



THỰC HỌC – THỰC NGHIỆP



Conceive Design Implement Operate

## LẬP TRÌNH PHP2

### PHP OOP VỚI DATABASE

## 🎯 Login & Regist system (tiếp tục)

- ❖ Login sử dụng PDO
- ❖ Regist
- ❖ Regist sử dụng PDO





PHẦN 1

```
private PDO $pdo;

public function __construct(array $config)
{
    $defaultOptions = [
        PDO::ATTR_EMULATE_PREPARES => false,
        PDO::ATTR_DEFAULT_FETCH_MODE => PDO::FETCH_ASSOC,
    ];

    try {
        $this->pdo = new PDO(
            $config['driver'] . ':host=' . $config['host'] . ';dbname=' . $config['database'],
            $config['user'],
            $config['pass'],
            $config['options'] ?? $defaultOptions
        );
    } catch (\PDOException $e) {
        throw new \PDOException($e->getMessage(), (int) $e->getCode());
    }
}

public function __call(string $name, array $arguments)
{
    return call_user_func_array([$this->pdo, $name], $arguments);
}
```

???

# LOGIN SYSTEM (CONT) – DATABASE USING PDO

```
private PDO $pdo;

public function __construct(array $config)
{
    $defaultOptions = [
        PDO::ATTR_EMULATE_PREPARES => false,
        PDO::ATTR_DEFAULT_FETCH_MODE => PDO::FETCH_ASSOC,
    ];

    try {
        $this->pdo = new PDO(
            $config['driver'] . ':host=' . $config['host'] . ';dbname=' . $config['database'],
            $config['user'],
            $config['pass'],
            $config['options'] ?? $defaultOptions
        );
    } catch (\PDOException $e) {
        throw new \PDOException($e->getMessage(), (int) $e->getCode());
    }
}

public function __call(string $name, array $arguments)
{
    return call_user_func_array([$this->pdo, $name], $arguments);
}
```

From .env file **HOW?**

mvc\_simple > {} composer.json > ...

```

1  {
2      "name": "vlucas/phpdotenv",
3      "authors": [
4          {
5              "name": "Vladimir Lucas",
6              "email": "vlucas@phpdotenv.com",
7              "homepage": "https://github.com/vlucas/phpdotenv"
8          }
9      ],
10     "require": {
11         "php": ">=5.4"
12     }
13 }
```

