



THỰC HỌC – THỰC NGHIỆP



Conceive Design Implement Operate

## LẬP TRÌNH PHP2

### PHP OOP VỚI DATABASE

- ① Form & File Uploads
- ① Login & Regist system
  - ❖ Login





# PHẦN 1

```
$router = new Router();
$router
->register('/', [app\Home::class, 'index'])
->register('/invoices', [app\Invoices::class, 'index'])
->register('/invoices/create', [app\Invoices::class, 'create']);
```

class

Methods of class

Firstname

Lastname

Email

Password

Confirm Password

Submit

## Method GET or POST?

```
$router = new Router();
$router
->register('/', [app\Home::class, 'index'])
->register('/invoices', [app\Invoices::class, 'index'])
->register('/invoices/create', [app\Invoices::class, 'create']);
```

Firstname

Lastname

Email

Password

Confirm Password

```
$router = new Router();
$router
->get('/', [app\Home::class, 'index'])
->post('/upload', [app\Home::class, 'upload']);
```

Method GET or POST?

```
$router = new Router();  
$router  
->get('/', [app\Home::class, 'index'])  
->post('/upload', [app\Home::class, 'upload']);
```

Index.php

```
public function get(string $route, callable|array $action): self  
{  
    return $this->register('get', $route, $action);  
}
```

```
public function post(string $route, callable|array $action): self  
{  
    return $this->register('post', $route, $action);  
}
```

Class Route

```
private array $routes;
```

```
public function register(string $requestMethod, string $route, callable|array $action): self
{
    //var_dump($route);
    $this->routes[$requestMethod][$route] = $action;
    //var_dump($this->routes['post']);
    return $this;
}
```

```
public function get(string $route, callable|array $action): self
{
    return $this->register('get', $route, $action);
}
```

```
public function post(string $route, callable|array $action): self
{
    return $this->register('post', $route, $action);
}
```

## Class Route

Array

(

```
[UNIQUE_ID] => YcvDf3h-SSC8o91UffmZOQAAAAM
[HTTP_HOST] => 192.168.64.2
[HTTP_ACCEPT] => text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
[HTTP_UPGRADE_INSECURE_REQUESTS] => 1
[HTTP_COOKIE] => PHPSESSID=4ohsi50qhmpdbu79pmlrgtrttq0
[HTTP_USER_AGENT] => Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/60
[HTTP_ACCEPT_LANGUAGE] => en-us
[HTTP_ACCEPT_ENCODING] => gzip, deflate
[HTTP_CONNECTION] => keep-alive
[PATH] => /opt/lampp/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/b
[LD_LIBRARY_PATH] => /opt/lampp/lib:/opt/lampp/lib
[SERVER_SIGNATURE] =>
[SERVER_SOFTWARE] => Apache/2.4.48 (Unix) OpenSSL/1.1.1k PHP/8.0.8
[SERVER_NAME] => 192.168.64.2
[SERVER_ADDR] => 192.168.64.2
[SERVER_PORT] => 80
[REMOTE_ADDR] => 192.168.64.1
[DOCUMENT_ROOT] => /opt/lampp/htdocs
[REQUEST_SCHEME] => http
[CONTEXT_PREFIX] =>
[CONTEXT_DOCUMENT_ROOT] => /opt/lamp
[SERVER_ADMIN] => you@example.com
[SCRIPT_FILENAME] => /opt/lampp/htdocs
[REMOTE_PORT] => 52863
[GATEWAY_INTERFACE] => CGI/1.1
[SERVER_PROTOCOL] => HTTP/1.1
[REQUEST_METHOD] => GET
[QUERY_STRING] =>
[REQUEST_URI] => /PHP2/mvc_simple/route.php
[SCRIPT_NAME] => /PHP2/mvc_simple/route.php
[PHP_SELF] => /PHP2/mvc_simple/route.php
[REQUEST_TIME_FLOAT] => 1640743807.2857
[REQUEST_TIME] => 1640743807
```

```
$router = new Router();
$router
    ->get('/', [app\Home::class, 'index'])
    ->post('/upload', [app\Home::class, 'upload']);

echo $router->resolve($_SERVER['REQUEST_URI'], strtolower($_SERVER['REQUEST_METHOD']));
```



