what’s new in Laravel 5.5?

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Agenda

5.5 in a nutshell

Backend

Frontend

Artisan Console

Laravel 5.5

Released on 2017-08-30

Current version: 5.5.18 (released today @ 15:30)

PHP >= 7.0

LTS

- Bugfixes: 2 years
- Security fixes: 3 years

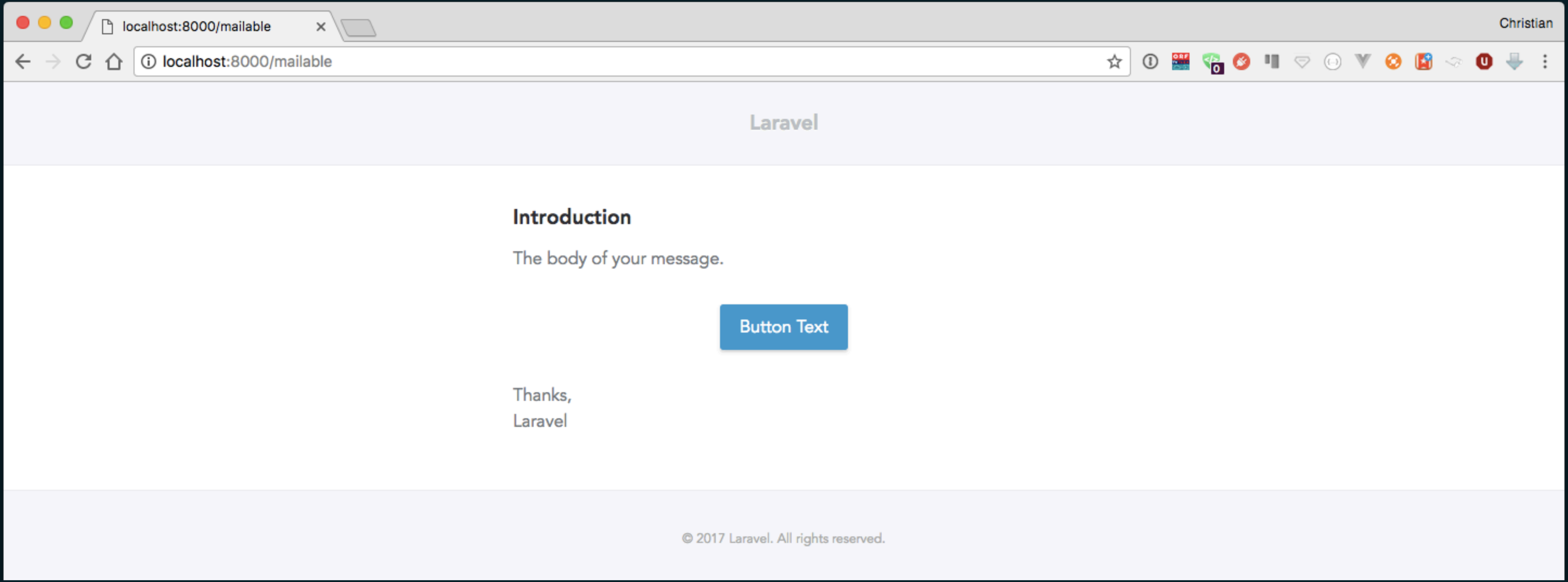
Backend

Render Mailables to the Browser

```
$ php artisan make:mail WelcomeMail --markdown=emails.welcome
Mail created successfully.
```

```
/* web.php */

Route::get('/mailable', function () {
    return new App\Mail\WelcomeMail();
});
```



Laravel

Introduction

The body of your message.

