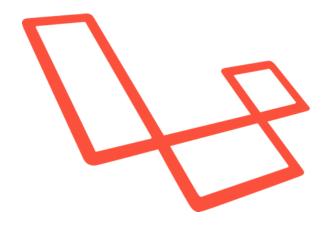
### LARAVEL

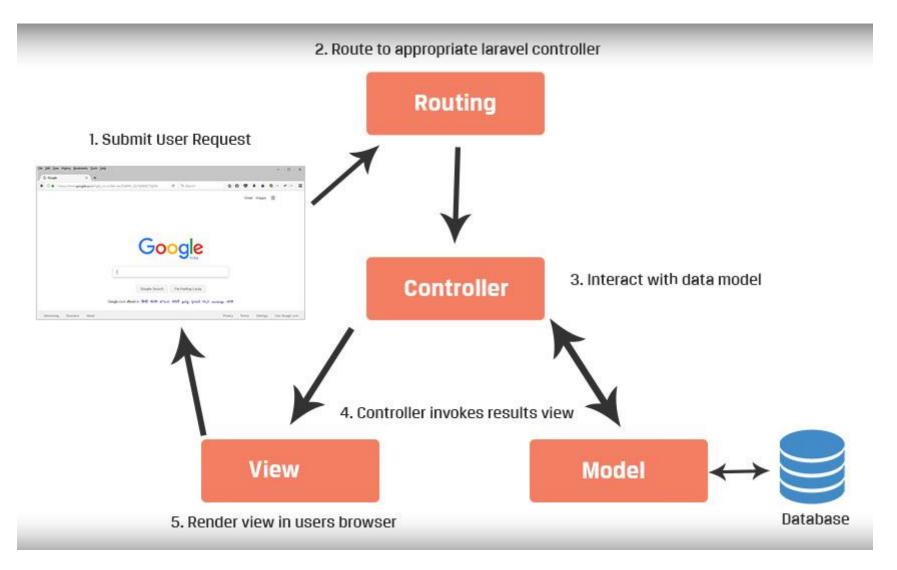
## ROUTE, VIEWS, BLADE TEMPLATES



# Routing

- Basic Routing
- Route Parameters
  - Required Parameters
  - Optional Parameters
  - Regular Expression Constraints
- Named Routes
- Route Groups
  - Middleware
  - Namespaces
  - Sub-Domain Routing
  - Route Prefixes
- Route Model Binding
  - Implicit Binding
  - Explicit Binding
- Form Method Spoofing
- Accessing The Current Route

# Routing



## **Basic Routing**

 Laravel routes: providing a very simple and expressive method of defining routes:

```
Route::get ('/', function () {
    return view('welcome');
} );
```

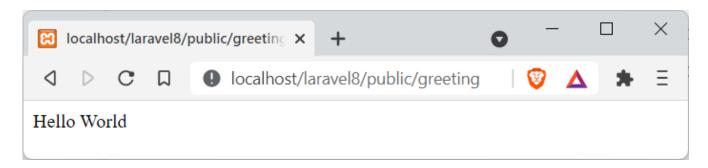
- For most applications, you will begin by defining routes in your routes/web.php file.
- Test: http://localhost/MyProject/public/



## **Basic Routing**

```
Route::get ('greeting', function () {
    return 'Hello World';
} );
```

Test: http://localhost/laravel8/public/greeting



### **Available Router Methods**

 The router allows you to register routes that respond to any HTTP verb:

```
Route::get($uri, $callback);
Route::post($uri, $callback);
Route::put($uri, $callback);
Route::patch($uri, $callback);
Route::delete($uri, $callback);
Route::options($uri, $callback);
```

## **Responds to multiple HTTP**

Using the match method.

```
Route::match (['get','post'], '/', function () {
    return 'Hello World';
} );
```

Or, register a route that responds to all HTTP verbs using the any method.

```
Route::any ('foo', function () {
    return 'Hello World';
} );
```

### **CSRF Protection**

- Any HTML forms pointing to POST, PUT, or DELETE routes that are defined in the web routes file should include a CSRF token field.
- Otherwise, the request will be rejected.

```
<form method="POST" action="/profile">
    @csrf
    ...
</form>
```

### **Redirect Routes**

If you are defining a route that redirects to another URI, you may use the Route::redirect method.

```
Route::redirect('/here', '/there');
```

- By default, Route::redirect returns a 302 status code.
- Customize the status code using the optional third parameter:

```
Route::redirect('/here', '/there', 301);
```

301: chuyển hướng vĩnh viễn. 302: chuyển hướng tạm thời.

### **View Routes**

- Route::view: return a view
- The view method accepts a URI as its first argument and a view name as its second argument.

```
Route::view('/welcome', 'welcome');
```

In addition, you may provide an <u>array of data</u> to pass to the view as an optional <u>third argument</u>:

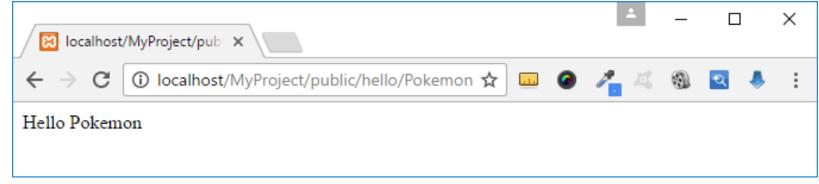
```
Route::view('/welcome', 'welcome', ['name' => 'Tom']);
```

### **Route Parameters**

You may need to capture a user's ID from the URL.
 You may do so by defining route parameters:

```
Route::get ( 'hello/{name}', function ($name) {
    return 'Hello ' . $name;
} );
```

- EX: http://.../public/hello/Pokemon



### **Route Parameters**

 You may define as many route parameters as required by your route:

- Note:
  - Route parameters are always encased within {} braces and should consist of alphabetic characters.
  - Route parameters may **not** contain a character. Use an underscore (\_) instead.

