

An Introduction to CakePHP

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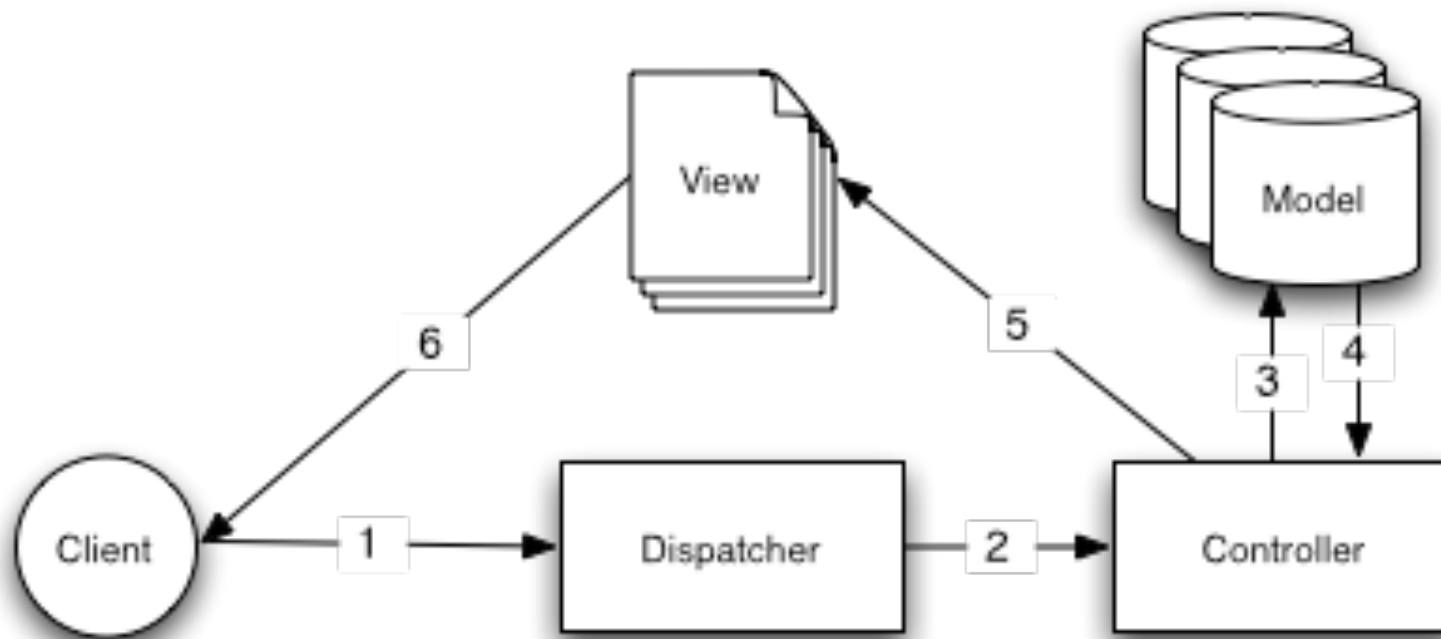
About Me

- Masters in CS from OSU
- PHP off and on for 8 years
- Project Manager and Architect for largest known CakePHP project
- CakePHP for 1.5 years
- I've never used CakePHP 1.2

Cake PHP Overview

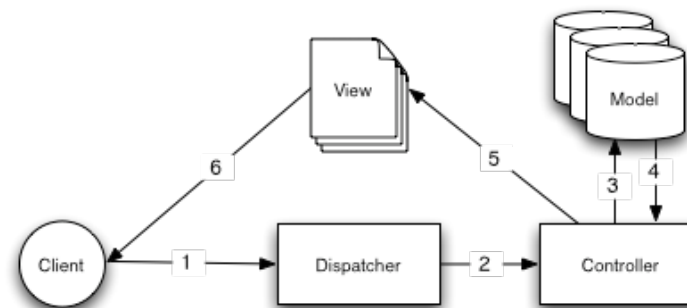
- Model-View-Controller (MVC)
- Object-Relation Model (ORM)
- Convention over Configuration
- Numerous extensions for everyday tasks

MVC Overview



MVC Example

1. Click “Buy a Cake”
2. Dispatcher routes the request to /cake/buy
3. Controller checks if user is logged in, asks ShoppingCart model to add a cake.
4. ShoppingCart model returns the current cart items
5. Cart data provided to shopping cart view.
6. Shopping cart page rendered in User’s browser



