# Laravel

## Get the Laravel framework

Install composer first

composer create-project laravel/laravel example 🡪 **Creates a folder**

composer create-project laravel/Laravel 🡪 **Current folder**

## Understanding the namespace

Folder structure

* app
  + Http 🡪 *route.php*
* *Photon.php* 🡪 class Photon {}
* *Another.php* 🡪 class Photon {} **namespace Eastern**
* *Narzia.php* 🡪 class Narzia {} **namespace Paradise**

### Accessing the classes

#### app/Http/route.php

**namespace Eastern;**

$photon = new **Photon;** 🡪 Accessing the class in Eastern namespace

$photon = new **\Photon** 🡪Accessing the class in Global namespace

$narzia = new **\Paradise\Narzia** 🡪 Accessing the class in Paradise namespace

**or**

namespace Eastern;

**use Paradise\Narzia;**

$photon = new **Photon;** 🡪 Accessing the class in Eastern namespace

$photon = new **\Photon** 🡪Accessing the class in Global namespace

$narzia = new **Narzia** 🡪 Accessing the class in Paradise namespace

### Aliasing

namespace Targaryen;

use Dothraki\Daenerys as Khaleesi;

class Daenerys{}

$daenerys = new Daenerys;

$khaleesi = new Khaleesi;

## JavaScript Object Notation [JSON]

### JSON Encode

**json\_encode**(

[

[

“id” => 1

“name“ => “Photon Khan”

],

[

“id” => 2

“name“ => “Narzia Markel”

]

]

);

**OUTPUT:** [

{

“id”: 1,

“name”: “Photon Khan”

},

{

“id”: 2,

“name”: “Narzia Markel”  
 }

];

### JSON Decode

**OUTPUT AS OBJECT**

$data = json\_decode(‘{“panda”: “awesome”}’);

$data🡪panda;

**OUTPUT AS ARRAY**

$data = json\_decode(‘{“panda”: “awesome”}’, true);

$data[‘panda’];

## Dependency Management using [Composer]

{

*"name"*: "photon/practice",

*"description"*: "Learning to learn",

*"keywords"*: ["learn", "namespace", "php"],

*"homepage"*: "http://sphotonkhan.com",

*"license"*: "MIT",

*"authors"*: [

{

*"name"*: "Shabuktagin Photon Khan",

*"email"*: "khan.photon@gmail.com",

*"homepage"*: "http://sphotonkhan.com",

*"role"*: "Web Developer"

}

],

*"require"*: {

*"xmen/wolverine"* : ">1.0.0, <1.0.2",

*"xmen/cyclope"* : "1.0.\*",

*"xmen/storm"*: "=<2.0.0",

*"xmen/gambit"*: "=>1.5.1"

}

}

### Developer Branch Name

{“xmen/gambit”: “dev-branchname”}

### Developer Master Branch

{

“require”:{

“xmen/gambit”: “dev-master”

},

“minimum-stability”: “dev”

}

### Development Dependencies

{

“require”:{

“xmen/gambit”: “dev-master”

},

“require-dev”: {

“codeception/codeception”: “1.6.0.3”

}

}

### Conflicting Packages

{

“conflict”:{

“xmen/gambit”: “dev-master”

},

}

### Replacements

{

“replace”:{

“xmen/gambit”: “dev-master”

},

}

### Provisions

{

“provide”:{

“xmen/gambit”: “dev-master”

},

}

### Suggestions

{

“suggest”:{

“xmen/gambit”: “dev-master”

},

}

## Autoloading

### To load the files (Not preferable)

{

“autoload”: {

“files”: [

“path/to/my/firstfile.php”,

“path/to/my/secondfile.php”

]

}

}

### To load the classes (Not preferable)

{

“autoload”: {

“classname”: [

“src/Models”,

“src/Controller”

]

}

}

### Namespaces matches up with the directory

{

“autoload”: {

“psr-4”: {

“Dayle**\\**Blog**\\**”: “src”

