CakePhp Tutorial

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MVC architecture

Isolates domain logic from the GUI
Basics of Cake Php

• Folder Structure
  - App
    • Config: all configuration files
    • Models: application’s models, data sources and behaviors
    • Controllers: application’s controllers and components
    • Views: presentational files
    • Vendors: 3rd party classes or libraries
    • Webroot: acts as document root for the application
    • Locale: stores string files for internationalization
    • Tmp: stores temporary data
    • Plugins: plugin packages
  - Cake
  - Vendors
Naming conventions

- Class name: MyFirstClass  filename: my_first_name.php
- Classname: Book  tablename: books
- Classname: BooksController

Ex:

Database table: books
Model class: Book
Controller class: BooksController
View found at: /app/views/books/index.ctp
Steps

• Creating the database
• Creating a model
• Creating a controller
• Creating the views
Creating the database

• Create a new table (name should be according to the naming conventions)
• Enter the data.
• (Using phpmyadmin)
Creating a model

• Separates the domain logic from presentation isolating the application logic.
• Extends AppModel (extends Model)
• Contains data validation rules, association information and methods specific to the table it uses.
• For complete reference http://api.cakephp.org
• Cakephp dynamically creates a model object
  
  class Book extends AppModel {
      var $name = 'Book';
  }

• We do can add some behaviors to each model.
Creating a controller

• Manages the logic for a part of our application
• Can access the model object by $this->Book

```php
class BooksController extends AppController {
    var $name = 'Books';
    function index() {
        $this->set('books', $this->Book->find('all'));
    }
}
```

• $this->loadModel('Article'); loads a different model
• Components (packages of logic that are shared between controllers)
Creating the views

- Layouts (placed in /app/views/layouts)
- Elements (reusable parts)
- Helpers

  var $helpers = array('Form', 'Html', 'Javascript', 'Time');

Sample model

```php
<?php
class Book extends AppModel {
    var $name = 'Book';
    var $validate = array(
        'title' => array(
            'rule' => 'notEmpty',
        ),
        'author' => array(
            'rule' => 'notEmpty',
        ),
    );
}
?>
<?php
class BooksController extends AppController {
    var $name = 'Books';
    var $helpers = array('Html', 'Ajax', 'Javascript');
    function index()
    {
        $this->set('books', $this->Book->find('all'));
    }
    function view($id = null) {
        $this->Book->id = $id;
        $this->set('book', $this->Book->read());
        print_r($this->viewVars);
    }
}
}
# Sample view

<h1>Books</h1>
<table>
  <tr>
    <th>Id</th>
    <th>Title</th>
    <th>Author</th>
  </tr>
  <?php foreach ($books as $book: ?>
  <tr>
    <td><?php echo $book['id']; ?></td>
    <td><?php echo $book['author']; ?></td>
  </tr>
  <?php endforeach; ?>
</table>
References