Controllers

```
1. <?php
2.
3. # /app/controllers/recipes_controller.php
4.
5. class RecipesController extends ApplicationController {
6.     function view($id) {
7.         //action logic goes here..
8.     }
9.
10.    function share($customer_id, $recipe_id) {
11.        //action logic goes here..
12.    }
13.
14.    function search($query) {
15.        //action logic goes here..
16.    }
17. }
18.
19. ?>
```

Models

- Typically Represent Database Table
- Define Relationships Between Tables
- CRUD (Create, Retrieve, Update, Delete)

Model Associations

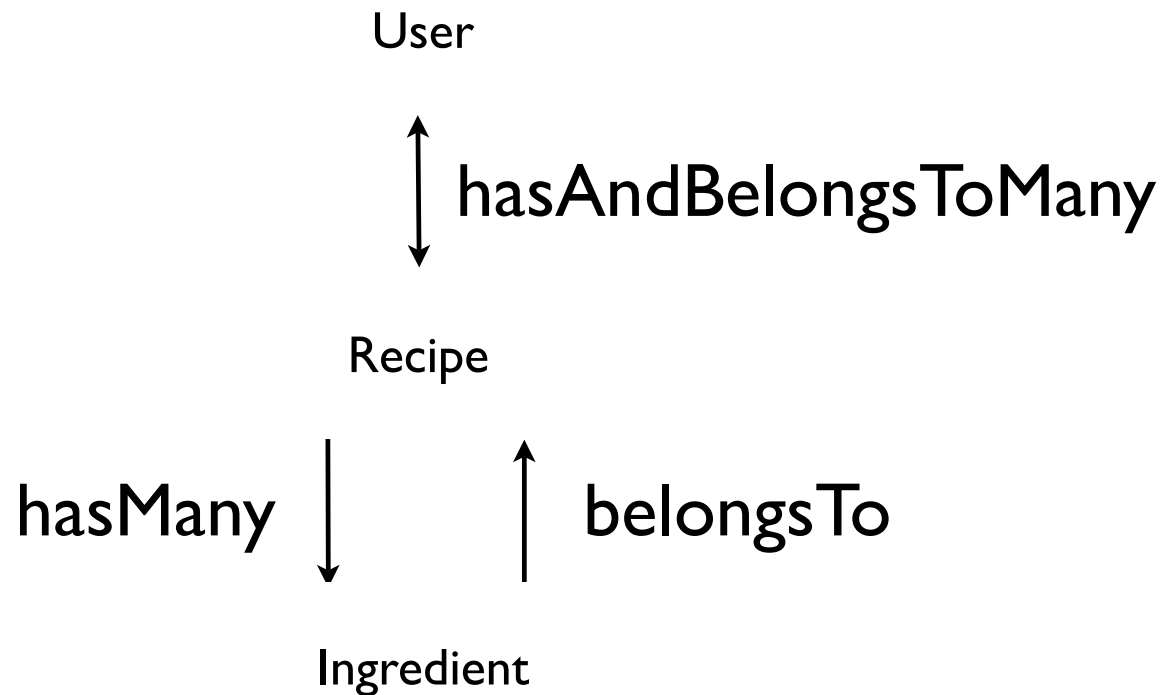
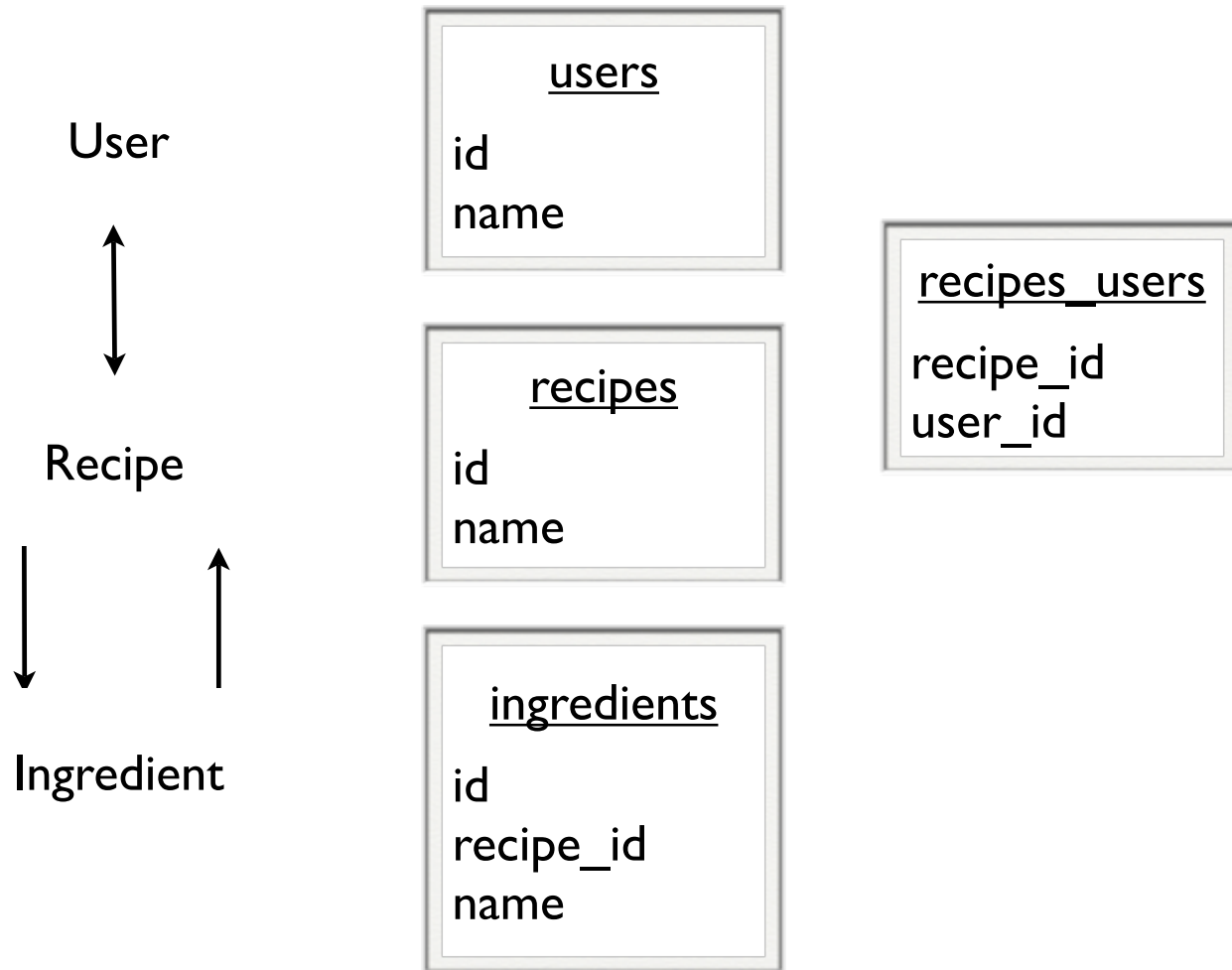