}

}

}

Dayle\Blog\Content\Post 🡪 src/Content/Post

It is important to have the double backslash

#### Example

Folder Structure

**Root**

* Eastern
  + BuildingOne
  + BuildingTwo
    - ***Photon.php***
* Paradise
  + BuildingOne
    - ***Narzia.php***
  + BuildingTwo
* **composer.json**
* read.php
* read2.php
* read3.php

##### Photon.php

1. <? php
2. namespace Eastern;
3. class Photon {
4. public
5. function \_\_construct() {
6. echo“ I am Photon”;
7. }
8. }

##### Narzia.php

1. <? php
2. namespace Paradise;
3. class Narzia {
4. public
5. function \_\_construct() {
6. echo“ I am Narzia”;
7. }
8. }

##### composer.json

{

“autoload”: {

“psr-4”: {

“Eastern\\”: “Eastern/BuildingTwo/”,

“Paradise\\”: “Eastern/BuildingOne/”,

}

}

}

##### read.php

1. <?php
2. namespace Eastern;
3. require\_once $\_SERVER['DOCUMENT\_ROOT']."/study/Namespace/vendor/autoload.php";
4. $photon = new Photon();
5. echo“ < br / > ”;
6. $narzia = new\ Paradise\ Narzia();

##### read2.php

1. <?php
2. namespace Reading;
3. require\_once $\_SERVER['DOCUMENT\_ROOT']."/study/Namespace/vendor/autoload.php";
4. $photon = new\ Eastern\ Photon();
5. echo "<br/>";
6. $narzia = new\ Paradise\ Narzia();

##### read3.php

1. <?php
2. namespace Reading;
3. require\_once $\_SERVER['DOCUMENT\_ROOT']."/study/Namespace/vendor/autoload.php";
4. use Eastern as e;
5. use Paradise as p;
6. $photon = new e\ Photon();
7. echo "<br/>";
8. $narzia = new p\ Narzia();

## Configuration

### Accessing the configuration values

We can access the configuration values in two ways

* Facade
  + Config∷get(‘app.debug’, false)
* Helper
  + config(‘app.debug’, false)

### Dissecting the app.debug

app . debug

{“app.php”} {“array key from app.php”}

The env() function is the new way of making different configuration possible in different environments but .env file is available locally in Laravel framework.

We can use $host = env(‘DB\_HOST’, ‘127.0.0.1’)

However, it is heavily discouraged since it cant cache values from environmental variables, so if we choose to use env() outside of the PHP configuration files then we might end up getting into a caching mess.

### Caching

php artisan config:cache

php artisan config:clear

## Basic Routing

Go to the **routes folder** then click on *web.php*

### Normal Routing

Route::get('/home', function(){

return "Home Page";

});

If we go to *localhost/laravel/public/home* 🡪 *Home Page* will show up

### **Anonymous function/Closure Routing**

$logic = **function(){**

**return “Contact Us”**

**};**

Route∷get(‘/contact’, $logic);

If we go to *localhost/laravel/public/contact*🡪 *Contact Us* will show up

### Route Parameters

Route∷(“/information/**{department}**”, function(**$department**){

**return “{$department}”;**

});

### Optional Parameters

*Route*::get("/partners/**{name?}**", *function*(**$name = null**){

if($name == null){

return "Sorry, we couldn't find any partners";

}else{

return "{$name}";

}

});

### Some of the routing verbs

Route∷get();

Route∷post();

Route∷put();

Route∷patch();

Route∷delete();

Route∷any();

## Views

Go to resources 🡪 then to views 🡪 then create *simple.php*

### simple.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Page Title</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<p> Welcome to the category page</p>

</body>

</html>

**Update the *routes/web.php***

### web.php

Route∷get(“/category”, function(){

return View∷make(‘simple’);

});

### Passing array of data in the route

Route∷get(“/category/{some\_data?}”, function($some\_data = null){

if($some\_data == null){

$data[‘some\_data’] = $some\_data;

return View∷make(‘simple’, $data);

}

else{

return View∷make(‘simple’);

}

});

### Redirecting the Route

*Route*::get("/outsource", *function*(){

return *Redirect*::to('/');

});

### Custom Responses

Route∷get(‘/custom/response’, function(){

return Response∷make(‘Hello world’, 200);

});