Thanks,
Laravel

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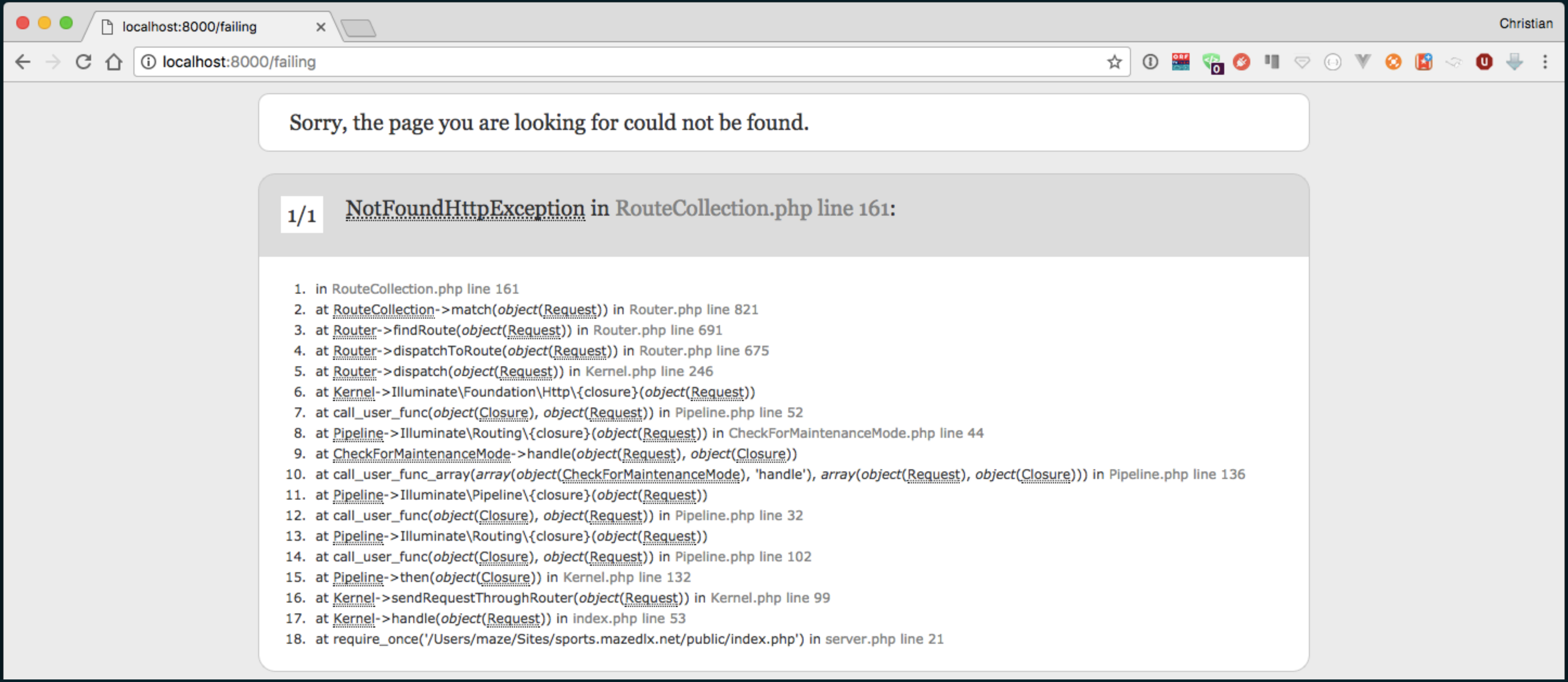
Whoops

