



THỰC HỌC – THỰC NGHIỆP

Conceive Design Implement Operate

## LẬP TRÌNH PHP2

MVC USING PHP OOP

- ⊙ Controller
- ⊙ Layout
  - ❖ View
  - ❖ View core





PHẦN 1

## Controller Control logic

Ví dụ: nhận updates từ view sau đó thông báo model 'add item'

```
$router = new Router();  
$router  
->get('/', [app\HomeController::class, 'index'])  
->post('/upload', [app\HomeController::class, 'upload'])  
->get('/login', [app\LoginController::class, 'login'])  
->post('/login', [app\LoginController::class, 'login'])  
->get('/logout', [app\LoginController::class, 'logout'])  
->get('/register', [app\RegisterController::class, 'register'])  
->post('/register', [app\RegisterController::class, 'register']);  
  
echo $router->resolve($_SERVER['REQUEST_URI'], strtolower($_SERVER['REQUEST_METHOD']));
```

## HomeController

- Người dùng vào trang chủ (form upload files)
- Upload files vào thư mục storage

Method function của form?

- Not submit: request method **GET**
- Not submitted: request method **POST**

=> **DIFFERENT**

```
<?php
```

```
namespace app;
```

```
class HomeController {
```

```
    public function index(): string{ ...
    }
```

```
    public function upload(){ ...
    }
```

```
}
```

```
?>
```

Form not submit

Form submitted > upload

## RegisterController

- Người dùng vào đăng ký (form regist)
- Validation
- Đăng ký (form submit)

Method function of form?

- Not sumit: request method **GET**
- Not sumitted: request method **POST**

=> **SAME**

Form not submit

Form summitted > regist

```
class RegisterController extends Database {
    public $fname;
    public $lname;
    public $pwd;
    public $pwdRepeat;
    public $email;

    public function __construct(){}

    public function emptyInput(){ ...
    }

    public function invalidEmail(){ ...
    }

    public function pwdMatch(){ ...
    }

    //controller
    public function index(): string{ ...
    }

    protected function signupUser(){ ...
    }

    public function register(): string { ...
    }

    public function emailTakenCheck(){ ...
    }
}
```

## RegisterController

- Người dùng vào đăng ký (form regist)
- Validation
- Đăng ký (form submit)

Form not submit

Form submitted

```

public function register(): string {

    if(isset($_POST['submit'])){
        $this->fname = $_POST['firstname'];
        $this->lname = $_POST['lastname'];
        $this->pwd = $_POST['password'];
        $this->pwdRepeat = $_POST['confirmPassword'];
        $this->email = $_POST['email'];

        $this->signupUser();
        header("location: /");
    }
    else{
        return '<form action="/register" method="post"> ...
        </form>';
    }
}
  
```

## LoginController

- Người dùng vào đăng nhập (form login)
- Validation
- Thực hiện đăng nhập
- Thực hiện logout

Method function of form?

- Not submit: request method **GET**
- Not submitted: request method **POST**

=> **SAME**

Form not submit

Form submitted

```
<?php
namespace app;

use app\core\Database;

class LoginController extends Database{
    private $email;
    private $pwd;

    public function emptyInput(){ ...
    }

    public function invalidEmail(){ ...
    }

    //controller
    public function loginUser() { ...
    }

    public function login(): string { ...
    }

    public function logout() { ...
    }
}
```



## LoginController

- Người dùng vào đăng nhập (form login)
- Validation
- Thực hiện đăng nhập
- Thực hiện logout

## CONTROLLER - LOGINCONTROLLER

```

public function login(): string {
    if(isset($_POST['submit'])){
        $this->email = $_POST['email'];
        $this->pwd = $_POST['password'];

        $this->loginUser();
        header("location:/login");
    }
    else
    {
        //view
        if(isset($_SESSION['user'])){
            $fname = $_SESSION['user']['firstname'];
            $lname = $_SESSION['user']['lastname'];
            return "{$lname} {$fname} <a href='/logout'>Logout</a>";
        } else {
            return '<form action="/login" method="post">
                <div class="form-group">
                    <label>Email</label>
                    <input type="text" class="form-control" name="email">
                </div>
                <div class="form-group">
                    <label>Password</label>
                    <input type="password" class="form-control" name="password">
                </div>
                <button type="submit" name="submit" class="btn btn-primary" value="Submit">Submit
            </form>';
        }
    }
}
  