#### Custom Header

Route∷get(‘/custom/response2’, function(){

$response = Response∷make(‘Hello World’, 200);

$response🡪headers🡪set(‘Content-Type’, ‘text/html’);

return $response;

});

We can also set the time-to-live value (TTL) for shared caches

Route∷get(‘/custom/response2’, function(){

$response = Response∷make(‘Hello World’, 200);

$response🡪setTtl(60);

return $response;

});

#### JSON Response

Route∷get(‘/get/json’, function(){

$data = [‘superman’, ‘spiderman’, ‘batman’];

return Response∷json($data);

});

#### Download Response

*Route*::get('/file/download', *function*(){

$file = $\_SERVER['DOCUMENT\_ROOT']."/laravel/resources/img/vscode\_shortcuts.pdf";

return *Response*::download($file);

});

#### Download a file with status & header

*Route*::get('/file/download', *function*(){

$file = $\_SERVER['DOCUMENT\_ROOT']."/laravel/resources/img/vscode\_shortcuts.pdf";

return *Response*::download($file, ‘vscode.pdf’, [‘iron’, ‘man’]);

});

## Blade Templating

### /routes/web.php

*Route*::get('blade/index', *function*(){

$data = ["header" => "Blade Index", "heading" => "Welcome to the blade index page"];

return *View*::make('index', $data);

});

### /resources/views/index.blade.php

<!DOCTYPE html>

<html lang = 'us'>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title> **{{ $header }}** </title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<div class = 'container'>

<div class = 'row'>

<div class = 'col'>

<h1> **{{ $heading }}** </h1>

</div>

</div>

</div>

</body>

</html>

### Plug-In Functions

<div class = ‘row’>

<div class = ‘col’>

<span>Current Date ∷ **{{ date(‘d/m/y’) }}** </span>

</div>

</div>

### Control Statements

#### if/else

**@if($control == 'yes')**

<p> Well done!</p>

**@elseif($control == 'no')**

<p> Sorry, for your loss</p>

**@else**

<p> Nothing </p>

**@endif**

#### foreach

**@foreach ($countries as $country)**

<p>{{ $country }}</p>

**@endforeach**

#### forloop

**@for($i = 0; $i < count($countries); $i++)**

<p>{{ $countries[$i] }}</p>

**@endfor**

#### while

{{ $i = 0}}

**@while($i < count($countries))**

<p>{{ $countries[$i] }}</p>

<p>{{ $i++ }}</p>

**@endwhile**

#### unless

**@unless($control == 'yes')**

<p> Well done!</p>

**@endunless**

### Template for Inclusion

#### routes/web.php

*Route*::get('blade/template', *function*(){

return *View*::make('main');

});

#### resources/views/main.blade.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Template Testing</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<div class = 'container'>

**@include('header')**

<div class = 'row'>

<div class = 'col'>

<span> Just starting my contents over here </span>

</div>

</div>

**@include('footer')**

</div>

</body>

</html>

#### resources/views/header.blade.php

<div class = 'row'>

<div class = 'col'>

<span>Welcome to my page! I am here to start new things </span>

</div>

</div>

#### resources/views/footer.blade.php

<div class = 'row' style = 'margin-top: 500px'>

<div class = 'col'>

<div class = 'footer'>

<span>2018 &copy; All Right Reserved | Photon Enterprise </span>

</div>

</div>

</div>

### Template Inheritance

#### routes/web.php

*Route*::get('blade/inheritance', *function*(){

return *View*::make('child');

});

#### resources/views/child.blade.php

**@extends('layouts.parent')**

**@section('head')**

**@parent**

<p> Child:: I will tell it here </p>

**@stop**

**@section('body')**

<p> Child: Let me give something to talk about. </p>

**@stop**

#### resources/views/layouts/parent.blade.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Practice Blade Inheritance</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

**@section('head')**

<p>Parent:: I go something to say</p>

**@show**

**@yield('body')**

</body>

</html>

**@yield(‘head’)** ∷ Means the fill the content later

**@section(‘body’)**

//My name is Photon

**@show**

This both together means @yield but by default show some content

**@extends(‘layouts.parent’)**

*/resources/views/layouts/parent.blade.php*

Means “.” is the folder separator in the /resources/views 🡪 layouts∷folder, parent∷file