Table Conventions



Object-Relation Model

```
1. $recipe = $this->Recipe->find(
2.     array('Recipe.id' => 123) );
3.
4. array(
5.     'Recipe' => array(
6.         'id' => 123,
7.         'name' => 'Cake'
8.     ),
9.     'Ingredients' => array(
10.        0 => array(
11.            'id' => 5,
12.            'name' => 'flour'
13.        ),
14.        1 => array(
15.            'id' => 6,
16.            'name' => 'eggs'
17.        )
18.    ),
19.    'Users' => array(
20.        0 => array(
21.            'id' => 42
22.            , 'name' => 'Dennis'
23.        ),
24.        1 => array(
25.            'id' => 43
26.            , 'name' => 'George'
27.        ),
28.    )
29. )
30.
31.
32.
33.
34.
35.
36.
```

Views

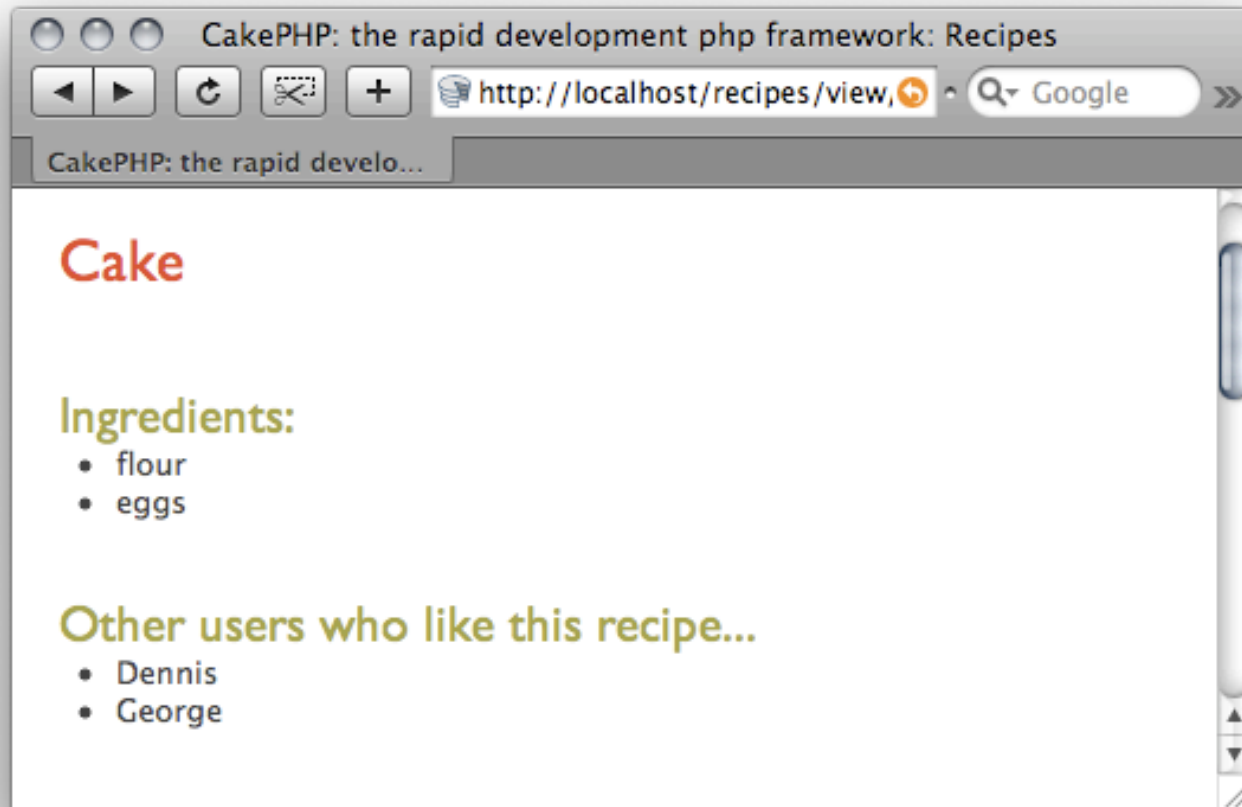
Controller Code

```
1. function view($id = null) {  
2.     if (!$id) {  
3.         $this->Session->setFlash(__('Invalid Recipe.', true));  
4.         $this->redirect(array('action'=>'index'));  
5.     }  
6.     $this->set('recipe', $this->Recipe->read(null, $id));  
7. }
```

View Code

```
1. <h2><?php echo h($recipe['Recipe']['name']); ?></h2>  
2.   
3. <h3>Ingredients:</h3>  
4.   
5. <ul><?php foreach ($recipe['Ingredient'] as $ingredient): ?>  
6.     <li><?php echo h($ingredient['name']); ?></li>  
7. <?php endforeach; ?></ul>  
8.   
9. <h3>Other users who like this recipe...</h3>  
10.   
11. <ul><?php foreach ($recipe['User'] as $user): ?>  
12.     <li><?php echo h($user['name']); ?></li>  
13. <?php endforeach; ?></ul>
```

Views



Extensions

- **Helpers (for Views)**
 - Forms/Html
 - Pagination
- **Behaviors (for Models)**
 - Soft Delete
 - Read Only
- **Components (for Controllers)**
 - Sessions
 - Emails

Baking with Cake

```
# create database  
cake bake app  
# create database.php  
cake bake all User  
cake bake all Ingredient  
cake bake all Recipe
```

Pros and Cons

- Rapid Development
- Thoughtful, coherent design
- Community Contributions

- Doesn't scale well
- Missing "Enterprise" Features
- Lack of qualified developers

Other Resources

- cakephp.org
downloads, API, forums, bakery, IRC, mail list
- book.cakephp.org
- “Beginning CakePHP”
www.amazon.com/dp/1430209771/
- CakeFest Hispano
es.cakefest.org/pages/home?lang=eng