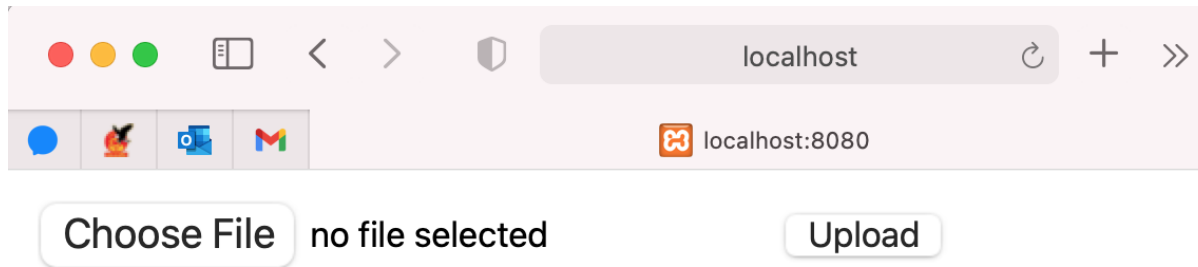


**ROUTE VỚI REQUEST METHOD**

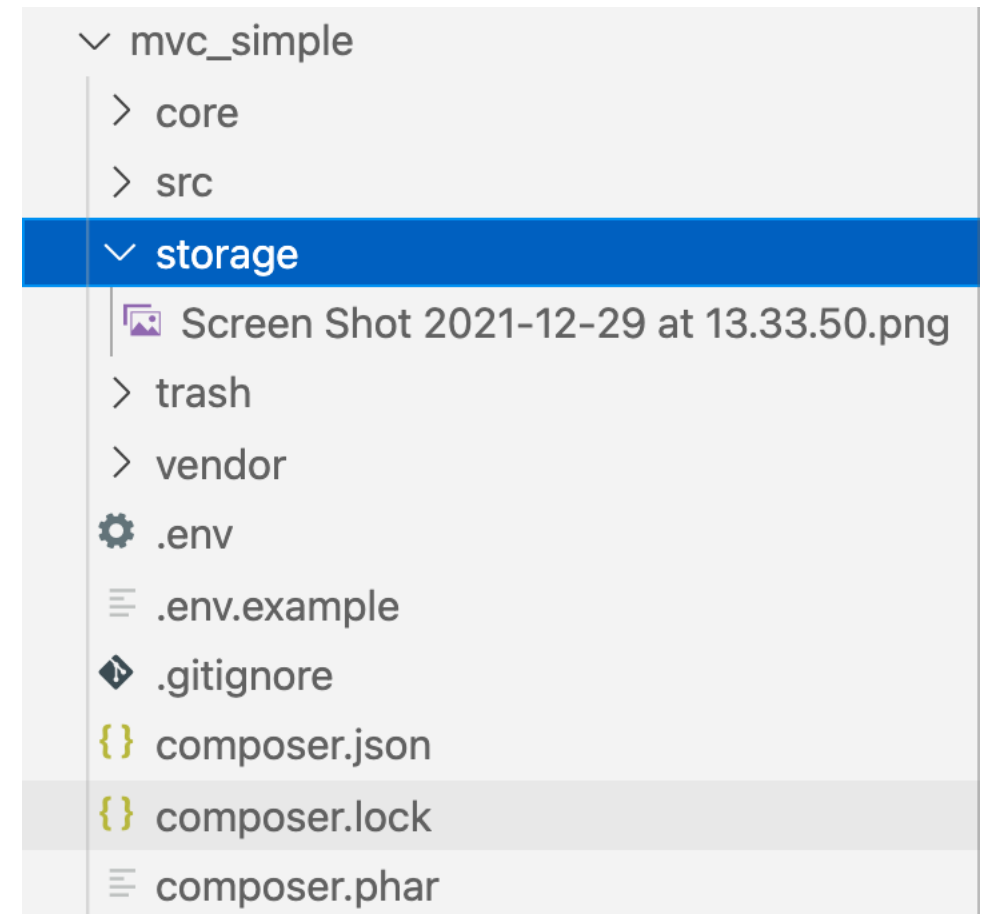


PHẦN 2

## Form upload: enctype attribute



Upload success



# SUPERGLOBAL \$\_POST, \$\_FILES - FILE UPLOAD

```
$router = new Router();
$router
->get('/', [app\Home::class, 'index'])
->post('/upload', [app\Home::class, 'upload']);

echo $router->resolve($_SERVER['REQUEST_URI'], strtolower($_SERVER['REQUEST_METHOD']));
```

url: <http://localhost:8080/>  
=> method: get

```
namespace app;
```

```
class Home {
    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;
    }
}
```