**@section(‘body’)**

//My name is Photon Khan

**@stop**

This replaces My name is Photon to My name is Photon Khan

**@section(‘body’)**

**@parent**

//My name is Photon Khan

**@stop**

This adds up the content. Therefore, it shows My name is Photon and My name is Photon Khan

### Comment

{{-- This is comment --}}

### JavaScript Support

<script> **@{{javascriptValue}}** </script>

## Request Data

### Request All

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

$data = Request∷all();

var\_dump($data);

});

<http://localhost/laravel/public/dumpdata>

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

$data = Request∷all();

var\_dump($data);

});

*Route*::get('/dumpdata', *function*(){

$data = *Request*::get('foo');

echo "<pre>";

var\_dump($data);

});

//Give only the data of $\_GET[‘foo’]

Route::get('/simpleform', function(){

return View::make('form');

});

#### /resources/views/form.blade.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Form Action to the rescue</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<form action = " {{ **url('/dumpdata')** }}">

**{{csrf\_field()}}**

<input type = 'hidden' name = 'foo' value = 'bar'/>

<input type = 'hidden' name = 'baz' value = 'boo'/>

<input type = 'submit' value = 'send'/>

</form>

</body>

</html>

### Post Request

#### /routes/web.php

*Route*::get('/postform', *function*(){

return *View*::make('postform');

});

*Route*::post('/dumppostdata', *function*(){

$data = *Request*::all();

echo "<pre>";

var\_dump($data);

});

#### /resources/views/postform.blade.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Form Action to the rescue</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<h4> Simple Post + Get Request with hidden forms </h4>

<form action = **"{{ url('/dumppostdata') }}?foo=get&baz=get"**>

{{csrf\_field()}}

<input type = 'hidden' name = 'foo' value = 'bar'/>

<input type = 'hidden' name = 'baz' value = 'boo'/>

<input type = 'submit' value = 'send'/>

</form>

</body>

</html>

It seems the GET data is handled last, and the values are replaced. Now we know that that GET data, takes a higher priority than POST data within request data array.

* Ex: In this situation if we put $\_GET[‘war’] if would give us null since it is not sent from the form. i.e Request∷get(‘war’)
* Ex: In this situation if we put both $\_GET[‘war’] & $\_GET[‘foo’]

i.e Request∷get(‘war’, ‘foo’) we will get “bar” as a string

### Request Has

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

$data = **Request∷has(‘foo’);**

var\_dump($data);

});

If we send a get request from a form it will show us **bool(true)**

### Request Only

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

$data = **Request∷only(‘foo’, ‘baz’);**

var\_dump($data);

});

It returns only the $\_GET[‘…’] variables that we want

### Request Except

Route∷get(‘/dumpdata’, function(){

$data = **Request∷except(‘baz’);**

var\_dump($data);

});

It returns all the $\_GET[‘…’] except the one mentioned over here

### Store request for longer time

#### /routes/web.php

Request∷get(‘/dumpdata’, function(){

return Redirect∷to(‘/new/request/’);

});

Route∷get(‘/new/request’, function(){

var\_dump(Request∷all());

});

When the form sends a request to the dumpdata, it redirects to new/request. Unfortunately, it gives no value in the array. Therefore, to make the redirect work we need to use **Request∷flash()**

Then, use the Request∷old() to let the Laravel know that we want the previous value

#### /routes/web.php

Request∷get(‘/dumpdata’, function(){

**Request∷flash();**

return Redirect∷to(‘/new/request/’);

});

Route∷get(‘/new/request’, function(){

var\_dump(**Request∷old()**);

});

### Flash Only

#### /routes/web.php

Request∷get(‘/dumpdata’, function(){

**Request∷flashOnly(‘foo’);**

return Redirect∷to(‘/new/request/’);

});

Route∷get(‘/new/request’, function(){

var\_dump(**Request∷old()**);

});

### Flash Except

#### /routes/web.php

Request∷get(‘/dumpdata’, function(){

**Request∷flashExcept(‘foo’);**

return Redirect∷to(‘/new/request/’);

