Laravel Framework

Modern Website Building

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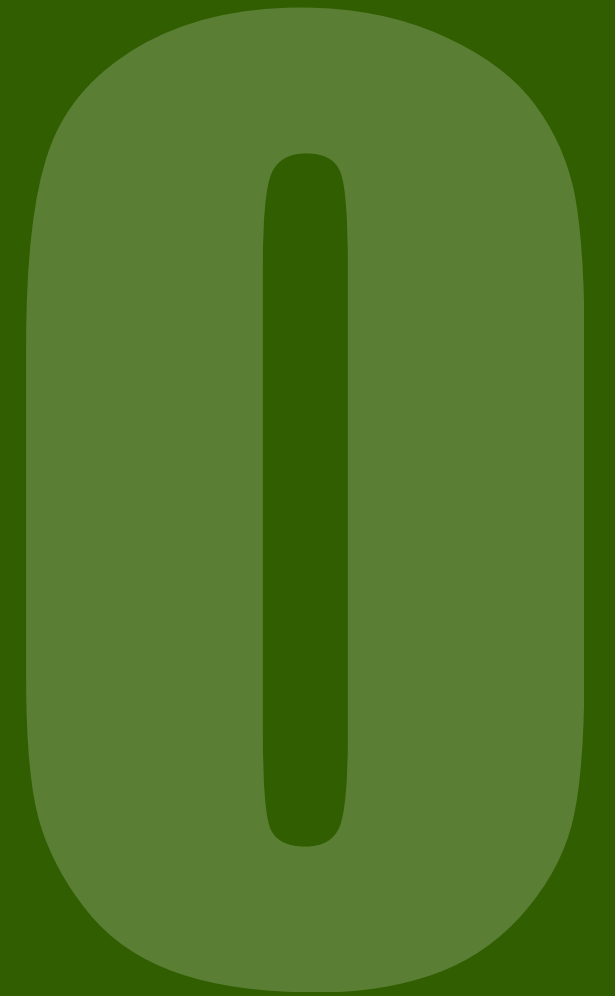
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Why Laravel ?

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What Is Web Framework

把麻煩的事簡單化
把重複的事自動化

The Basic Features

- 有效率地處理使用者的請求。
- 用更抽象化的方式處理資料內容。
- 有效管理與整合前端文件。
- 快速回應各種不同格式的內容。
- 提供基本的安全防護。
- 完整的文件。
- 易於擴充與佈署。

How to choose ?

About Laravel Framework

- **Taylor Otwell** 於 **2011** 年 **4** 月發表
- **MIT License**
- 基於 **PHP 5.3** 的 **MVC Framework**
- 豐富而完整的文件
- 易懂的 **API** 用法
- 易於擴充新功能

http://laravel.com/

Classy & Fluent Interface

```php
return Redirect::to('login')
        ->with_input();
$comments = Post::find(1)->comments;
Asset::container('footer')
        ->add('example', 'js/example.js');
$url = URL::to_secure('some/uri');
```

Environment

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Environment

- 開發 / 本機
- 測試
- 正式

Configurations

- 資料庫主機 IP
- 網址
- 除錯策略
- …

paths.php

```php
$environments = array(
    'production' => array(
        'http://www.example.com*'),
    'testing' => array(
        'http://test.example.com*'),
    'local' => array(
        'http://localhost*', '*.dev'),
);
```

application/config

application/config/*.php

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application/config/**production**/*.php

application/config/**testing**/*.php

application/config/**local**/*.php

Command Line

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artisan

http://laravel.com/docs/artisan/tasks

Task

```
php artisan migration
php artisan key:generate
php artisan test
```

Custom Task

```php
// application/tasks/notify.php

class Notify_Task
{
    // php artisan notify taylor
    public function run($arguments)
    {
        // Do awesome notifying...
    }


    // php artisan notify:urgent
    public function urgent($arguments)
    {
        // This is urgent!
    }
}
```

Migration

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Problems

- 快速建立正式與測試資料庫
- 管理 **SQL** 檔案
- 還原成前一版的 **Schema**
- 切換 **DBMS**

Migration

```
php artisan migrate:install

php artisan migrate:make create_users_table
```

Migration

```php
class Create_Users_Table
{
    public function up()
    {
        Schema::table('users', function($table)
        {
            $table->create();
            $table->increments('id');
            $table->string('username');
            $table->string('email')->unique();
            $table->timestamps();
        });
    }

    public function down()
    {
        Schema::drop('users');
    }
}
```

Migration

```
php artisan migrate // 執行 migration

php artisan migrate:rollback // 撤消上一步
```

http://laravel.com/docs/database/migrations

Autoloading

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Get Classes

- require
- require_once
- autoload (PHP 5)