This is an object of namespaces (k  
(values, can be arrays of paths) by

Install vlucas/phpdotenv

## Index.php

```
$dotenv = Dotenv\Dotenv::createImmutable(__DIR__);
$dotenv->load();
var_dump($_ENV);
```

## Class config

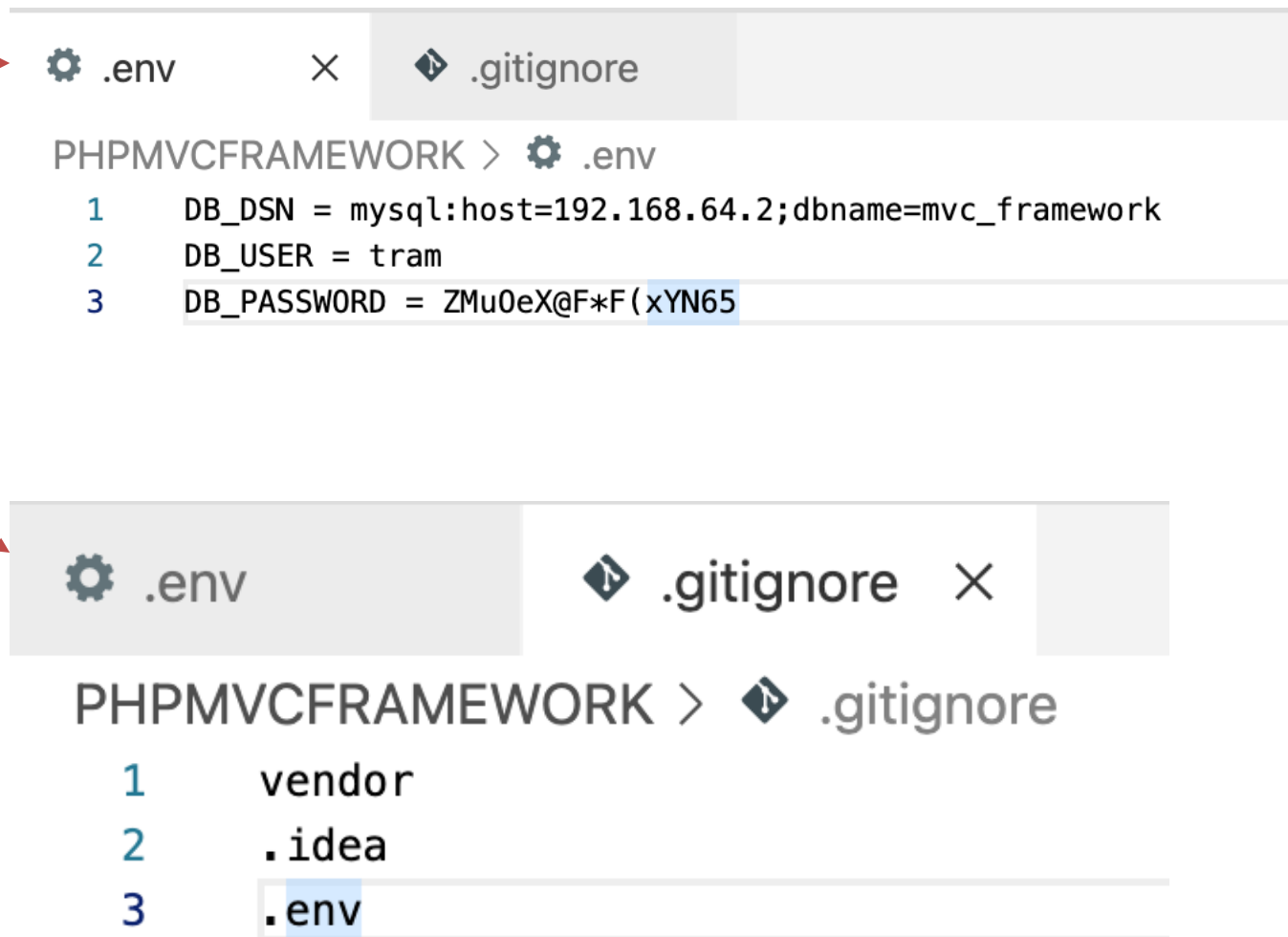
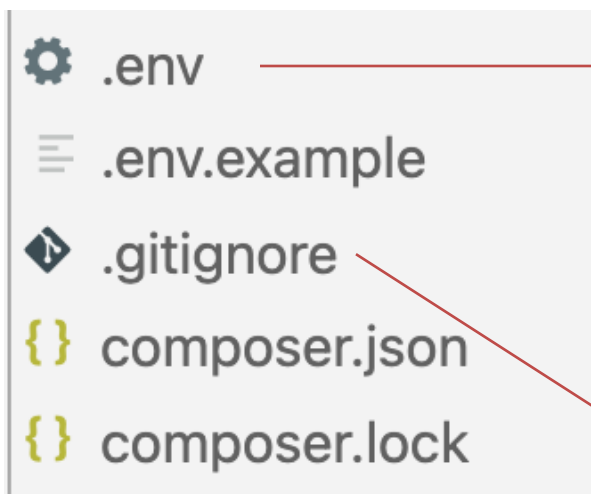
```
class Config
{
    protected array $config = [];

    public function __construct(array $env)
    {
        $this->config = [
            'db' => [
                'host' => $env['DB_HOST'],
                'user' => $env['DB_USER'],
                'pass' => $env['DB_PASS'],
                'database' => $env['DB_DATABASE'],
                'driver' => $env['DB_DRIVER'] ?? 'mysql',
            ],
        ];
    }

    public function __get(string $name)
    {
        return $this->config[$name] ?? null;
    }
}
```

\*\*\*Giảng viên có thể gợi ý các thư viện tương tự

## □ Cấu trúc



\*\*\*Giảng viên có thể gợi ý các thư viện tương tự



❑ Chú ý (đây chỉ là gợi ý)

```
$tableName = $this->tableName();  
$attributes = array_keys($where);  
$sql = implode("AND ", array_map(fn($attr) => "$attr = :$attr", $attributes));  
$statement = self::prepare("SELECT * FROM $tableName WHERE $sql");  
foreach($where as $key => $item){  
    $statement->bindValue(":$key", $item);  
}  
  
$statement->execute();  
return $statement->fetchObject(static::class);  
//SELECT * FROM $tableName WHERE email= :email AND firstname = :firstname
```



**LOGIN – PHP OOP VÀ PDO**



PHẦN 2

```
$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'])
->get('/register', [app\Register::class, 'register'])
->post('/register', [app\Register::class, 'register']);
```

???

url:

<http://localhost:8080/register>

request method: **GET**

action > class: Register >

method register function

```
$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'])
->get('/register', [app\Register::class, 'register'])
->post('/register', [app\Register::class, 'register']);
```

???