5.4

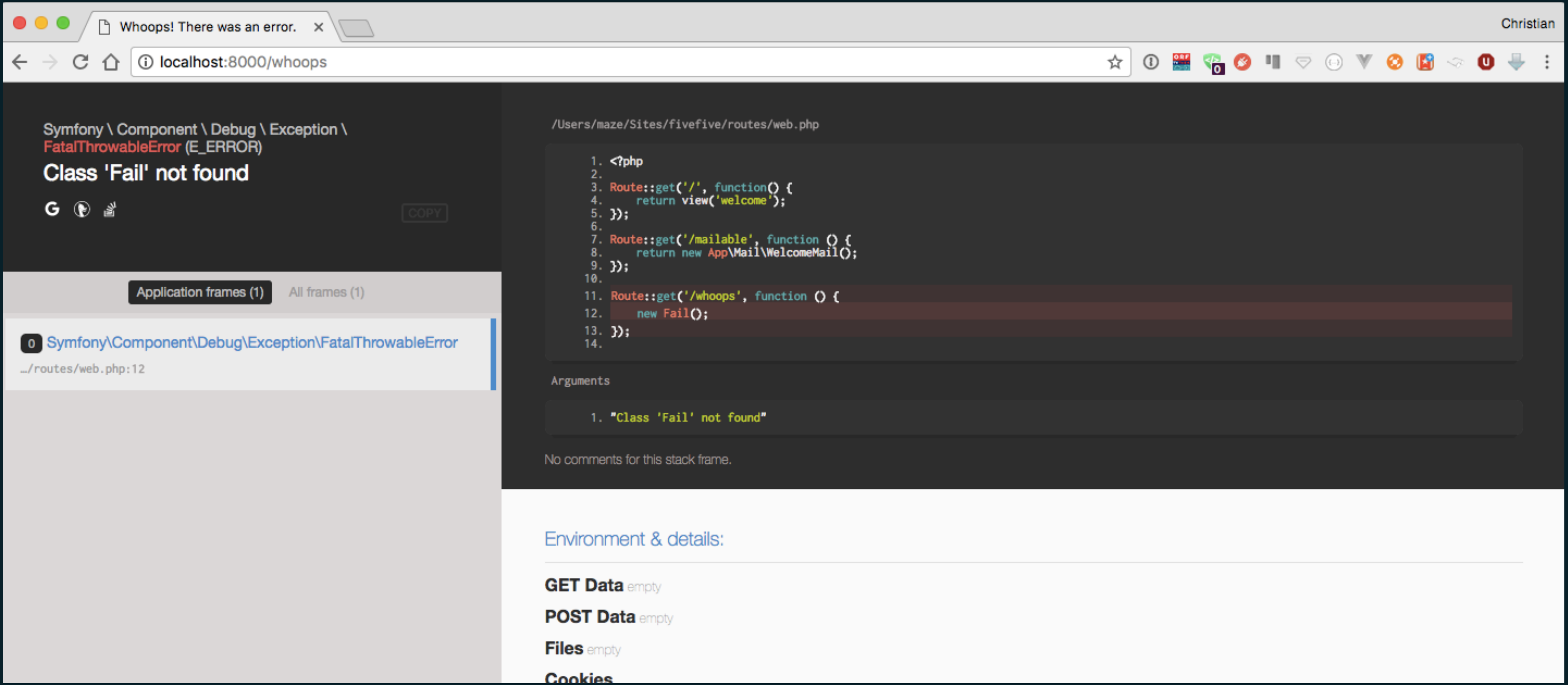


Sorry, the page you are looking for could not be found.

1/1 NotFoundHttpException in RouteCollection.php line 161:

```
 1. in RouteCollection.php line 161
 2. at RouteCollection->match(object(Request)) in Router.php line 821
 3. at Router->findRoute(object(Request)) in Router.php line 691
 4. at Router->dispatchToRoute(object(Request)) in Router.php line 675
 5. at Router->dispatch(object(Request)) in Kernel.php line 246
 6. at Kernel->Illuminate\Foundation\Http\{closure}(object(Request))
 7. at call_user_func(object(Closure), object(Request)) in Pipeline.php line 52
 8. at Pipeline->Illuminate\Routing\{closure}(object(Request)) in CheckForMaintenanceMode.php line 44
 9. at CheckForMaintenanceMode->handle(object(Request), object(Closure))
10. at call_user_func_array(array(object(CheckForMaintenanceMode), 'handle'), array(object(Request), object(Closure))) in Pipeline.php line 136
11. at Pipeline->Illuminate\Pipeline\{closure}(object(Request))
12. at call_user_func(object(Closure), object(Request)) in Pipeline.php line 32
13. at Pipeline->Illuminate\Routing\{closure}(object(Request))
14. at call_user_func(object(Closure), object(Request)) in Pipeline.php line 102
15. at Pipeline->then(object(Closure)) in Kernel.php line 132
16. at Kernel->sendRequestThroughRouter(object(Request)) in Kernel.php line 99
17. at Kernel->handle(object(Request)) in index.php line 53
18. at require_once('/Users/maze/Sites/sports.mazedlx.net/public/index.php') in server.php line 21
```

5.5



Symfony \ Component \ Debug \ Exception \
FatalThrowableError (E_ERROR)

Class 'Fail' not found

0 Symfony\Component\Debug\Exception\FatalThrowableError
…/routes/web.php:12

/Users/maze/Sites/fivefive/routes/web.php

```php
<?php

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

Route::get('/mailable', function () {
    return new App\Mail\WelcomeMail();
});

Route::get('/whoops', function () {
    new Fail();
});

```

Arguments

1. "Class 'Fail' not found"

No comments for this stack frame.