});

Route∷get(‘/new/request’, function(){

var\_dump(**Request∷old()**);

});

### Alternative to Flash

#### /routes/web.php

*Route*::get('/dumpdata', *function*(){

return ***Redirect*::to('/new/request')->withInput();**

});

which is equivalent to

*Route*::get('/dumpdata', *function*(){

Request∷flash();

return *Redirect*::to('/new/request');

});

### Alternative to Flash Partial (Flash Only)

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

return **Redirect∷to(‘/new/request’)→withInput(Request∷only(‘foo’));**

});

which is equivalent to

*Route*::get('/dumpdata', *function*(){

Request∷flashOnly(‘foo’);

return *Redirect*::to('/new/request');

});

### Alternative to Flash Partial (Flash Except)

#### /routes/web.php

Route∷get(‘/dumpdata’, function(){

return **Redirect∷to(‘/new/request’)→withInput(Request∷except(‘foo’));**

});

which is equivalent to

*Route*::get('/dumpdata', *function*(){

**Request∷flashExcept(‘foo’);**

return *Redirect*::to('/new/request');

});

### File Upload

#### /resources/views/fileupload.blade.php

<!DOCTYPE html>

<html>

<head>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>File Upload</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

**<form action = "{{url('/filepost')}}" method = 'POST' enctype = 'multipart/form-data'>**

{{csrf\_field()}}

<label for = 'Upload'>File Upload</label><br/>

<input type = 'hidden' name = "MAX\_FILE\_SIZE" value = '524288'/>

<input type = 'file' name = 'upload'/><br/>

<input type = 'submit'/>

</form>

</body>

</html>

#### /routes/web.php

Route::get('/fileupload', function(){

return View::make('fileupload');

});

Route::post('/filepost', function(){

**var\_dump(Request::file('upload'));**

});

#### Procedural PHP to Laravel PHP

*$\_FILES[‘upload’][‘name’]*

file('upload')->**getClientOriginalName() ∷** Original File Name

*photon.pdf*

file(‘upload’)->**getFileName() ∷** Get Temporary File Name

*php2D4D.tmp*

*$\_FILES[‘upload’][‘size’]*

file(‘upload’)->**getClientSize() ∷** File Size

*2370413*

*$\_FILES[‘upload][‘type’]*

file(‘upload’)->**getMimeType() ∷** File Type

*application/pdf, image/jpeg, image/jpg, image/png*

file(‘upload’)->**guessExtension()** ∷ Guesses the Extension of the file

*pdf, jpg*

$\_FILES[‘upload’][‘tmp\_name’]

file(‘upload’)->**getRealPath()** ∷ Get the temporary file location

/tmp/php/php2D4D.tmp

*move\_uploaded\_file($temporary\_location, $destination\_location)*

file(‘upload’)->move(**$\_SERVER['DOCUMENT\_ROOT'].'/laravel/storage/directory/'**);

### Original Filename

#### /routes/web.php

Route∷get(‘/filepost’, function(){

var\_dump(Request∷file(‘upload’)🡪**getClientOriginalName**()):

});

### Temporary Filename

#### /routes/web.php

Route∷get(‘/filepost’, function(){

var\_dump(Request∷file(‘upload’)🡪**getFileName**()):

});

### File Size

#### /routes/web.php

Route∷get(‘/filepost’, function(){

var\_dump(Request∷file(‘upload’)🡪**getClientSize**()):

});

### Get the MIME type

#### /routes/web.php

Route∷get(‘/filepost’, function(){

var\_dump(Request∷file(‘upload’)🡪**getMimeType**()):

});

### Guess the Extension of the files

#### /routes/web.php

*Route*::post('/filepost', *function*(){

echo "<pre>";

var\_dump(*Request*::file('upload'**)->guessExtension**());

});

### Get the Temporary Path

#### /routes/web.php

*Route*::post('/filepost', *function*(){

echo "<pre>";

var\_dump(*Request*::file('upload'**)->getRealPath**());

});