### **Optional Parameters**

Placing a ? mark after the parameter name. Make sure: a default value

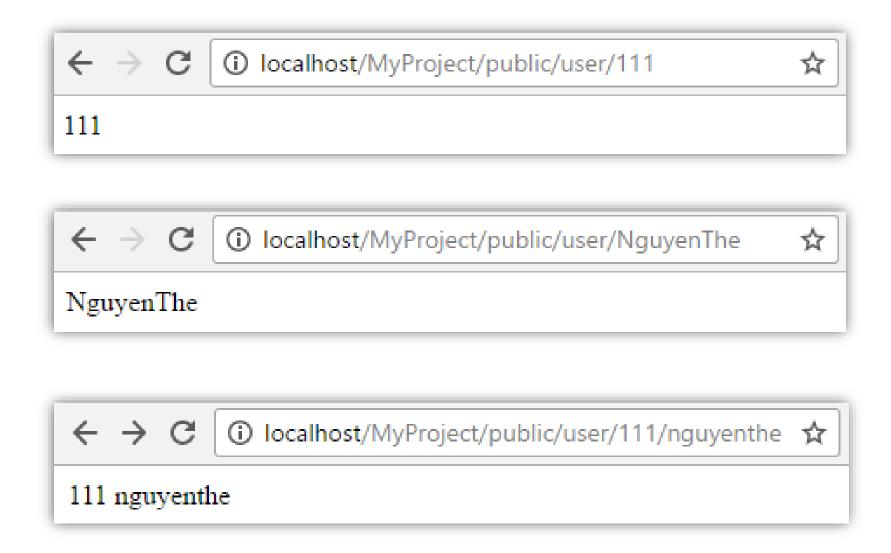
```
Route::get ( 'user/{name?}', function ($name = null) {
        if ($name == null)
                //Response to ...
       else
                //Response to ...
} );
Route::get ( 'user/{name?}', function ($name = 'John') {
        return $name;
} );
                                                                X
  🔀 localhost/MyProject/publ 🗙

    i) localhost/MyProject/public/user ☆
    □

John
```

 Constrain the format of your route parameters using the where method on a route instance.

```
Route::get ( 'user/{name}', function ($name) {
      return $name:
} )->where ( 'name', '[A-Za-z]+' );
Route::get ('user/{id}', function ($id) {
      return $id:
} )->where ( 'id', '[0-9]+' );
Route::get ( 'user/{id}/{name}', function ($id, $name) {
      return $id.''. $name;
} )->where ( [ 'id' => '[0-9]+','name' => '[a-z]+' ] );
```



[abc] A single character of: a, b, or c

[^abc] Any single character except: a, b, or c

[a-z] Any single character in the range a-z

[a-zA-Z] Any single character in the range a-z or A-Z

^ Start of line

\$ End of line

\A Start of string

\z End of string

Any single character

\s Any whitespace character

\S Any non-whitespace character

\d Any digit

\D Any non-digit

\w Any word character (letter, number,

underscore)

\W Any non-word character

\b Any word boundary

(...) Capture everything enclosed

(a|b) a or b

a? Zero or one of a

a\* Zero or more of a

a+ One or more of a

a{3} Exactly 3 of a

a{3,} 3 or more of a

a{3,6} Between 3 and 6 of a

#### options:

i case insensitive

**m** make dot match newlines

**x** ignore whitespace in regex

o perform #{...} substitutions only once

### Regular Expression Constraints - helper methods

Helper methods that allow you to quickly add pattern constraints

```
Route::get('/user/{id}/{name}', function ($id, $name) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                     where($name, '[0-9]+')
})->whereNumber('id')->whereAlpha('name');
                                                                                                                                                                                                                                                                                                                                                                                                                                                     where($name, '[a-zA-Z]+')
 Route::get('/user/{name}', function ($name) {
})->whereAlphaNumeric('name');
                                                                                                                                                                                                                                                                                                                                                                                                                                                   where($name, '[a-zA-Z0-9]+')
 Route::get('/user/{id}', function ($id) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                   where (\frac{\pi}{4} - \frac{1}{4} - \frac{1}{4}
                                                                                                                                                                                                                                                                                                                                                                                                                                                    [\da-fA-F]{4}-[\da-fA-F]{4}-
                                                                                                                                                                                                                                                                                                                                                                                                                                                    [\da-fA-F]{4}-[\da-fA-
 })->whereUuid('id');
                                                                                                                                                                                                                                                                                                                                                                                                                                                   F]{12}') (định dạng UUID)
```

### **Global Constraints**

- A route parameter to always be constrained by a given regular expression, use the pattern method.
- Define these patterns in the **boot** method of your
   RouteServiceProvider: app\Providers\RouteServiceProvider.php

```
public function boot() {
    Route::pattern('id', '[0-9]+');
    parent::boot();
}
```

 Once the pattern has been defined, it is automatically applied to all routes using that parameter name:

```
Route::get('user/{id}', function ($id) {
    // Only executed if {id} is numeric...
});
```

#### **Named Routes**

- The convenient generation of URLs or redirects for specific routes.
- name method:

You may also specify route names for controller actions:

```
Route::get('user/profile',
'UserController@showProfile')->name('profile');
```

## **Generating URLs To Named Routes**

 Use the route's name when generating URLs or redirects via the global route function:

```
// Generating URLs...
$url = route('profile');

// Generating Redirects...
return redirect()->route('profile');
```

- If the named route defines parameters, you may pass the parameters as the second argument to the **route** function.

```
Route::get('user/{id}/profile', function ($id) {
//
})->name('profile');
$url = route('profile', ['id' => 1]);
```

## **Generating URLs To Named Routes**

 Parameters in the array: those key / value pairs will automatically be added to the generated URL's query string

```
Route::get('/user/{id}/profile', function ($id) {
    //
})->name('profile');

$url = route('profile', ['id' => 1, 'photos' => 'yes']);
```

.../user/1/profile?photos=yes

## **Route Groups**

- Share route attributes:
  - Middleware,
  - Namespaces,
  - Sub-Domain Routing,
  - Route Prefixes
- Shared attributes are specified in an array format as the first parameter to the Route::group() method.

### **Route Prefixes**

- The prefix group attribute may be used to prefix each route in the group with a given URI.
  - For example, you may want to prefix all route URIs within the group with <u>product</u>.

Laravel 5.x:

```
Route::group(['prefix' => 'product'], function () {
    Route::get('add', function () {
        echo 'Add content';
    });
    Route::get('edit', function () {
        echo 'Edit content';
    });
    Route::get('del', function () {
        echo 'Delete content';
    });
}
http://localhost/laravel/public/product/add
```

### **Route Prefixes**

- Laravel 7.x, 8.x

```
Route::prefix('admin')->group(function () {
    Route::get('users', function () {
        // Matches The "/admin/users" URL
    });
});
```

### **Route Prefixes**

```
Route::prefix('admin')->group(function () {
  Route::prefix('users')->group(function() {
    Route::get('/', function () {
      return view('admin.users.index');
    });
    Route::get('add', function () {
      echo "admin/users/add";
    });
    Route::get('edit', function () {
      echo "admin/users/edit";
    });
    Route::get('delete', function () {
      echo "admin/users/delete";
    });
  });
```

```
/*
 * admin/users
 * admin/users/add
 * admin/users/edit
 * admin/users/delete
 * admin/category
 * admin/news
 */
```

```
Route::get('category', function () {
    echo "admin/category";
});
Route::get('news', function () {
    echo "admin/news";
});
});
```

### **Route Name Prefixes**

- Prefix each route name in the group with a given string
- The trailing character in the prefix

```
Route::name('admin')->group(function () {
    Route::get('/users', function () {
        // Route assigned name "admin.users"...
    })->name('users');
});
```

 To assign middleware to all routes within a group, you may use the middleware key in the group attribute array.

```
Route::group ( ['middleware' => 'auth' ], function () {
    Route::get ( '/', function () {
        // Uses Auth Middleware
    });

Route::get ( 'user/profile', function () {
        // Uses Auth Middleware
    });
});
```

Laravel 7.x

```
Route::get('/', function () {
})->middleware('web');
Route::group(['middleware' => ['web']], function () {
});
Route::middleware(['web', 'subscribed'])->group(function ()
```

– Create a new middleware:

php artisan make:middleware EnsureTokenIsValid

- This command will place a new EnsureTokenIsValid class within your app/Http/Middleware directory.
- In this middleware:
  - We will only allow access to the route if the supplied **token** input **matches** a specified value.
  - Otherwise, we will redirect the users **back** to the home URI

```
namespace App\Http\Middleware;
use Closure;
class EnsureTokenIsValid
 * Handle an incoming request.
 * @param \Illuminate\Http\Request $request
 * @param \Closure $next
 * @return mixed
  public function handle($request, Closure $next)
    if ($request->input('token') !== 'my-secret-token') {
      return redirect('home');
    return $next($request);
```

If the given token does not match our secret token, the middleware will return an HTTP redirect to the client;

Otherwise, the request will be passed further into the application, call the \$next callback with the \$request.

## Middleware & Responses

```
namespace App\Http\Middleware;
use Closure;
class BeforeMiddleware
  public function handle($request, Closure $next)
    // Perform action
    return $next($request);
```

A middleware can perform tasks before or after passing the request deeper into the application.

For example, the following middleware would perform some task before the request is handled

## Middleware & Responses

```
namespace App\Http\Middleware;
use Closure;
class AfterMiddleware
  public function handle($request, Closure $next)
   $response = $next($request);
    // Perform action
    return $response;
```

This middleware would perform its task **after** the request is handled by the application

## **Namespaces**

Use-case for route groups is assigning the same PHP namespace to a group of controllers using the namespace parameter in the group array:

 Default: the RouteServiceProvider includes your route files within a namespace group, allowing you to register controller routes without specifying the full App\Http\Controllers namespace prefix.

## **Namespaces**

Laravel 7.x

```
Route::namespace('Admin')->group(function() {
    // Controllers Within The "App\Http\Controllers\Admin" Namespace
});
```

# **Sub-Domain Routing**

- Route groups may also be used to handle sub-domain routing.
- The sub-domain may be specified using the domain key on the group attribute array:

# **Sub-Domain Routing**

- Laravel 7.x, 8.x

```
Route::domain('{account}.myapp.com')->group(function () {
    Route::get('user/{id}', function ($account, $id) {
        //
    });
});
```

# **Implicit Binding**

 Laravel automatically resolves Eloquent models defined in routes or controller actions whose variable names match a route segment name. For example:

```
Route::get('api/users/{user}', function (App\User $user) {
    return $user->email;
});
```

- In this example:
  - Since the Eloquent \$user variable defined on the route matches the {user} segment in the route's URI,
  - Laravel will automatically inject the model instance that has an ID matching the corresponding value from the request URI.