Environment & details:

GET Data empty

POST Data empty

Files empty

Cookies

Package Autodiscovery

5.4

```
$ composer require some/repo

/* register the provider in config/app.php*/

Some\Repo\ServiceProvider::class,


/* register the facade (optional) */

'SomeFacade' => Some\Repo\Facade::class,
```

5.5

```
/* some/repo’s composer.json */

"extra": {
    "laravel": {
        "providers": [
            "Some\\Repo\\ServiceProvider"
        ],
        "aliases": {
            "SomeFacade": "Some\\Repo\\Facade"
        }
    }
}
```

dd() and dump() for Collections

```php
collect([1, 2, 3])->map(function ($item) {
    return $item * 2;
})->reject(function ($item) {
    return $item < 3;
});
```

```
collect([1, 2, 3])->map(function ($item) {
    return $item * 2;
})->dump()->reject(function ($item) {
    return $item < 3;
});
```

```
Illuminate\Support\Collection {#1030
  #items: array:3 [
    0 => 2
    1 => 4
    2 => 6
  ]
}
```

```
collect([1, 2, 3])->map(function ($item) {
    return $item * 2;
})->dd()->reject(function ($item) {
    return $item < 3;
});
```

```
array:3 [
  0 => 2
  1 => 4
  2 => 6
]
```

`throw_if` and `throw_unless` Helper Functions

```php
/* throw_if*/
$foo = true;
throw_if($foo, new BarException('Foo is true'));
// or
throw_if($foo, BarException::class, 'Foo is true');
```

```php
/* throw_unless */
$bar = false;
throw_unless($bar, new BarException('Bar is false'));
// or
throw_unless($bar, BarException::class, 'Bar is false');
```

Validation Returns Request Data

5.4

```
public function store()
{
    $this->validate(request(), [
        'title' => 'required',
        'body' => 'required',
        'category_id' => 'numeric|exists:categories',
    ]);

    return Article::create(request()->only(
        'title', 'body', ‘category_id'
    );
}
```

5.5

```
public function store()
{
    $data = $this->validate(request(), [
        'title' => 'required',
        'body' => 'required',
        'category_id' => 'numeric|exists:categories',
    ]);

    return Article::create($data);
}
```

Custom Validator Rules

```
$ php artisan make:rule MyAwesomeRule
Rule created successfully.
```

```php
<?php

namespace App\Rules;


use Illuminate\Contracts\Validation\Rule;

class MyAwesomeRule implements Rule
{
    /**
     * Determine if the validation rule passes.
     *
     * @param  string $attribute
     * @param  mixed $value
     * @return bool
     */
    public function passes($attribute, $value)
    {
        return $value === 'awesome';
    }

    /**
     * Get the validation error message.
     *
     * @return string
     */
    public function message()
    {
        return 'The given value is not awesome.';
    }
}
```

```
use App\Rules\MyAwesomeRule;

$request->validate([
    'some_field_to_validate' => [
        'required',
        new MyAwesomeRule()
    ]
]);
```

Custom Exception Reporting

5.4

```php
public function report(Exception $exception)
{
    if ($exception instanceof MyException) {
        // OMG IT FAILED
        // DO STUFF
    }

    if ($exception instanceof MyOtherException) {
        // OMG SOMETHING ELSE FAILED
        // DO SOME OTHER STUFF
    }

    return parent::report($exception);
}
```

5.5

```
if (method_exists($e, 'report')) {
    return $e->report();
}

/* MyAwesomeException */

public function report()
{
    // OMG IT FAILED
    // DO STUFF
}
```

Pivot Casting

```
class Driver extends Model
{
    public function races()
    {
        $this->belongsToMany('App\Race');
    }
}

class Race extends Model
{
    public function drivers()
    {
        $this->belongsToMany('App\Driver');
    }
}

class DriverRace extends Model
{
    $casts = [
        'splits' => 'array'
    ];
}
```

```
dd($driver->pivot->splits);

array:3 [
  "Lap 1" => "240"
  "Lap 2" => "260"
  "Lap 3" => "230"
]
```

5.4

```
$splits = $splits->toJson();

$driver->races()->attach($raceId, ['splits' => $splits]);
```