### Move the uploaded file

#### /routes/web.php

Route::post('/filepost', function(){

**Request::file('upload')->move($\_SERVER['DOCUMENT\_ROOT'].'/laravel/storage/directory/');**

return "File was moved";

});

### Move the uploaded file with our designated file name

#### /routes/web.php

*Route*::post('/filepost', *function*(){

$name = *Request*::file('upload')->getClientOriginalName();

***Request*::file('upload')->move($\_SERVER['DOCUMENT\_ROOT'].'/laravel/storage/directory/', $name);**

return "File was moved";

});

## Cookies

*setcookie(*name,value,expire,path,domain,secure,httponly*) 🡪 Set the cookie*

*setcookie(name, “”) 🡪 Delete the cookie*

*$\_COOKIE[name] 🡪 Get the cookie*

#### /routes/web.php

*Route*::get('/createcookie', *function*(){

$cookie = ***Cookie*::make('username', 'khan.photon', 30);**

return ***Response*::make('/readcookie')->withCookie($cookie);**

});

### Get Cookie

#### /routes/web.php

*Route*::get('/readcookie', *function*(){

$cookie = ***Cookie*::get('username');**

var\_dump($cookie);

});

### Has Cookie

#### /routes/web.php

Route::get('/readcookie', function(){

$cookie = Cookie::has('username');

var\_dump($cookie);

});

### Cookie with no expiry

#### /routes/web.php

Route::get('/createcookie', function(){

$cookie = Cookie::forever('username');

return Response∷make(‘/readcookie’)->withCookie($cookie)

});

### Forget the cookie

#### /routes/web.php

Route::get('/createcookie', function(){

$cookie = Cookie::forget('username');

return $cookie;

});

## Advanced Routing

### Named Routes

#### /route/web.php

*Route*::get('/i/like/shortcuts', [**"as" => "shortcuts",**

*function*(){

return *View*::make('shortcuts');

}

]);

#### /resources/views/shortcuts.blade.php

<!DOCTYPE html>

<html>

<head lang = 'en'>

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<title>Shortcuts</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

I like shortcuts

**{{ route('shortcuts') }}**

</body>

</html>

### Redirecting the route

#### /route/web.php

Route::get('/i/like/shortcuts', **["as" => "shortcuts",**

**function(){**

**return View::make('shortcuts');**

**}**

**]);**

Route::get('/redirectshortcuts', function(){

return **Redirect::route('shortcuts');**

});

### Get the name of the current shortcut name

#### /route/web.php

Route::get('/i/like/shortcuts', ["as" => "shortcuts",

function(){

return **Route::currentRouteName()**;

}

]);

### Route with the controller name

#### /route/web.php

*Route*::get('/first/shortcuts', [

**"as" => "shortcuts",**

**"uses" => "FirstController@show"**

]);

*Route*::get('/redirectshortcuts', *function*(){

**return *Redirect*::route('shortcuts');**

});

#### /app/http/controllers/FirstController

namespace **App\Http\Controllers**;

use **App\Http\Controllers\Controller**;

class **FirstController** extends **Controller**{

public function **show()**{

return **view('child')**;

}

}

*For the* ***view(‘child’)*** *🡪 The* ***service method worked*** *but façade didn’t work*

*view(‘child’) ∷ Service Method; View∷make(‘child’) ∷ Façade method*

### Parameter Constraints

#### /route/web.php

Route::get('/save/{name}', function($name){

return "My name is: {$name}";

**})->where('name', '[A-Za-z]+');**

#### /route/web.php

Route::get('/save/{firstname}/{lastname}',

function($firstname, $lastname){

return "My name is : {$firstname} {$lastname}";

**})->where('firstname', '[A-Za-z]+')->where('lastname', '[A-Za-z]+');**

### Route Groups

#### /route/web.php

**Route::group([], function(){**

Route::get('/critical', function(){

return "Critical";

});

Route::get('/medical', function(){

return "Medical";

});

Route::get('/condition', function(){

return "Condition";

});

**});**

### Route Prefix

#### /route/web.php

**Route::group(["prefix" => "books"], function(){**

Route::get('/critical', function(){

return "Critical";

});

Route::get('/medical', function(){

return "Medical";

