PHP Web Application Framework

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Overview

- Aims to speed up web application development
- Simplifies & separates: display code, data management, and business logic
- Marketed towards enterprise development
- Runs on most platforms
- Includes framework & developer tools

Design Philosophy

- Clean design and code readability
- Agile development principles such as **DRY**, **KISS**, and **XP**
- Web best practices and design patterns
- Focus on application logic not configuration
  - **Convention over configuration**—the developer needs to configure only the unconventional
- Simple to setup and use, but extensible.

Services Provided

- Templates
- AJAX
- Actions provide business logic
- Data abstraction & ORM
  - Database agnostic
- Filters system
- Extensible plug-in architecture

Services Provided (cont.)

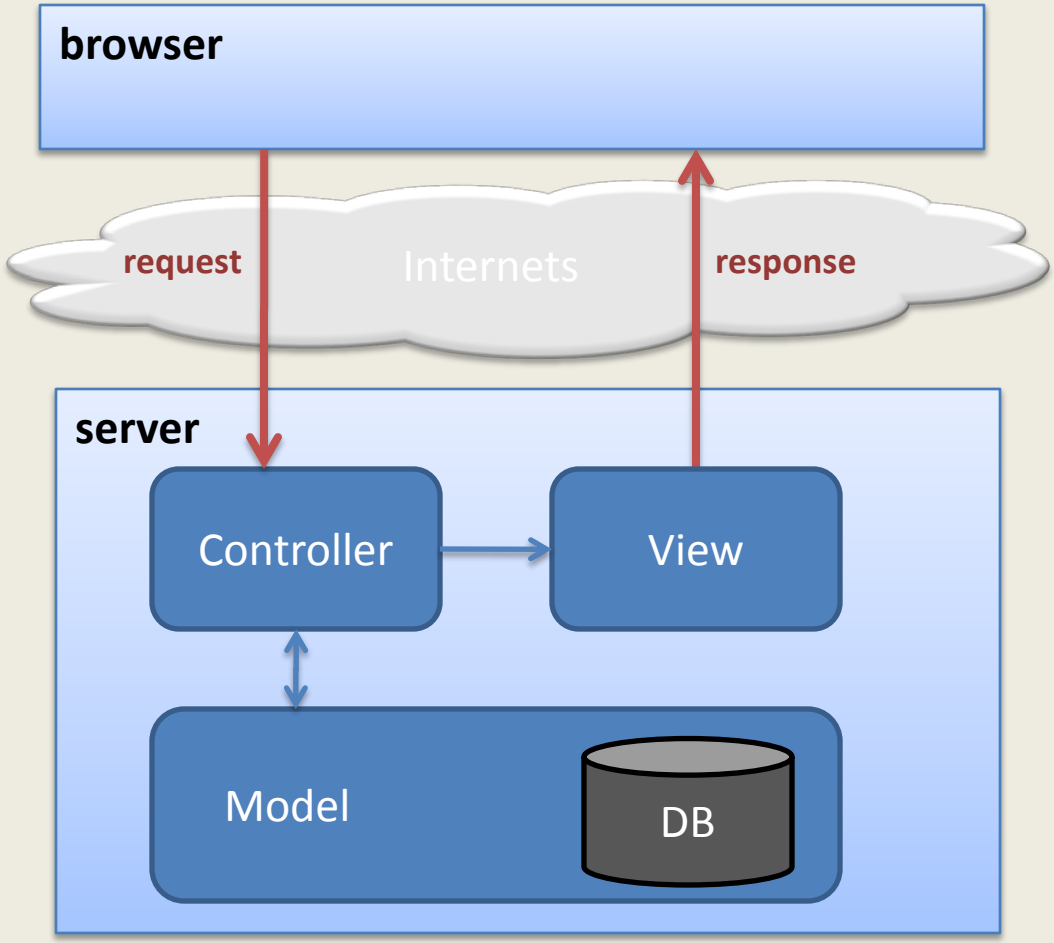
- Authentication system
- Code generation tools
  - Admin generation
- Built in unit & functional testing