**Class: Register**

```
//view
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="Su
</form>';
```

```
$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'])
->get('/register', [app\Register::class, 'register'])
->post('/register', [app\Register::class, 'register']);
```

url:

<http://localhost:8080/register>

request method: **POST**

action > class: Register >

method register function

**Class: Register**

```
//view
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="Su
</form>';
```

```
$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'])
->get('/register', [app\Register::class, 'register'])
->post('/register', [app\Register::class, 'register']);
```

Class: Register  
Register method

```
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: /");
}
```

Class: Register  
Register method

```
//view
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="Su
    </form>';
```

```
protected function signupUser(){

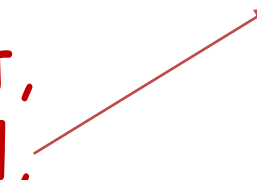
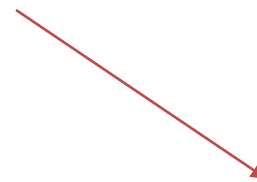
    if($this->emptyInput()==false){
        header("location:/register?error=emptyInput");
        exit();
    }
    if($this->invalidEmail()==false){
        header("location:/register?error=email");
        exit();
    }
    if($this->pwdMatch()==false){
        header("location:/register?error=passwordMatch");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

    $this->setUser($this->fname, $this->lname, $this->pwd, $this->email);
}
```

signupUser

emptyInput,  
invalidEmail,  
pwdMatch

Controller  
hay Model?





```
protected function setUser($fname, $lname, $pwd, $email){
    $status = 0;
    $now = date("Y-m-d H:i:s");
    $hashedPwd = password_hash($pwd, PASSWORD_DEFAULT);

    $params = [$email, $fname, $lname, $status, $now, $hashedPwd];
    $INSERT = "INSERT INTO `users`(`email`, `firstname`, `lastname`, `status`, `created_at`, `password`) VALUES
    ('{$email}', '{$fname}', '{$lname}', {$status}, '{$now}', '{$hashedPwd}')";
    $stmt = $this->connect()->query($INSERT);

    $resultCheck = '';
    if ($stmt === FALSE) {
        $resultCheck = false;
        $stmt = null;
        header("location:register?error=stmtfailed");
        exit();
    } else {
        $resultCheck = true;
    }

    return $resultCheck;
}
```

setUser: Controller hay Model?

## □ Gợi ý các validate (method nào là controller, model)

```
public function emptyInput(){
    $result = null;
    if(empty($this->fname) || empty($this->lname) || empty($this->pwd)
    || empty($this->pwdRepeat) || empty($this->email)){
        $result = false;
    } else {
        $result = true;
    }
    return $result;
}

public function invalidEmail(){
    $result = null;
    if(!filter_var($this->email, FILTER_VALIDATE_EMAIL)){
        $result = false;
    } else {
        $result = true;
    }
    return $result;
}
```

## □ Gợi ý các validate (method nào là controller, model)

```
public function pwdMatch(){  
    $result = null;  
    if($this->pwd !== $this->pwdRepeat){  
        $result = false;  
    } else {  
        $result = true;  
    }  
    return $result;  
}
```

```
public function emailTakenCheck(){  
    $result = false;  
    if($this->checkUser($this->email)){  
        $result = false;  
    } else {  
        $result = true;  
    }  
    return $result;  
}
```

## □ Gợi ý các validate (method nào là controller, model)

```
protected function checkUser($email){  
    $stmt = $this->connect()->prepare('SELECT * FROM users WHERE email=?');  
    if(!$stmt->execute($email)){  
        $stmt = null;  
        header("location:register?error=stmtfailed");  
        exit();  
    }  
    $stmt->close();  
    $resultCheck = true;  
    if($stmt->num_rows > 0){  
        $resultCheck = false;  
    }else{  
        $resultCheck = true;  
    }  
    return $resultCheck;  
}
```

demo

**REGIST**

## ❑ Chú ý (đây chỉ là gợi ý)

```
$tableName = $this->tableName();  
$attributes = $this->attributes();  
$params = array_map(fn($attr) => ":$attr", $attributes);  
$statement = self::prepare("INSERT INTO $tableName (".implode(',', $attributes).")  
VALUES(implode(',', $params).")");  
//var_dump($statement, $params, $attributes);  
foreach($attributes as $attribute)  
{  
    $statement->bindValue(":$attribute", $this->{$attribute});  
}  
$statement->execute();  
return true;
```



**REGIST – PHP OOP VÀ PDO**

## ☑ Login & Regist system (tiếp tục)

- ❖ Login sử dụng PDO
- ❖ Regist
- ❖ Regist sử dụng PDO





thank  
you!