5.5

```
$driver->races()->attach($raceId, ['splits' => $splits]);
```

Higher Order `tap()`

tap()

```php
function tap($value, $callback)
{
    $callback($value);

    return $value;
}
```

5.4

```php
class PostsController extends Controller
{
    public function update(Post $post)
    {
        $attributes = request()->validate([
            'title' => 'required',
            'body' => 'required',
        ]);

        return tap($post, function ($post) use ($attributes) {
            $post->update($attributes);
        });
    }
}
```

5.5

```
class PostsController extends Controller
{
    public function update(Post $post)
    {
        $attributes = request()->validate([
            'title' => 'required',
            'body' => 'required',
        ]);

        return tap($post)->update($attributes);
    }
}
```

`redirect()`, `view()` and `fallback()` Route Helpers

```
/* 5.4 */
Route::get('/profile', function () {
    return redirect('/home');
});

/* 5.5 */
Route::redirect('/profile', '/home');
```

```
/* 5.4 */
Route::get('/', function () {
    return view('welcome');
});

/* 5.5 */
Route::view(‘/', 'welcome');
```

```
Route::fallback('HomeController@notFound');
```

Toggle Exception Handling

5.4

```
/** @test */
function some_failing_test()
{
    $this->get('/some-route')
        ->asssertStatus(200);

    // e.g. expected 200 but received 500
    // thanks Laravel, that’s correct but it won't help me
}
```

5.5

```
/** @test */
function some_failing_test()
{
    $this->withoutExceptionHandling();

    $this->get('/some-route')
        ->asssertStatus(200);

    // will show the real exception and where it was thrown
    // e.g. a missing method within a controller
}
```

API Resources

API Resources

```
Route::get('/', function () {
    return App\User::find(1);
});
```

API Resources

```json
{
    "id": 1,
    "name": "Mr. Chaim Vandervort",
    "email": "hubert.toy@example.net",
    "created_at": "2017-09-02 18:27:43",
    "updated_at": "2017-09-02 18:27:43"
}
```

API Resources

```
$ php artisan make:resource UserResource
Resource create successfully.
```

API Resources

```php
<?php

namespace App\Http\Resources;

use Illuminate\Http\Resources\Json\Resource;

class UserResource extends Resource
{
    /**
     * Transform the resource into an array.
     *
     * @param  \Illuminate\Http\Request
     * @return array
     */
    public function toArray($request)
    {
        return parent::toArray($request);
    }
}
```

API Resources

```php
/* UserResource.php */
public function toArray()
{
    return [
        'name' => $this->name,
        'email' => $this->email,
    ];
}
```

API Resources

```
<?php

use App\Http\Resources\UserResource;
use App\User;

Route::get('/', function () {
    return new UserResource(User::find(1));
});
```

API Resources

```
{
    "data": {
        "name": "Mr. Chaim Vandervort",
        "email": "hubert.toy@example.net"
    }
}
```

API Resources

```php
/* UserResource.php */
public function with()
{
    return [
        'foo' => 'bar',
    ];
}
```

API Resources

```
{
    "data": {
        "name": "Mr. Chaim Vandervort",
        "email": "hubert.toy@example.net"
    },
    "foo": "bar"
}
```

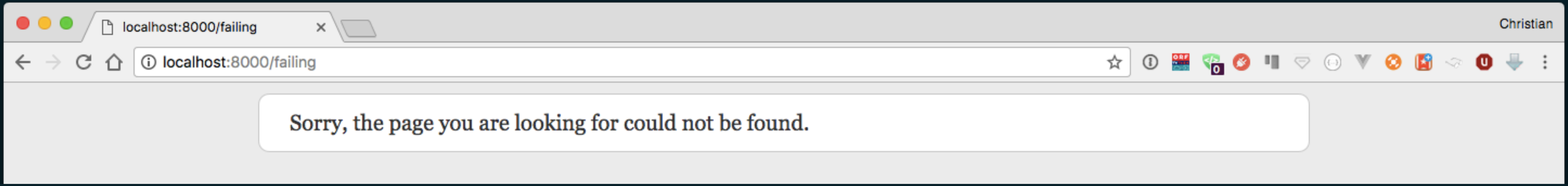
Dynamic Templates

```
return view()->first([
    "pages/{$page->slug}",
    "pages/category-{$page->category->slug}",
    "pages/default-template"
], $data);
```