# **Customizing The Key Name**

- Model binding to use a database column other than id when retrieving a given model class:
  - Override the **getRouteKeyName** method on the Eloquent model:

```
// Get the route key for the model.
// @return string

public function getRouteKeyName() {
    return 'slug';
}
```

# **Explicit Binding**

- Use the router's model method.
  - In the **boot** method of the **RouteServiceProvider** class:

```
public function boot(){
    parent::boot();
    Route::model('user', App\User::class);
}
```

Next, define a route that contains a {user} parameter:

```
Route::get ( 'profile/{user}', function (App\User $user) {
      //
});
```

- Since we have bound all {user} parameters to the App\User model,
  - A User instance will be injected into the route.
  - For example, a request to profile/1 will inject the User instance from the database which has an ID of 1.

## **Customizing The Resolution Logic**

- Use your own resolution logic
  - Use the Route::bind method.

```
public function boot(){
    parent::boot();
    Route::bind('user', function ($value) {
        return App\User::where('name', $value)->first();
    });
}
```

## Form Method Spoofing

- HTML forms do not support PUT, PATCH or DELETE actions.
  - So, when defining PUT, PATCH or DELETE routes that are called from an HTML form, you will need to add a hidden method field to the form.
  - The value sent with the \_method field will be used as the HTTP request method.

```
<form action="/foo/bar" method="POST">
        <input type="hidden" name="_method" value="PUT">
        <input type="hidden" name="_token" value="{{ csrf_token() }}">
        </form>
```

Use the method\_field helper to generate the \_method input:

```
{{ method_field('PUT') }}
```

## **Accessing The Current Route**

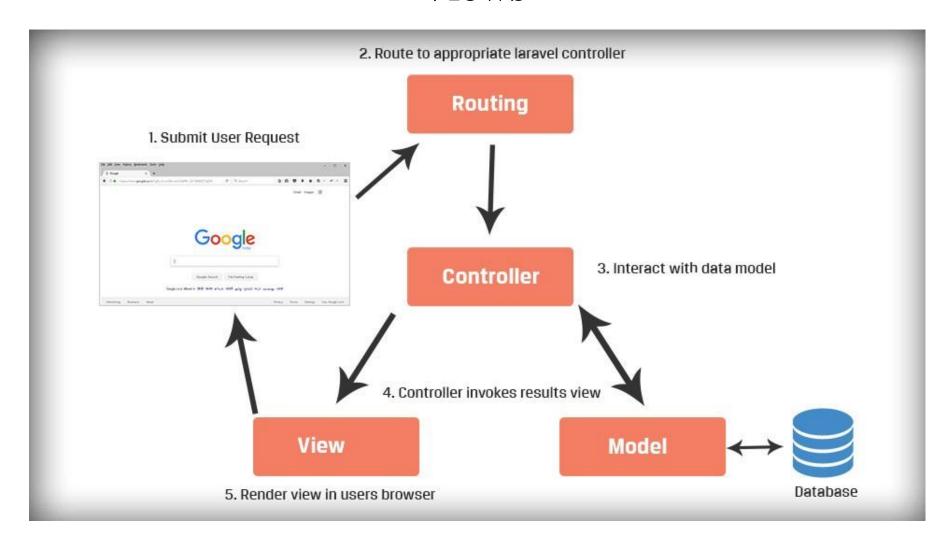
To access information about the route handling the incoming request.

```
$route = Route::current ();
$name = Route::currentRouteName ();
$action = Route::currentRouteAction ();
```

#### **Views**

- 1. Creating Views
- 2. Passing Data To Views
- 3. Sharing Data With All Views
- 4. View Composers

#### **Views**



#### **Views**

- Views contain the HTML served by your application and separate your controller / application logic from your presentation logic.
- Views are stored in the resources/views directory.

This view is stored at resources/views/greeting.blade.php

```
Route::get('/', function () {
    return view('greeting', ['name' => 'James']);
});

http://localhost/MyProject/public/
```

Hello, James

```
Route::get('/', function () {
    return view('greeting', ['name' => 'James']);
});
```

- The first argument: the <u>name of the view</u>.
- The second argument is an array of data that should be made available to the view.
- Views may also be nested within sub-directories of the resources/views directory.
  - For example, if your view is stored at resources/views/admin/profile.blade.php, you may reference it like so:

```
return view('admin.profile', $data);
```

## **Determining If A View Exists**

 If you need to determine if a view exists, you may use the View facade. The exists method will return true if the view exists:

```
use Illuminate\Support\Facades\View;

if (View::exists ( 'emails.customer' )) {
      //
}
```

#### **Passing Data To Views**

An array of data to views:

- Data should be an array with key/value pairs.
  - Inside your view, you can then access each value using its corresponding key, such as <?php echo \$key; ?>.
  - You may use the with method to add individual pieces of data to the view:

```
return view('greeting')->with('name', 'Victoria');
```

#### **Sharing Data With All Views**

- Share a piece of data with all views that are rendered by your application.
  - Using the view facade's **share** method within a service provider's **boot** method.
  - Add them to the AppServiceProvider.

```
namespace App\Providers;
use Illuminate\Support\ServiceProvider;
class AppServiceProvider extends ServiceProvider{
   public function boot() {
      View::share('key', 'value');
   }
   public function register() {
      //
   }
}
```

