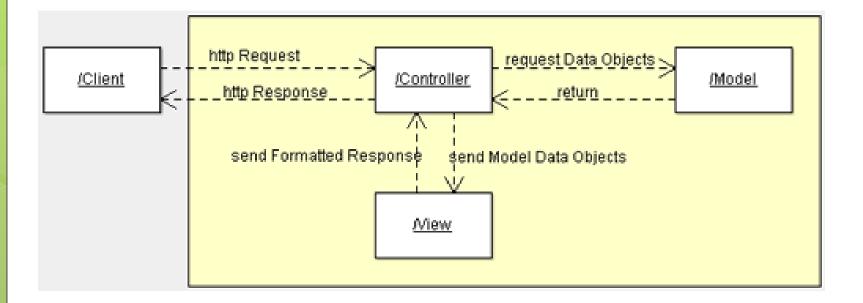
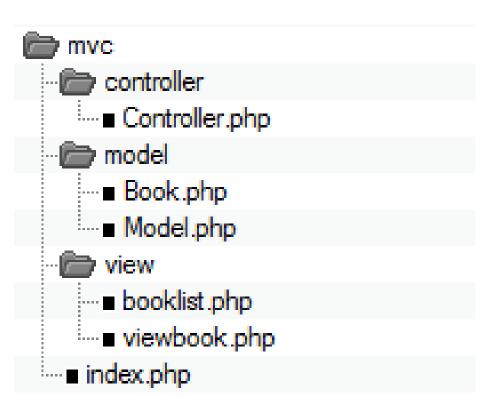
Model View Controller

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- The model view controller pattern is the most used pattern for today's world web applications
- It has been used for the first time in Smalltalk and then adopted and popularized by Java
- At present there are more than a dozen PHP web frameworks based on MVC pattern

- The model is responsible to manage the data
- The view (presentation) is responsible to display the data provided by the model in a specific format
- The controller handles the model and view layers to work together





model/Book.php

```
<?php
class Book {
    public $title;
    public $author;
    public $description;
    public function construct ($title, $author,
$description)
        $this->title = $title;
        $this->author = $author;
        $this->description = $description;
```

model/Model.php

```
<?php
include once("model/Book.php");
class Model {
    public function getBookList()
        // here goes some hardcoded values to simulate the database
        return array(
            "Jungle Book" => new Book("Jungle Book", "R. Kipling", "A classic book."),
            "Moonwalker" => new Book("Moonwalker", "J. Walker", ""),
            "PHP for Dummies" => new Book("PHP for Dummies", "Some Smart Guy", "")
        );
    public function getBook($title)
        // we use the previous function to get all the books
        // and then we return the requested one.
        // in a real life scenario this will be done through
        // a database select command
        $allBooks = $this->getBookList();
        return $allBooks[$title];
?>
```

view/viewbook.php

view/booklist.php

```
<html>
<head></head>
<body>
  TitleAuthorDescription
     <?php
        foreach ($books as $book)
            echo '<a href="index.php?book=" .
              $book->title . '">' . $book->title .
'</a>' .
              $book->author . '' . $book-
>description . '';
     ?>
  </body>
</html>
```

controller/Controller.php

```
<?php
include_once("model/Model.php");

class Controller {
    public $model;

    public function __construct()
    {
        $this->model = new Model();
    }
}
```

controller/Controller.php

```
public function invoke()
          if (!isset($ GET['book']))
               // no special book is requested, we'll show a
list of all available books
               $books = $this->model->getBookList();
               include 'view/booklist.php';
          else
               // show the requested book
               $book = $this->model->getBook($_GET['book']);
               include 'view/viewbook.php';
```

index.php

```
<?php

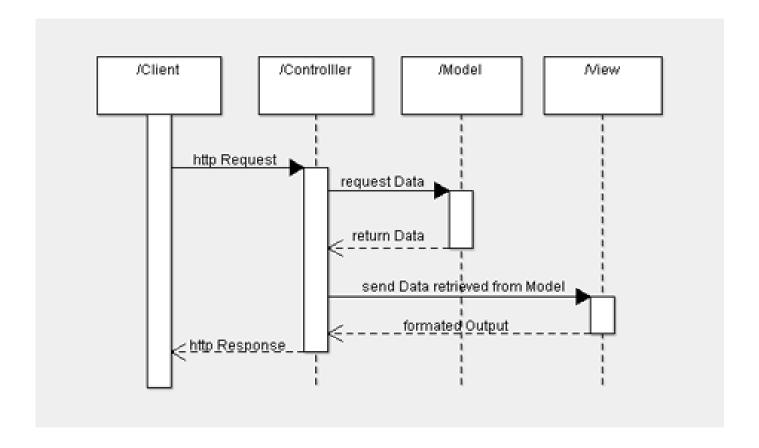
// All interaction goes through the index and is forwarded

// directly to the controller

include_once("controller/Controller.php");

$controller = new Controller();
$controller->invoke();

?>
```



THANK YOU...