Autoloader::directories

```
Autoloader::directories(array(
    path('app') . 'entities',
    path('app') . 'repositories',
));
```

http://laravel.com/docs/loading

Autoloader::map

```
Autoloader::map(array(
    'User'    => path('app').'models/user.php',
    'Contact' => path('app').'models/contact.php',
));
```

Autoloader::namespaces

```
Autoloader::namespaces(array(
    'Doctrine' => path('libraries') . 'Doctrine',
    'Zend' => path('libraries') . 'Zend',
));
```

Autoloader::underscored

```
Autoloader::underscored(array(
    'Swift' => path('libraries') . 'SwiftMailer',
));
```

Alias

```php
// application/config/application.php
array(
    'aliases' => array(
        'Asset'      => 'Laravel\\Asset',
        'Autoloader' => 'Laravel\\Autoloader',
        // ...
    ),
);
```

Routing

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User-Friendly URLs

http://www.example.com/2012/08/first-article

http://www.example.com/my/articles

RESTful URLs

http://www.example.com/category/2

http://www.example.com/category/item/5

Event-Driven Routing

```
Route::get('/', function()
{
    return "Hello World!";
});
```

RESTful Routing

```
Route::get('user/(:num)', function($id)
{
    // Get user information
});


Route::put('user/(:num)', function($id)
{
    // Update user information
});
```

Controller Routing

```php
// application/routes.php

Route::controller(Controller::detect());
```

Input

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HTTP Request

- **GET (Query String)**
- **POST (Form)**
- **COOKIE**
- **FILES**

Input & Cookie

```
Input::get($key); // All inputs
Input::query($key); // Query String
Input::file($key); // Files
Input::json();
$name = Cookie::get('name');
Cookie::put('name', 'Jace', 60);
```

Redirecting With Old Input

```
return Redirect::to('login')
        ->with_input();

// Get old input
Input::flash();
$name = Input::old('name');
```

http://laravel.com/docs/input#redirecting-with-old-input

Validation

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Do Not Trust User Input Directly

Do Not Trust User Input Directly

在 **FB** 上拿到的正妹照
千萬不要急著塞到資料褲庫

Validator

```php
$input = Input::all();

$rules = array(
    'name'  => 'required|max:50',
    'email' => 'required|email',
);

$validation =
    Validator::make($input, $rules);

if ($validation->fails()) {
    return $validation->errors;
}
```

Data Abstraction

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ORM

~~ORM~~

Orz

Eloquent ORM

Has One

```
class User extends Eloquent
{
    public function phone()
    {
        return $this->has_one('Phone');
    }
}

$phone = User::find(1)->phone;
```

Belongs To

```php
class Phone extends Eloquent
{
    public function user()
    {
        return $this->belongs_to('User');
    }
}

echo Phone::find(1)->user->email;
```

Has Many

```
class Post extends Eloquent
{
    public function comments()
    {
        return $this
            ->has_many('Comment');
    }
}

$comments = Post::find(1)->comments;
```

http://laravel.com/docs/database/eloquent

Output

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View

```
Route::get('/', function()
{
    return View::make('home.index');
});
```

application/views/home/index.blade.php

http://laravel.com/docs/views

View In Controller

```php
public function action_index()
{
    return View::make('home.index')
            ->with('template_var', 'value');
}
```

JSON

```
Response::json(array('name' => 'Batman'));

Response::eloquent(User::find(1));
```

Assets

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Assets Dependency

jQuery Form   **jQuery UI**

jQuery

Global Registration

```php
Asset::add('jquery', 'js/jquery.js');
Asset::add('jquery-ui',
           'js/jquery-ui.js', 'jquery');

<?php echo Asset::styles(); ?>
<?php echo Asset::scripts(); ?>
```

Namespace Registration

```php
Asset::container('footer')
        ->add('example', 'js/example.js');

<?php echo Asset::container('footer')
            ->scripts(); ?>
```

http://laravel.com/docs/views/assets

Bundles

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Bundles In Laravel

http://bundles.laravel.com/

Bundle Installation

```
php artisan bundle:install bundle_name
```

```php
// application/bundles.php
return array(
    'docs' => array('handles' => 'docs'),
    'bundle_name' // 註冊 bundle
);
```

Bundle Tasks

```
class Admin_Generate_Task
{
    public function run($arguments)
    {
        // Generate the admin!
    }
}


php artisan admin::generate
```

http://laravel.com/docs/bundles

Summary

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Other Features

- **Form**

- **Errors & Logging**

- **Localization**

- **Authentication**

- **IoC Container**

- **Unit Testing**

http://laravel.com/docs

The Points

- **Is Good MVC ?**
- **Secure Request**
- **Fast Response**
- **Simply Data Handling**
- **Extendable**

Framework

是用來解決問題
而不是用來製造問題的

Thank you