## **Sharing Data With All Views - Example**

- **Step 1** − Add the following line in routes/web.php

```
Route::get('/test', function(){
    return view('test');
});
Route::get('/test2', function(){
    return view('test2');
});
```

Step 2 — Create two view files — test.php and test2.php with the same code. These are the two files which will share data.

resources/views/test.php & resources/views/test2.php

```
<html>
<body>
<h1><?php echo $name; ?></h1>
</body>
</html>
```

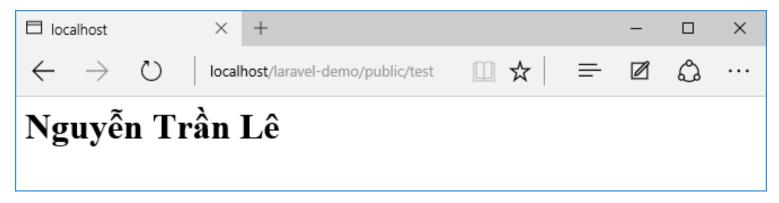
# **Sharing Data With All Views - Example**

- Step 3 Change the code of boot method in the file app/Providers/AppServiceProvider.php as shown below.
- (Here, we have used share method and the data that we have passed will be shared with all the views.)
- app/Providers/AppServiceProvider.php

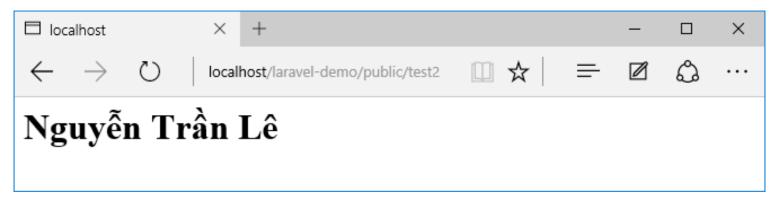
```
namespace App\Providers;
use Illuminate\Support\ServiceProvider;
class AppServiceProvider extends ServiceProvider{
    public function boot(){
        view()->share('name', 'Nguyễn Trần Lê');
    }
    public function register() {
        //
    }
}
```

# **Sharing Data With All Views - Example**

- Step 4 Visit the following URLs.
  - <a href="http://localhost/laravel-demo/public/test">http://localhost/laravel-demo/public/test</a>



http://localhost/laravel-demo/public/test2



## **View Composers**

- Callbacks or class methods that are called when a view is rendered.
- For this example:
  - Let's register the view composers within a service provider.
  - We'll use the View facade to access Illuminate\Contracts\View\Factory.
  - Laravel does not include a default directory for view composers.
    - For example, you could create an App\Http\ViewComposers directory:

# **View Composers**

Create an App\Http\ViewComposers directory:

```
namespace App\Providers;
use Illuminate\Support\Facades\View;
use Illuminate\Support\ServiceProvider;
class ComposerServiceProvider extends ServiceProvider {
    public function boot() {
         // Using class based composers...
         View::composer ('profile', 'App\Http\ViewComposers\ProfileComposer');
         // Using Closure based composers...
         View::composer ('dashboard', function ($view) {
         });
     public function register() {
```

#### **View Composers**

- Now that we have registered the composer,
- The ProfileComposer@compose method will be executed each time the profile view is being rendered:

```
namespace App\Http\ViewComposers;
use Illuminate\View\View;
use App\Repositories\UserRepository;
class ProfileComposer{
    protected $users;
    public function construct(UserRepository $users){
        // Dependencies automatically resolved by service container...
        $this->users = $users;
    public function compose(View $view) {
        $view->with('count', $this->users->count());
```

# **Attaching A Composer To Multiple Views**

- Attach a view composer to multiple views:
  - the first argument to the **composer** method:

```
View::composer(
['profile', 'dashboard'],
  'App\Http\ViewComposers\MyViewComposer'
);
```

 The \* character as a wildcard, attach a composer to all views:

```
View::composer('*', function ($view) {
  //
});
```

#### **View Creators**

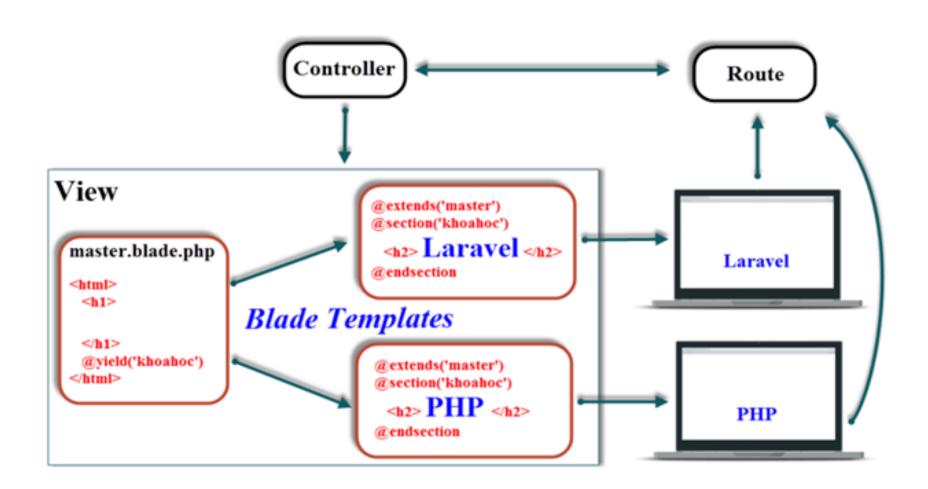
- View creators are very similar to view composers;
- They are executed immediately after the view is instantiated instead of waiting until the view is about to render.

```
View::creator('profile',
  'App\Http\ViewCreators\ProfileCreator');
```