});

Route::get('/condition', function(){

return "Condition";

});

});

*Therefore the routing name needs to be /books/critical, /books/medical, /books/condition*

### Domain Routing

#### /route/web.php

Route::group(["domain" => "admin.localhost"], function(){

Route::get('/panel', function(){

return "Critical";

});

});

*This group needs to be placed at the top of the file & this do not work in localhost*

#### /route/web.php

Route::group(["domain" => "{user}.admin.localhost:8000"], function(){

Route::get('profile/{page}', function($user, $page){

return "{$user} {$page}";

});

});

*This group needs to be placed at the top of the file & this do not work in localhost*

## Controllers

### Creating Controllers

#### /routes/web.php

Route::group(['prefix' => "article"], function(){

Route::get('/', 'ArticleController@index');

Route::get('/new', 'ArticleController@new');

});

#### /app/Http/Controllers/ArticleController.php

namespace App\Http\Controllers;

use App\Http\Controllers\Controller;

class ArticleController extends Controller{

public function index(){

return view('article');

}

public function new(){

return view('articlenew');

}

}

*Small Reminder: The View∷make(‘article’) won’t work over here!*

*Only the service method works, the façade method do not works*

### Creating Controller using Artisan

artisan make:controller TestingController --resource

#### /apps/Http/Controllers/TestingController.php

TestingController now have several methods

index()

create()

store(Request $request)

show($id)

edit($id),

update(Request $request, $id)

destroy($id)

Instead of writing Route∷group we can now write Route∷resource(‘testing’, ‘TestingController’)

#### /routes/web.php

Route::resource('testing', 'TestingController');

index() [GET] - */testing*∷ Read from the database, Generate links

create() [GET] - */testing/create* ∷ Show the form for adding data in database

store() [POST] - */testing*∷ Handle the form and store it in the database

show($id) [GET] - */testing/{id}*∷ Render the read in index() using the $id

edit($id) [GET] - /testing/{id}/edit∷ Show the form for editing using the $id

update($id) [PUT|PATCH] - */testing/{id}*∷ Updates the data in database

destroy($id) [DELETE] - /testing/{id} ∷ Deletes the data in database

This controller can inject dependency. Therefore, using the dependency injection in controllers means that we no longer use facades like View∷make(‘hello’) or Request∷all(‘hello’). Instead, we inject those components directly.

Add the line below to inject the view

**use Illuminate\Contracts\View\Factory as View;**

## Terminology Building Block

json\_encode($arr) ∷ Converts array into json format

json\_decode($json, bool) ∷ Converts json format to object(false) or array (true)

Route::get('/home', function(){ return “Damn”;}) ∷ Simple Route

Route∷get(‘/home’, $closure) ∷ Anonymous Function in Route

Route∷get(‘/{{random}}’, function($random){return $random}); ∷ Any route

Route∷get(‘/{{random?}}’, function($random){return $random}); ∷ Any route or none

View∷make(‘simple’) ∷ Reads the html/blade file

Redirect∷to(‘/somewhere’) ∷ Redirects the page to ‘/somewhere’

$response = Response∷make(‘Damn Son’, 200) ∷ Creates a custom response

$response→headers()→set(‘Content-Type’, ‘text/html’) ∷ Sets the content type

$response→setTtl(value) ∷ Sets the shared cache value living time

Response∷json($array) ∷ Prints out the json data

Response∷download($file, $alternative\_name, [$status, $header]) ∷ Download file

{{$variable}} ∷ Allows us to access the php variable through blade template

{{date(‘m/d/y’)}} ∷ Allows us to use function to access the current date in html

@if@elseif@else@endif ∷ If/else statement in blade html

@foreach($data as $key => $value)@endforeach ∷ For each statement in blade html

@while($statement)@endwhile ∷ While loop in blade html

@for($i = 0; $i < count($var); $i++)@endfor ∷ For loop in blade html

@unless($statement)@endunless ∷ Unless in blade html

@include(‘file-name’) ∷ Allows us to include other html file in blade

@yield(‘some-var’) ∷ Allows us to include a snippet extending from parent to child

