

Web Programming

#13 PHP MVC



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What is MVC?

The **Model-View-Controller (MVC)** is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller.

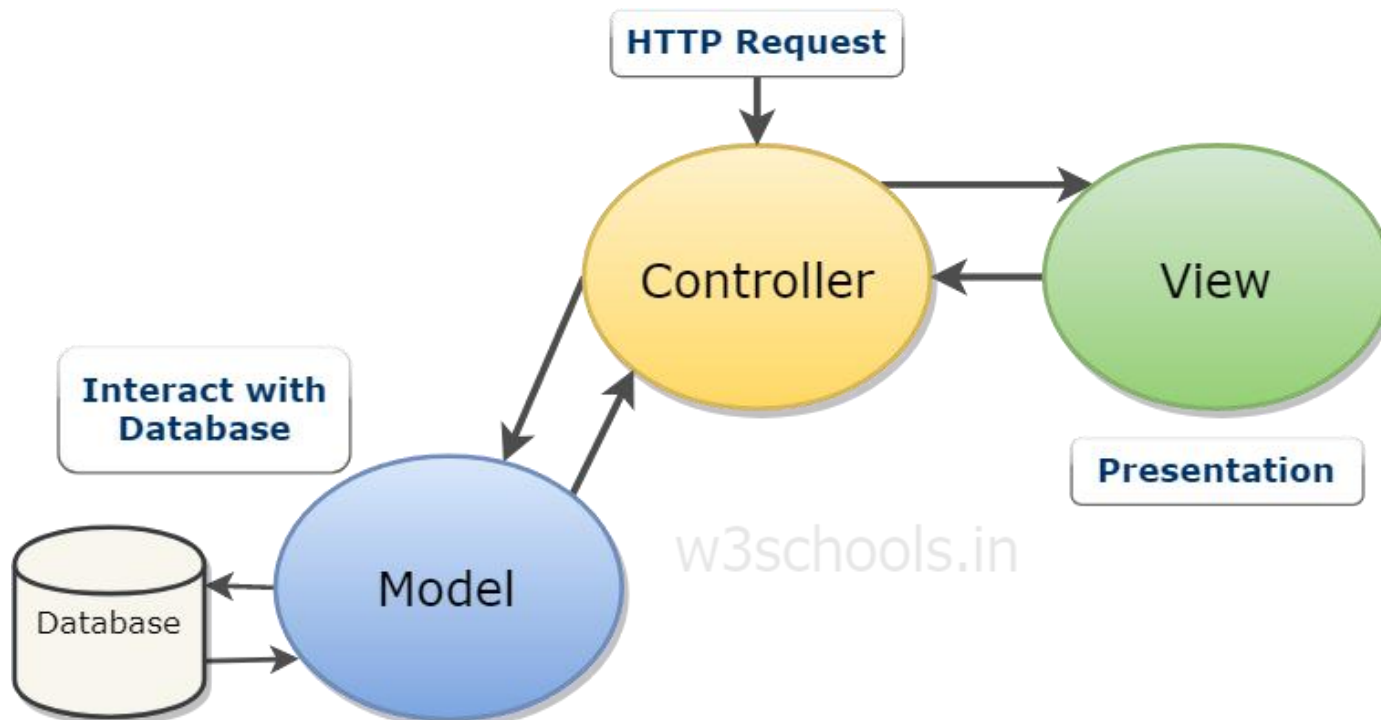


Fig: MVC Architecture



PHP MVC Frameworks

- Laravel
- Symfony
- CakePHP
- Zend
- Codeigniter
- dll



How?

✓ controller

🐘 BookController.php

✓ model

🐘 BookModel.php

✓ view

🐘 BookListView.php

🐘 BookView.php

🐘 index.php



BookModel

```
1  <?php
2
3  class BookModel {
4
5      public function getBookList()
6      {
7          // penerapan secara nyata biasanya menggunakan database
8          return array(
9              "Jungle Book" => new Book("Jungle Book", "R. Kipling", "A classic book."),
10             "Moonwalker" => new Book("Moonwalker", "J. Walker", "Not a romance"),
11             "PHP for Dummies" => new Book("PHP for Dummies", "Smart Guy", "Make a web")
12         );
13     }
14     public function getBook($title)
15     {
16         $allBooks = $this->getBookList();
17         return $allBooks[$title];
18     }
19 }
```

model/BookModel.php



BookModel

```
21 class Book {
22     public $title;
23     public $author;
24     public $description;
25
26     public function __construct($title, $author, $description)
27     {
28         $this->title = $title;
29         $this->author = $author;
30         $this->description = $description;
31     }
32 }
33 ?>
```

model/BookModel.php



BookController

controller/BookController.php

```
1  <?php
2  include_once("model/BookModel.php");
3
4  class BookController {
5      public $model;
6
7      public function __construct() {
8          $this->model = new BookModel();
9      }
10
11     public function tampil() {
12         if (!isset($_GET['book'])) {
13             $books = $this->model->getBookList();
14             include 'view/BooklistView.php';
15         } else {
16             $book = $this->model->getBook($_GET['book']);
17             include 'view/BookView.php';
18         }
19     }
20 }
21 ?>
```



BooklistView

view/BooklistView.php

```
1  <html>
2  <head></head>
3  <body>
4      <table>
5          <tbody>
6              <tr><td>Title</td><td>Author</td><td>Description</td></tr>
7          </tbody>
8          <?php
9              foreach ($books as $book)          {
10                  echo '<tr><td><a href="index.php?book=' .
11                      $book->title . '">' . $book->title .
12                      '</a></td><td>' .
13                      $book->author . '</td><td>' . $book->description .
14                      '</td></tr>';
15              }
16          ?>
17      </table>
18  </body>
19  </html>
```




BookView

view/BookView.php

```
1  <html>
2  <head></head>
3  <body>
4      <?php
5
6          echo 'Title:' . $book->title . '<br/>';
7          echo 'Author:' . $book->author . '<br/>';
8          echo 'Description:' . $book->description . '<br/>';
9
10     ?>
11 </body>
12 </html>
```



BookView

index.php

```
1  <?php
2
3      function __autoload($controller){
4          include "controller/".$controller.".php";
5      }
6
7      $controller = new BookController();
8      $controller->tampil();
9
10  ?>
```