#### **BLADE TEMPLATES**

- 1. Introduction
- 2. Template Inheritance
  - Defining A Layout
  - Extending A Layout
- 3. Displaying Data
  - Blade & JavaScript Frameworks
- 4. Control Structures
  - If Statements
  - Loops
  - The Loop Variable
  - Comments
  - PHP
- 5. Including Sub-Views
  - Rendering Views For Collections
- 6. Stacks

#### **BLADE TEMPLATES**



# Giới thiệu Blade Templates

- Cho phép sử dụng code PHP thuần ở trong view.
- Các Blade view được compiled từ code PHP và được cache cho đến khi chúng được chỉnh sửa => không làm tăng thêm bộ nhớ.
- Sử dụng đuôi .blade.php
  - Luu trong resources/views.

## Layout

2 lợi ích khi sử dụng Blade: template inheritance và sections.

```
<!-- Stored in resources/views/layouts/app.blade.php -->
<html>
  <head>
    <title>App Name - @yield('title')</title>
  </head>
  <body>
    @section('sidebar')
      This is the master sidebar.
    @show
    <div class="container">
      @yield('content')
    </div>
  </body>
                                @yield('title') is used to display the value of the title
                                @section('sidebar') is used to define a section named sidebar
</html>
```

**@show** is used to display the **contents** of a section

@yield('content') is used to display the contents of content

# Kế thừa một layout

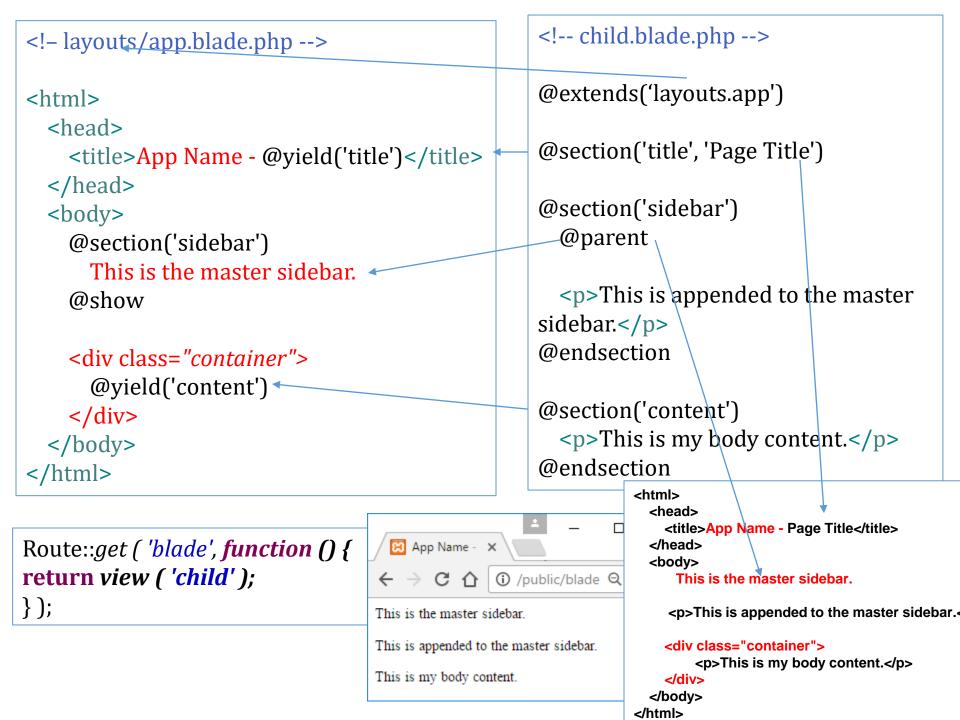
- Khi tạo một trang con, sử dụng Blade @extends directive để chỉ ra layout của trang con này "inherit" từ đâu.
- Views kế thừa một Blade layout có thể inject nội dung vào trong sections using @section directives của layout.

```
<!-- Stored in resources/views/child.blade.php -->
@extends('layouts.app')
@section('title', 'Page Title')
@section('sidebar')
 @parent
 This is appended to the master sidebar.
@endsection
@section('content')
 This is my body content.
@endsection
```

# Kế thừa một layout

 Blade views có thể được trả về từ routes bằng cách sử dụng hàm global view

```
Route::get('blade', function () {
    return view('child');
});
```



# Hiển thị dữ liệu

 Truyền dữ liệu vào Blade views bằng cách đặt biến trong cặp ngoặc nhọn.

```
Route::get ( 'greeting', function () {
    return view ( 'welcome', [ 'name' => 'Samantha' ] );
} );
```

Hiển thị nội dung của biến name variable như sau:

```
Hello, {{ $name }}
```

# Hiển thị dữ liệu nếu tồn tại

Cú pháp kiểm tra biến:

```
{{ isset($name) ? $name : 'Default' }}
```

Hoặc:

```
{{ $name or 'Default' }}
```

# Hiện dữ liệu chưa Unescaped

- Mặc định, cặp {{}} được tự động gửi qua hàm
   htmlentities của PHP để ngăn chặn tấn công XSS.
- Nếu không muốn dữ liệu bị escaped, sử dụng cú pháp:

```
Hello, {!! $name !!}. <?php echo $name; ?>
```

```
Hello, {{ $name }}.
```