@extends(‘folder.parent\_file’) ∷ Allows child to extend the parent file

@section(‘some-var’)@show ∷ Same like yield but by default it shows something

@section(‘some-var’)@stop ∷ Substitute the element in parents with child

@section(‘some-var’)@parent@stop ∷ Adds the elements of both parents and child

{{-- --}} ∷ Proper way to comment in blade html

@{{}} ∷ Some JavaScript libraries uses this tag Ex: Angular JS, to remove conflict

{{url(‘/your-url’}} ∷ In forms, this allows to forward the message to that page

{{csrf\_field()}} ∷ A hidden token allows to have a distinct form

Request∷all() ∷ Get all the data send from the form

Request∷only(‘var’) ∷ Get selected the data

Request∷except(‘var’) ∷ Get all data except the selected ones

Request∷has(‘var’) ∷ Checks whether this variable is present or not

Request∷flash(),Redirect∷to(‘some-url’),Request∷old() ∷ Get the value from redirected form

Request∷flashOnly(‘var’) ∷ Flash only certain values

Request∷flashExcept(‘var’) ∷ Flash everything except the one chosen

Redirect∷to(‘your-url’)🡪withInput() ∷ Alternative to Flash

Redirect∷to(‘your-url’)🡪withInput(Request∷only(‘var’)) ∷ Alternative to Flash Only

Redirect∷to(‘your-url’)🡪withInput(Request∷except(‘var’)) ∷ Alternative to Flash Except

Request∷file(‘file-name’) ∷ Uploaded file details

Request∷file(‘file-name’)🡪getClientOriginalName() ∷ Get the name of the file

Request∷file(‘file-name’)🡪getFileName() ∷ Get the temporary file name

Request∷file(‘file-name’)🡪getClientSize() ∷ Get the size of the file

Request∷file(‘file-name’)🡪getMimeType() ∷ Get the mime type of the file

Request∷file(‘file-name’)🡪guessExtension() ∷ Get the file extension

Request∷file(‘file-name’)🡪getRealPath() ∷ Get the temporary file path

Request∷file(‘file-name’)🡪move(‘destination\_path’, $desired\_name) ∷ Move uploaded file

Cookie∷make(‘name’, ‘value’, ‘expiry’) ∷ setcookie(‘name’, ‘value’, ‘expiry’)

Cookie∷get(‘name’) ∷ Get the cookie value, alternative to $\_COOKIE[‘name’]

Cookie∷forever(‘name’, ‘value’) ∷ Cookie with no expiry date

Cookie∷has(‘name’) ∷ Does the named cookie exist

Cookie∷forget(‘name’) ∷ Deletes the cookie

Redirect∷to(‘url’)🡪withCookie(Cookie∷make(‘name’, ‘value’, ‘expiry’) ∷ Redirect with cookie

Route∷get(‘/make/a/shortcut’, [‘as’ => “shortcut\_name”, $closure) ∷ Shortcuts to route

Redirect∷route(‘shortcut-name’) ∷ Similar to Redirects∷to(‘url’) but used for shortcuts

{{route(‘shortcut\_name’)}} ∷ Accessing the shortcut name

Route∷CurrentRouteName() ∷ Get the name of the shortcut route name

Route∷get(‘url’, [‘as’ => “shortcut’, “uses” => “controller@method”]) ∷ Advanced Routing

Route∷get(‘url/{{random}}’, function($random){})🡪where(‘random’, ‘RegExp’)

Route∷group([], Route∷get(‘url’, function(){}, … , ….) ∷ Multiple Routes in one group

Route∷group([‘prefix’ => ‘some\_prefix’], Route∷get(‘url’, function(){}, …, )

Route∷group([‘domain’ => ‘some\_prefix’], Route∷get(‘url’, function(){}, …, )

Route∷resource(‘testing’, ‘TestingController’) ∷ Alternative to group names

## Command Lines

composer global require "laravel/installer"

Global Installer Laravel

php artisan serve

Laravel Default server (8000)

php artisan serve --port=8080

Laravel Server at 8080 (change to)

php artisan make:controller NameController –-resource

Create controller using the artisan command line

php artisan list

Gives the list of all the commands