Call > class: Home > method: index function

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

```
}
```

```
}
```

# SUPERGLOBAL \$\_POST, \$\_FILES - FILE UPLOAD

```
$router = new Router();
$router
    ->get('/', [app\Home::class, 'index'])
    ->post('/upload', [app\Home::class, 'upload']);

echo $router->resolve($_SERVER['REQUEST_URI'], strtolower($_SERVER['REQUEST_METHOD']));

namespace app;

class Home {
    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(){ ...
    }
}
```

Call > class Home > method: upload function

url:  
<http://localhost:8080/upload>  
 => method post

# SUPERGLOBAL \$\_POST, \$\_FILES - FILE UPLOAD

```
$router = new Router();
$router
    ->get('/', [app\Home::class, 'index'])
    ->post('/upload', [app\Home::class, 'upload']);
```

Call > class Home > method: upload function

```
echo $router->resolve($_SERVER['REQUEST_URI'], strtolower($_SERVER['REQUEST_METHOD']));
```

```
public function upload(){
    //var_dump($_FILES);
    $filePath = STORAGE_PATH.'/'.$_FILES['receipt']['name'];
    move_uploaded_file(
        $_FILES['receipt']['tmp_name'],
        $filePath
    );
    var_dump(pathinfo($filePath));
}
```



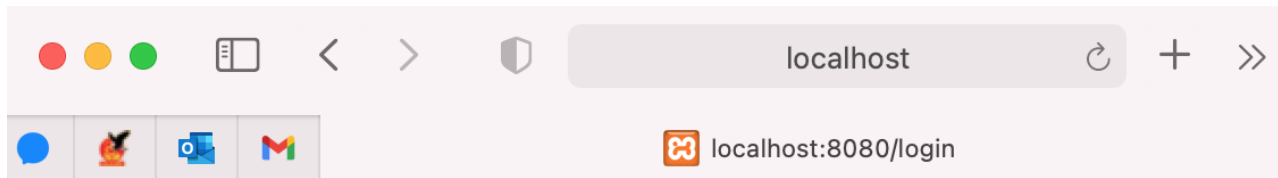
**UPLOAD FILE**



PHẦN 3



## Form login

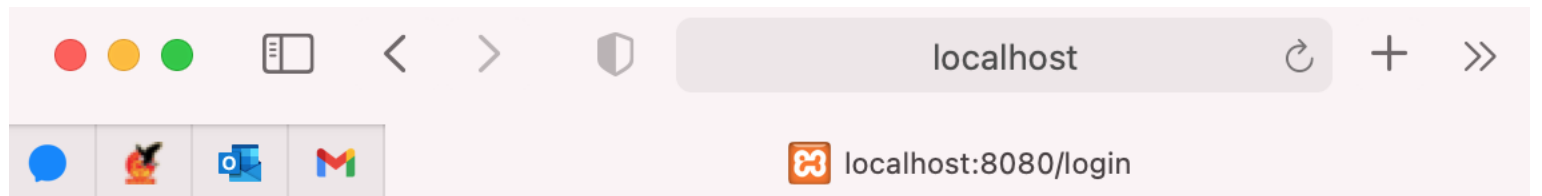


Email

Password

Submit

## Login success



Ta Tram [Logout](#)

# SUPERGLOBAL \$\_POST, \$\_SESSION - LOGIN

```
$router = new Router();
```

```
$router
```

```
->get('/', [app\Home::class, 'index'])
->post('/upload', [app\Home::class, 'upload'])
->get('/login', [app\Login::class, 'login'])
->post('/login', [app\Login::class, 'login'])
->get('/logout', [app\Login::class, 'logout']);
```

url: <http://localhost:8080/login>

=> method: get

Call > class: Login > method:  
login function

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

# SUPERGLOBAL \$\_POST, \$\_SESSION - LOGIN

```
$router = new Router();
$router
->get('/', [app\Home::class, 'index'])
->post('/upload', [app\Home::class, 'upload'])
->get('/login', [app>Login::class, 'login'])
->post('/login', [app>Login::class, 'login'])
->get('/logout', [app>Login::class, 'logout']);
```