```



PHẦN 2

- ❑ ob\_start(callback function)
- ❑ ob\_get\_clean()
- ❑ ob\_end\_clean()

```
<?php  
  
ob_start();  
//rest your code  
  
?>
```

```
<?php  
  
ob_start("callback");  
//rest your code  
  
?>
```

using callback

- ❑ ob\_start(callback function)
- ❑ ob\_get\_clean()
- ❑ ob\_end\_clean()

```
<?php
```

```
//rest your code  
ob_end_clean();
```

```
?>
```

```
<?php
```

```
//rest your code  
$content = ob_get_clean();
```

```
?>
```

## ❑ \_\_toString(): chuyển đổi tượng thành kiểu chuỗi

```
<?php
```

```
class Animal {  
    public function __toString() {  
        return "It is a " . $this->name . " with " . $this->legs . " legs."  
    }  
}
```

```
$animal = new Animal('T-rex', 2);  
echo $animal; // It is a T-rex with 2 legs.
```

```
?>
```

- ❑ `__set()`: cố gắng gán một giá trị vào một thuộc tính không tồn tại trong lớp

```
public function __set($field, $value) {  
    // Gán giá trị vào thuộc tính với tên $field được truyền vào.  
}
```

- ❑ `__get()`: tự động gọi khi cố gắng truy cập vào một thuộc tính không tồn tại trong lớp

```
public function __get($field) {  
    // Xử lý lấy giá trị của tên $field được truyền vào  
}
```

## HomeController

- Người dùng vào trang chủ (form upload files)
- Upload files vào thư mục storage

Form not submit

Form submitted > upload

```
class HomeController {
    public function index(): string{
        return <<<FORM
            <form action="/upload" method="post" enctype="multipart/form-data">
                <input type="file" name="receipt" />
                <button type="submit">Upload</button>
            </form>
            FORM;
    }

    public function upload(){ ...
    }
}
```

View (UploadView.php)

## HomeController

- Người dùng vào trang chủ (form upload files)
- Upload files vào thư mục storage

Form not submit

Form submitted > upload

```
class HomeController {
    public function index(): string {
        /*return <<<FORM
        <form action="/upload" method="post" enctype="multipart/form-data">
            <input type="file" name="receipt" />
            <button type="submit">Upload</button>
        </form>
        FORM;*/
    }

    ob_start();

    include __DIR__ . '/UploadView.php';

    return (string) ob_get_clean();
}

public function upload(){ ...
}
```

UploadView.php

View



## RegisterController

- Người dùng vào đăng ký (form regist)
  - Validation
  - Đăng ký (form submit)
- Form not submit
- Form submitted

```
public function register(): string {
```

```
    if(isset($_POST['submit'])){
```

```
        $this->fname = $_POST['firstname'];
```

```
        $this->lname = $_POST['lastname'];
```

```
        $this->pwd = $_POST['password'];
```

```
        $this->pwdRepeat = $_POST['confirmPassword'];
```

```
        $this->email = $_POST['email'];
```

```
        $this->signupUser();
```

```
        header("location:");
```

```
    }
```

```
    else{
```

```
        return '<form action="/register" method="post">
```

```
            <div class="row">
```

```
                <div class="col">...
```

```
            </div>
```

```
            <div class="col">...
```

```
        </div>
```

```
        <div class="form-group">
```

```
            <label>Email</label>
```

```
            <input type="text" class="form-control" name="email">
```

```
        </div>
```

```
        <div class="form-group">
```

```
            <label>Password</label>
```

```
            <input type="password" class="form-control" name="password">
```

```
        </div>
```

```
        <div class="form-group">
```

```
            <label>Confirm Password</label>
```

```
            <input type="password" class="form-control" name="confirmPassword">
```

```
        </div>
```

```
        <button type="submit" name="submit" class="btn btn-primary" value="Submit">Submit</button>
```

```
    </form>';
```

```
    }
```

```
}
```

View

RegisterView.php

## RegisterController

- Người dùng vào đăng ký (form regist)
  - Validation
  - Đăng ký (form submit)
- Form not submit
- Form submitted

```
public function register(): string {
    if(isset($_POST['submit'])){
        $this->fname = $_POST['firstname'];
        $this->lname = $_POST['lastname'];
        $this->pwd = $_POST['password'];
        $this->pwdRepeat = $_POST['confirmPassword'];
        $this->email = $_POST['email'];

        $this->signupUser();
        header("location: /");
    }
    else{
        ob_start();

        include __DIR__ . '/RegisterView.php';

        return (string) ob_get_clean();
    }
}
```

