

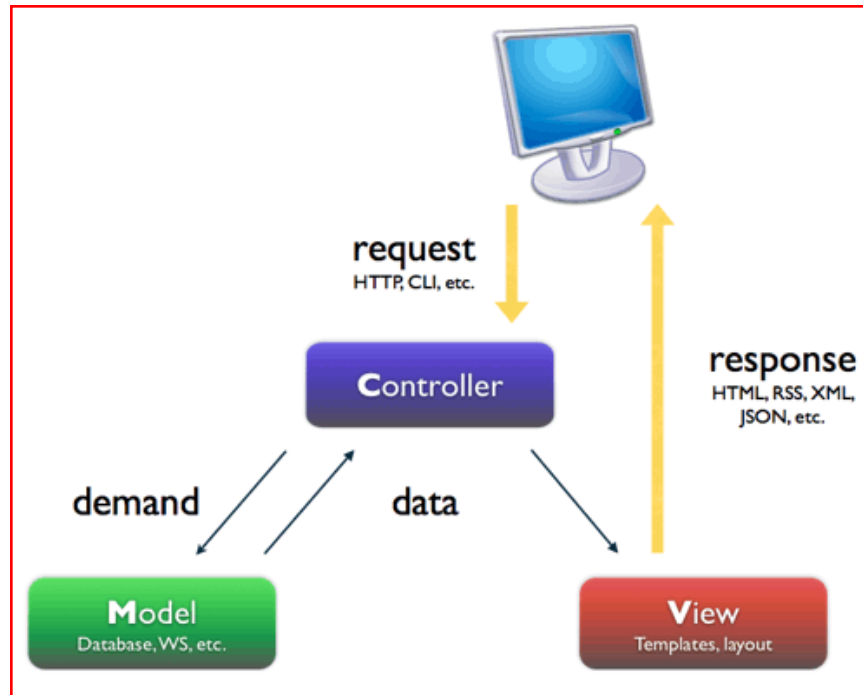
CakePhp Tutorial

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MVC architecture

Isolates domain logic from the GUI



Basics of CakePhp

- 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`

```
class BooksController extends ApplicationController {  
    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
class Book extends AppModel
{
var $name = 'Book';
var $validate = array(
'title' => array(
'rule' => 'notEmpty'
),
'author' => array(
'rule' => 'notEmpty'
)
);
}
?>
```

Sample Controller

```
<?php
class BooksController extends ApplicationController {
    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['Book']['id']; ?></td>
    <td>
      <?php echo $html->link($book['Book']['title'],
array('controller' => 'books', 'action' => 'view', $book['Book']['id'])); ?>
    </td>
    <td><?php echo $book['Book']['author']; ?></td>
  </tr>
  <?php endforeach; ?>
</table>
```

References

- <http://book.cakephp.org/view/4/Beginning-With-CakePHP>