Call > class: Login > method: login function

url: <http://localhost:8080/login>  
=> method: post (form submit)

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

# SUPERGLOBAL \$\_POST, \$\_SESSION - LOGIN

```
$router = new Router();
$router
->get('/', [app\Home::class, 'index'])
->post('/upload', [app\Home::class, 'upload'])
->get('/login', [app\Login::class, 'login'])
->post('/login', [app\Login::class, 'login'])
->get('/logout', [app\Login::class, 'logout']);
```

Call > class: Login > method: login function

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

```
if(isset($_POST['submit'])){
    $this->email = $_POST['email'];
    $this->pwd = $_POST['password'];
    $this->loginUser();
    header("location:/login");
}
```

# loginUser & getUser: Model or Controller ?

```
public function loginUser() {
    if($this->emptyInput()==false){
        header("location:/register?error=emptyInput");
        exit();
    }

    if($this->invalidEmail()==false){
        header("location:/register?error=email");
        exit();
    }

    $this->getUser($this->email, $this->pwd);
}
```

```
protected function getUser($email,$pwd){
    $stmt = $this->connect()->query("SELECT * FROM users WHERE email='{ $email}'");

    if($stmt->num_rows == 0){
        $stmt = null;
        header("location:login?error=usernotfound");
        exit();
    }

    $user = $stmt->fetch_array(MYSQLI_ASSOC); //one row

    $checkpwd = password_verify($pwd,$user['password']);
    if($checkpwd==false){
        $stmt = null;
        header("location:login?error=wrongpassword");
        exit();
    } else if($checkpwd==true){
        $_SESSION['user'] = $user;
    }
}
```

## Class: Database

```
class Database
{
    protected function connect(){
        try {
            $servername = "192.168.64.2";
            $username = "tram";
            $password = "ZMu0eX@F*F(xYN65";
            $dbname = "mvc_framework";

            // $conn = mysqli_connect($servername,$username, $password);
            $conn = new mysqli($servername, $username, $password, $dbname);

            if (!$conn) {
                // die("Connection failed: ". mysqli_connect_error());
                die("Connection failed: ". $conn->connect_error());
            }
            // echo "Connected successfully";
            return $conn;
        } catch (Exception $e) {
            print "Error: " . $e->getMessage();
            die();
        }
    }

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

## Class: Login sử dụng method connect?

```
protected function getUser($email,$pwd){
    $stmt = $this->connect()->query("SELECT * FROM users WHERE email='{ $email}'");

    if($stmt->num_rows == 0){
        $stmt = null;
        header("location:login?error=usernotfound");
        exit();
    }

    $user = $stmt->fetch_array(MYSQLI_ASSOC); // one row

    $checkpwd = password_verify($pwd,$user['password']);
    if($checkpwd==false){
        $stmt = null;
        header("location:login?error=wrongpassword");
        exit();
    } else if($checkpwd==true){
        $_SESSION['user'] = $user;
    }
}
```

# Class: Login

```

if(isset($_SESSION['user'])) { Login success > show user & logout
    $fname = $_SESSION['user']['firstname'];
    $lname = $_SESSION['user']['lastname'];
    return "{ $lname } { $fname } <a href='/logout'>Logout</a>";
} else { Not login > show login form
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</button>
</form>';
}

```

*Request method  
logout?*

*Class & method  
function?*

## Class: Login

```
public function logout() {  
    session_unset();  
    session_destroy();  
    header("location: /");  
}
```

Request method logout: GET

method function: logout



```
$router = new Router();  
$router  
    ->get('/', [app\Home::class, 'index'])  
    ->post('/upload', [app\Home::class, 'upload'])  
    ->get('/login', [app>Login::class, 'login'])  
    ->post('/login', [app>Login::class, 'login'])  
    ->get('/logout', [app>Login::class, 'logout']);
```





**LOGIN**

- ☑ Form & File Uploads
- ☑ Login & Regist system
  - ❖ Login



thank  
you!