View

## LoginController

- Người dùng vào đăng nhập (form login) *Form not submit*
- Validation
- Thực hiện đăng nhập *Form submitted*
- Thực hiện logout

```
public function login(): string {
    if(isset($_POST['submit'])){
        $this->email = $_POST['email'];
        $this->pwd = $_POST['password'];

        $this->loginUser();
        header("location:/login");
    }
    else
    {
        //view
        if(isset($_SESSION['user'])){
            $fname = $_SESSION['user']['firstname'];
            $lname = $_SESSION['user']['lastname'];
            return "{$lname} {$fname} <a href='/logout'>Logout</a>";
        } else {
            return '<form action="/login" method="post">
                <div class="form-group">
                    <label>Email</label>
                    <input type="text" class="form-control" name="email">
                </div>
                <div class="form-group">
                    <label>Password</label>
                    <input type="password" class="form-control" name="password">
                </div>
                <button type="submit" name="submit" class="btn btn-primary" value="Submit">
            </form>';
        }
    }
}
```

View

## LoginController

- Người dùng vào đăng nhập (form login) **Form not submit**
- Validation
- Thực hiện đăng nhập **Form submitted**
- Thực hiện logout

```
//view
if(isset($_SESSION['user'])) {
    $fname = $_SESSION['user']['firstname'];
    $lname = $_SESSION['user']['lastname'];
    return "{$lname} {$fname} <a href='/logout'>Logout</a>";
} else {
    /*return'<form action="/login" method="post">
        <div class="form-group">
            <label>Email</label>
            <input type="text" class="form-control" name="email">
        </div>
        <div class="form-group">
            <label>Password</label>
            <input type="password" class="form-control" name="password">
        </div>
        <button type="submit" name="submit" class="btn btn-primary" value="Submit">Submit
    </form>';*/
    ob_start();

    include __DIR__ . '/LoginView.php';

    return (string) ob_get_clean();
}
```

LoginView.php

View



**LOAD VIEW**

## HomeController

```
ob_start();

include __DIR__ . '/RegisterView.php';

return (string) ob_get_clean();
```

## LoginController

```
ob_start();

include __DIR__ . '/LoginView.php';

return (string) ob_get_clean();
```

## RegisterController

```
ob_start();

include __DIR__ . '/UploadView.php';

return (string) ob_get_clean();
```

## Class View

```
public function render(): string
{
    $viewPath = VIEW_PATH . '/' . $this->view . '.php';

    if (! file_exists($viewPath)) {
        throw new ViewNotFoundException();
    }

    ob_start();

    include $viewPath;

    return (string) ob_get_clean();
}
```

## HomeController

```
ob_start();

include __DIR__ . '/RegisterView.php';

return (string) ob_get_clean();
```

## LoginController

```
ob_start();

include __DIR__ . '/LoginView.php';

return (string) ob_get_clean();
```

## RegisterController

```
ob_start();

include __DIR__ . '/UploadView.php';

return (string) ob_get_clean();
```

## Class View

```
public function render(): string How to get?
{
    $viewPath = VIEW_PATH . '/' . $this->view . '.php';

    if (! file_exists($viewPath)) {
        throw new ViewNotFoundException();
    }

    ob_start();

    include $viewPath;

    return (string) ob_get_clean();
}
```

```
public function __toString(): string Magic constant
{
    return $this->render();
}
```

```

public function __construct(
    protected string $view
) {
}

public static function make(string $view): static
{
    return new static($view);
}

```

```
@var $this $this
```

## Class View

```

public function render(): string
{
    $viewPath = VIEW_PATH . '/' . $this->view . '.php';

    if (! file_exists($viewPath)) {
        throw new ViewNotFoundException();
    }

    ob_start();

    include $viewPath;

    return (string) ob_get_clean();
}

```

How to get?

Magic constant

```

public function __toString(): string
{
    return $this->render();
}

```



## Class View

```
public function __construct(
    protected string $view
) {
}

public static function make(string $view): static
{
    return new static($view);
}
```

```
@var $this $this
```

```
class HomeController {
    public function index(): string {
        /*return <<<FORM
        <form action="/upload" method="post" enctype="multipart/form-data">
            <input type="file" name="receipt" />
            <button type="submit">Upload</button>
        </form>
        FORM;*/

        return View::make('UploadView');
    }
}
```

```
public function render(): string
{
    $viewPath = VIEW_PATH . '/' . $this->view . '.php';

    if (! file_exists($viewPath)) {
        throw new ViewNotFoundException();
    }

    ob_start();

    include $viewPath;

    return (string) ob_get_clean();
}
```

How to get?

Magic constant

```
c function __toString(): string
{
    return $this->render();
}
```



**VIEW CORE**

- ☑ Controller
- ☑ Layout
  - ❖ View
  - ❖ View core



thank  
you!