<?php echo htmlentities(\$name); ?>

## Blade & JavaScript Frameworks

- Vì nhiều JavaScript frameworks cũng sử dụng cặp "ngoặc nhọn" để cho biết một biểu thức cần được hiển thị lên trình duyệt.
  - Có thể sử dụng biểu tượng @ để nói cho Blade biết được biểu thức này cần được giữ lại.

```
<h1>Laravel</h1> Hello, @{{ name }}.
```

#### The @verbatim Directive

- Nếu muốn hiển thị biến JavaScript trong phần lớn template
  - → Bọc chúng trong khối directive

#### @verbatim

<div class="container"> Hello, {{ name }}. </div>

# Cấu trúc điều kiện

- Cấu trúc if:
  - @if, @elseif, @else, và @endif.

```
@if ($records === 1)
    I have one record!
@elseif ($records > 1)
    I have multiple records!
@else
    I don't have any records!
@endif
```

```
<?php if ($records === 1) { ?>
...
<?php } ?>
```

## Vòng lặp

```
@for (\$i = 0; \$i < 10; \$i++)
   The current value is {{ $i }}
@endfor
@foreach ($users as $user)
   This is user {{ $user->id }}
@endforeach
@while (true)
   I'm looping forever.
@endwhile
```

#### **Continue**

```
@foreach ($users as $user)
   @if ($user->type == 1)
      @continue
   @endif
   {{ $user->name }}
   @if ($user->number == 5)
      @break
   @endif
@endforeach
```

#### **Continue**

```
@foreach ($users as $user)
    @continue($user->type == 1)

{li>{{ $user->name }}
    @break($user->number == 5)
@endforeach
```

# Biến vòng lặp

- Trong vòng lặp:
  - Một biến \$loop sẽ tồn tại bên trong vòng lặp.
  - Cho phép truy cập một số thông tin hữu ích của vòng lặp như index của vòng lặp hiện tại, vòng lặp đầu, vòng lặp cuối

```
@foreach ($users as $user)
    @if ($loop->first)
    This is the first iteration.
    @endif
    @if ($loop->last)
    This is the last iteration.
    @endif
    This is user {{ $user->id }}
@endforeach
```

# Biến vòng lặp

 Nếu vòng lặp lồng nhau, truy cập biến \$loop của vòng lặp tra qua thuộc tính parent:

```
@foreach ($users as $user)
  @foreach ($user->posts as $post)
    @if ($loop->parent->first)
    This is first iteration of the parent loop.
    @endif
    @endforeach
@endforeach
```

# Biến \$loop

Thuộc tính	Miêu tả
\$loop->index	Chỉ số index hiện tại của vòng lặp (starts at 0).
\$loop->iteration	Các vòng lặp hiện tại (starts at 1).
\$loop->remaining	Số vòng lặp còn lại.
\$loop->count	Tổng số vòng lặp.
\$loop->first	Vòng lặp đầu tiên.
\$loop->last	Vòng lặp cuối cùng.
\$loop->depth	Độ sâu của vòng lặp hiện tại.
\$loop->parent	Biến parent loop của vòng lặp trong 1 vòng lặp lồng.

#### **Comments**

Blade cho phép comment trong view.

{{-- This comment will not be present in the rendered HTML --}}

#### **Including Sub-Views**

- @include: chèn một Blade view từ một view khác.
- Tất cả các biến tồn tại trong view cha đều có thể sử dụng ở view chèn thêm.

```
<div>
@include('shared.errors')

<form>
    <!-- Form Contents -->
    </form>
    </div>
```

Truyền một mảng dữ liệu bổ sung cho view

```
@include('view.name', ['some' => 'data'])
```

#### **Rendering Views cho Collections**

 Có thể kết hợp vòng lặp và view chèn thêm trong một dòng với @each directive

@each('view.name', \$jobs, 'job')

- Tham số thứ nhất là tên của view partial để render các element trong mảng hay collection.
- Tham số thứ hai là một mảng hoặc collection mà bạn muốn lặp
- Tham số thứ ba là tên của biến được gán vào trong vòng lặp bên view.

#### **Stacks**

- Để xác định thư viện JavaScript libraries cần cho view con:
  - Blade cho phép đẩy tên stack để cho việc render ở một vị trí nào trong view hoặc layout khác.

```
@push('scripts')
     <script src="/example.js"></script>
     @endpush
```

Có thể đẩy một hoặc nhiều vào stack.

```
<head>
<!-- Head Contents -->
    @stack('scripts')
</head>
```

## Mở rộng Blade

 Tùy biến directives bằng phương thức directive. Khi trình viên dịch của Blade gặp directive, nó sẽ gọi tới callback được cung cấp với tham số tương ứng.

```
namespace App\Providers;
use Illuminate\Support\Facades\Blade;
use Illuminate\Support\ServiceProvider;
class AppServiceProvider extends ServiceProvider {
    public function boot() {
        Blade::directive('datetime', function($expression) {
          return "<?php echo $expression->format('m/d/Y H:i'); ?>";
        });
    public function register() {
```

#### Forms & HTML

- Laravel provides various in built tags to handle HTML forms easily and securely.
- All the major elements of HTML are generated using Laravel.
- To support this, we need to add HTML package to Laravel using composer.