Frontend

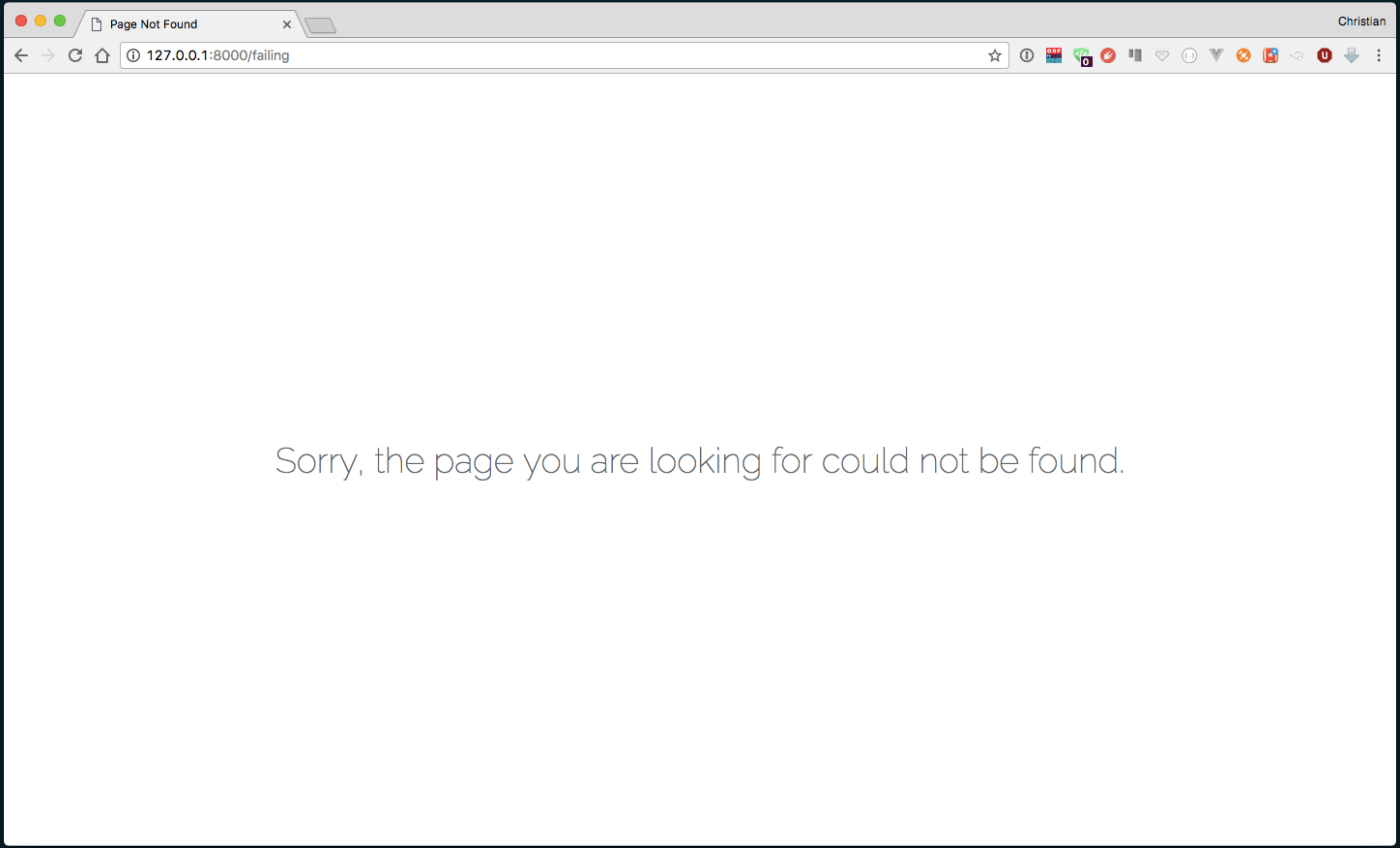
Pretty Default Error Views

5.4



Sorry, the page you are looking for could not be found.

5.5



Sorry, the page you are looking for could not be found.