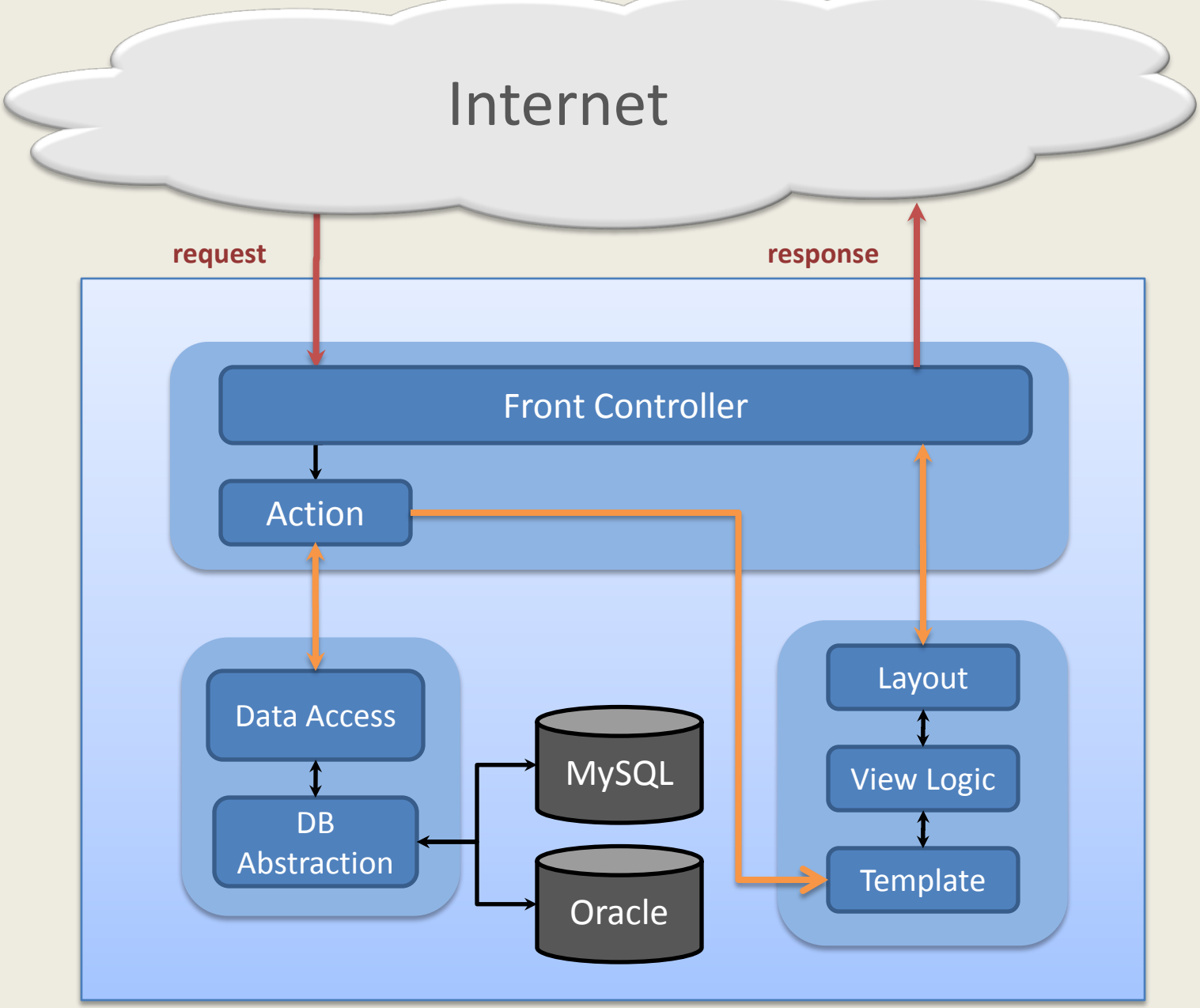
MVC Architecture

Model domain specific representation of data/business logic

View is the presentation layer, face of application

Controller responds to user actions, changes model or view as necessary, is glue




Internet
request
response
Front Controller
Action
Data Access
DB Abstraction
MySQL
Oracle
Layout
View Logic
Template

Straight PHP

```php
<?php
// Connecting, selecting database
$link = mysql_connect('localhost', 'myuser', 'mypassword');
mysql_select_db('blog_db', $link);
// Performing SQL query
$result = mysql_query('SELECT date, title FROM post', $link);
?>
<html>
  <head>
    <title>List of Posts</title>
  </head>
  <body>
   <h1>List of Posts</h1>
   <table>
     <tr><th>Date</th><th>Title</th></tr>
<?php
// Printing results in HTML
while ($row = mysql_fetch_array($result, MYSQL_ASSOC))
{
     echo "\t<tr>\n";
     printf("\t\t<td> %s </td>\n", $row['date']);
     printf("\t\t<td> %s </td>\n", $row['title']);
     echo "\t</tr>\n";
}
?>
    </table>
  </body>
</html>
<?php
// Closing connection
mysql_close($link);
?>
```

Symfony

Controller

```php
<?php

// Requiring the model
require_once('model.php');

// Retrieving the list of posts
$posts = getAllPosts();

// Requiring the view
require('view.php');
```

Model

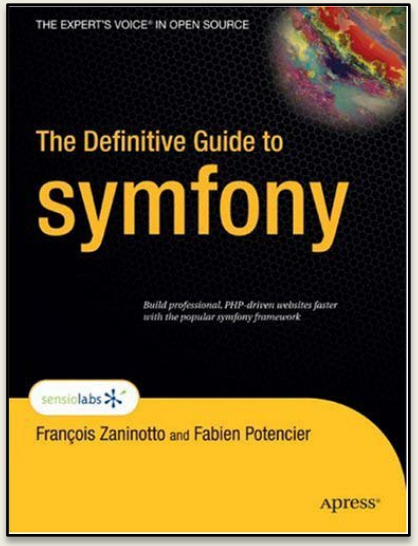
```php
function getAllPosts()
{
  …
  // Connecting to database
  // Performing SQL query
  // Filling up the array
  …
  $posts = array();
  while ($row = fetch_results($result))
  {
     $posts[] = $row;
  }
  return $posts;
```

View

```php
<html>
  <head>
    <title>List of Posts</title>
  </head>
  <body>
    <h1>List of Posts</h1>
    <table>
      <tr><th>Date</th><th>Title</th></tr>
    <?php foreach ($posts as $post): ?>
      <tr>
        <td><?php echo $post['date'] ?></td>
        <td><?php echo $post['title'] ?></td>
      </tr>
    <?php endforeach; ?>
    </table>
  </body>
```

References/Sources

- ***The Definitive Guide to symfony*.** François Zaninotto, Fabien Potencier. Open Source.
- **Symfony Project Website.** http://www.symfony-project.org/
- **Learn symfony: a Beginners Tutorial.** http://www.sitepoint.com/article/symfony-beginners-tutorial/.
- **Symfonians**: Another symfony Community. http://symfonians.net/



symfony In Action

Demo