#### Forms & HTML - Instalation

Begin by installing this package through Composer. Run the following from the terminal:

```
composer require "laravelcollective/html": "^5.3.0"
```

Next, add your new provider to the providers array of config/app.php:

```
'providers' => [
  // ...
  Collective\Html\HtmlServiceProvider::class,
  // ...
],
```

Finally, add two class aliases to the aliases array of config/app.php:

```
'aliases' => [
  // ...
  'Form' => Collective\Html\FormFacade::class,
  'Html' => Collective\Html\HtmlFacade::class,
  // ...
].
```

## Forms & HTML - Opening A Form

```
{!! Form::open(['url' => 'foo/bar']) !!}
    //
{!! Form::close() !!}
```

 By default, a POST method will be assumed; however, you are free to specify another method:

```
echo Form::open(['url' => 'foo/bar', 'method' => 'put'])
```

Note: Since HTML forms only support POST and GET, PUT and DELETE methods will be spoofed by automatically adding a \_method hidden field to your form.

## Forms & HTML - Opening A Form

 You may also open forms that point to named routes or controller actions:

```
echo Form::open(['route' => 'route.name'])
echo Form::open(['action' => 'Controller@method'])
```

You may pass in route parameters as well:

```
echo Form::open(['route' => ['route.name', $user->id]])
echo Form::open(['action' => ['Controller@method',
$user->id]])
```

 If your form is going to accept file uploads, add a files option to your array:

```
echo Form::open(['url' => 'foo/bar', 'files' => true])
```

#### Forms & HTML - Label

Generating A Label Element
 echo Form::label('email', 'E-Mail Address');

Specifying Extra HTML Attributes echo Form::label('email', 'E-Mail Address', ['class' => 'awesome']);

 Note: After creating a label, any form element you create with a name matching the label name will automatically receive an ID matching the label name as well.

## Forms & HTML - Text Input

Generating A Text Input echo Form::text('username');

 Specifying A Default Value echo Form::text('email', 'example@gmail.com');

 Note: The hidden and textarea methods have the same signature as the text method.

## Forms & HTML - Password Input

– Generating A Password Input echo Form::password('password', ['class' => 'awesome']);

Generating Other Inputs

```
echo Form::email($name, $value = null, $attributes = []);
echo Form::file($name, $attributes = []);
```

## Forms & HTML - Checkbox Or Radio Input

Generating A Checkbox Or Radio Input

```
echo Form::checkbox('name', 'value');
echo Form::radio('name', 'value');
```

Generating A Checkbox Or Radio Input That Is Checked

```
echo Form::checkbox('name', 'value', true);
echo Form::radio('name', 'value', true);
```

#### Forms & HTML – Number, Date, File

Generating A Number Input echo Form::number('name', 'value');

Generating A Date Input
 echo Form::date('name', \Carbon\Carbon::now());

Generating A File Input echo Form::file('image');

#### Forms & HTML – Drop-Down Lists

- Generating A Number Input echo Form::number('name', 'value');
- Generating A Drop-Down List echo Form::select('size', ['L' => 'Large', 'S' => 'Small']);
- Generating A Drop-Down List With Selected Default echo Form::select('size', ['L' => 'Large', 'S' => 'Small'], 'S');
- Generating a Drop-Down List With an Empty Placeholder
  - This will create an <option> element with no value as the very first option of your drop-down.

```
echo Form::select('size', ['L' => 'Large', 'S' => 'Small'], null, ['placeholder' => 'Pick a size...']);
```

#### Forms & HTML – Drop-Down Lists

Generating a List With Multiple Selectable Options echo Form::select('size', ['L' => 'Large', 'S' => 'Small'], null, ['multiple' => true]);

Generating A Grouped List

```
echo Form::select('animal',[
    'Cats' => ['leopard' => 'Leopard'],
    'Dogs' => ['spaniel' => 'Spaniel'],
]);
```

- Generating A Drop-Down List With A Range echo Form::selectRange('number', 10, 20);
- Generating A List With Month Names
- echo Form::selectMonth('month');

#### Forms & HTML – Buttons

Generating A Submit Button

echo Form::submit('Click Me!');

- **Note**: Need to create a button element? Try the button method. It has the same signature as submit.

## Forms & HTML – Generating URLs

Generate a HTML link to the given URL.
echo link\_to('foo/bar', \$title = null, \$attributes = [], \$secure = null);

— Generate a HTML link to the given asset. echo link\_to\_asset('foo/bar.zip', \$title = null, \$attributes = [], \$secure = null);

Generate a HTML link to the given named route.
echo link\_to\_route('route.name', \$title = null, \$parameters = [], \$attributes = []);

Generate a HTML link to the given controller action.
echo link\_to\_action('HomeController@getIndex', \$title = null, \$parameters = [], \$attributes = []);

#### Forms & HTML – Example

resources/views/form.php

```
<html>
 <body>
   <?php
    echo Form::open(array('url' => 'foo/bar'));
      echo Form::text('username','nguyentranle') . '<br/>';
      echo Form::text('email', 'nguyentranle@gmail.com') . '<br/>';
      echo Form::password('password') . '<br/>';
      echo Form::checkbox('name', 'value') . 'Checkbox<br/>';
      echo Form::radio('name', 'value') . 'Radio button<br/>';
      echo Form::file('image') . '<br/>';
      echo Form::select('size', array('L' => 'Large', 'S' => 'Small')) . '<br/>';
      echo Form::submit('Click Me!');
   echo Form::close();
 </body>
</html>
```

#### Forms & HTML – Example

Routes/web.php

```
Route::get('/form',function(){
    return view('form');
});
```

Test: <a href="http://localhost/laravel-demo/public/form">http://localhost/laravel-demo/public/form</a>