Frontend Presets

```
$ php artisan preset none
Frontend scaffolding removed successfully.

$ php artisan preset bootstrap
Bootstrap scaffolding installed successfully.
Please run "npm install && npm run dev" to compile your fresh scaffolding.

$ php artisan preset vue
Vue scaffolding installed successfully.
Please run "npm install && npm run dev" to compile your fresh scaffolding.

$ php artisan preset react
React scaffolding installed successfully.
Please run "npm install && npm run dev" to compile your fresh scaffolding.
```

Custom Blade @if Directives

5.4

```
/* someview.blade.php */

<div>
@if(auth()->user()->isSubscribed())
    You're a subscriber!
@else
    You're not a subscriber.
@endif
</div>
```

5.5

```
/* someview.blade.php */

<div>
@subscriber
    You're a subscriber!
@else
    You're not a subscriber.
@endsubscriber
</div>
```

```php
/* AppServiceProvider.php */

public function boot()
{
    \Blade::if('subscriber', function () {
        return auth()->user()->isSubscribed();
    });
}
```

`@json` Directive

5.4

```
<script>
    var app = <?php echo json_encode($array); ?>;
</script>
```

5.5

```
<script>
    var app = @json($array)
</script>
```

Helper function `optional()`

5.4

```
{{ $user->profile ? $user->profile->location : ''; }}
```

5.5

```
{{ optional($user->profile)->location }}
```

Artisan Console

```
php artisan migrate:fresh
```

5.4

```
$ php artisan migrate:refresh

Rolling back: 2014_10_12_100000_create_password_resets_table
Rolled back:  2014_10_12_100000_create_password_resets_table
Rolling back: 2014_10_12_000000_create_users_table
Rolled back:  2014_10_12_000000_create_users_table
Migrating: 2014_10_12_000000_create_users_table
Migrated:  2014_10_12_000000_create_users_table
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated:  2014_10_12_100000_create_password_resets_table
```

5.5

```
$ php artisan migrate:fresh

Dropped all tables successfully.
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table
Migrated:  2014_10_12_000000_create_users_table
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated:  2014_10_12_100000_create_password_resets_table
```

```
php artisan vendor:publish
```

```
$ php artisan vendor:publish

 Which provider or tag's files would you like to publish?:
  [0] Publish files from all providers and tags listed below
  [1] Provider: Illuminate\Notifications\NotificationServiceProvider
  [2] Provider: Illuminate\Pagination\PaginationServiceProvider
  [3] Provider: Illuminate\Mail\MailServiceProvider
  [4] Tag: laravel-notifications
  [5] Tag: laravel-pagination
  [6] Tag: laravel-mail
 >
```

RefreshDatabase Trait

5.4

```php
<?php

use Tests\TestCase;
use Illuminate\Foundation\Testing\DatabaseMigrations;

class MyAwesomeTest extends TestCase
{
    use DatabaseMigrations;

/* OR */

<?php

use Tests\TestCase;
use Illuminate\Foundation\Testing\DatabaseTransactions;

class MyAwesomeTest extends TestCase
{
    use DatabaseTransactions;
```

5.5

```php
<?php

use Tests\TestCase;
use Illuminate\Foundation\Testing\RefreshDatabase;

class MyAwesomeTest extends TestCase
{
    use RefreshDatabase;
```

5.5

Laravel checks if DB_DATABASE=:memory:

True? Use DatabaseMigrations!

False? Use DatabaseTransactions!

```
php artisan make:factory
```

5.4

```
/database/factories/ModelFactory.php
```

5.5

```
$ php artisan make:factory User
Factory created successfully.

<?php

use Faker\Generator as Faker;

$factory->define(App\User::class, function (Faker $faker) {
    return [
        // 'username' => $faker->userName,
        // ‘name’ => $faker->name,
    ];
});
```

Auto-Registering Artisan Commands

5.4

```
$ php artisan make:command ClearDatabase

/* app/Console/Commands/ClearDatabase.php */

protected $signature = 'clear:database';


/* app/Console/Kernel.php */

protected $commands = [
    Commands\ClearDatabase::class,
];


$ php artisan clear:database
```

5.5

```
$ php artisan make:command ClearDatabase

/* app/Console/Commands/ClearDatabase.php */

protected $signature = 'clear:database';

$ php artisan clear:database
```

Done! Thanks! Questions?

Slides are available at https://speakerdeck.com/mazedlx/