php
echo $this->Form->create('Item');
echo $this->Form->input('category_id');
echo $this->Form->input('title');
echo $this->Form->input('year');
echo $this->Form->input('length');
echo $this->Form->input('description', array('rows' => '5'));
echo $this->Form->input('id', array('type' => 'hidden'));
echo $this->Form->end('Update Item');
?>
```

Summary

Four Parts of the View

- Layout
- Views
- Elements
- Helpers

Layout

Views

Extending Views

Elements

Reusable code

Helpers

- Code shortcuts
- HtmlHelper, FormHelper