How to create a Laravel 5 package

Povilas Korop • Laravel Vilnius Meetup 03 • 2016.01.08

What is a package?

```
"require": {
 "laravel/framework": "5.1.*",
 "laracasts/utilities": "~2.0",
 "illuminate/html": "~5.0",
 "guzzlehttp/guzzle": "~4.0",
 "doctrine/dbal": "~2.3"
```

Why creating a package?

Reason 1. Help future self. I will not repeat myself

DON'T REPEAT YOURSELF

Repetition is the root of all software evil

Why creating a package?

Reason 2. Build reputation.



Why creating a package?

Reason 3. Help each other.



Now, creating a package in 10 (easy) steps

Package idea: show current time in various timezones

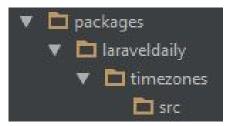
Step 1 - install fresh Laravel*

composer create-project laravel/laravel --prefer-dist. "5.1.*"

* - we're working on Laravel 5.1 version here

Step 2 - create folder / packages

```
    ▶ □ app
    ▶ □ bootstrap
    ▶ □ config
    ▶ □ database
    ▼ □ packages
    ▼ □ laraveldaily
    □ timezones
```



Folder structure: vendor / package name / src

Step 3 - package composer.json

composer init

Step 4 - main composer.json

```
"autoload": {
    "classmap": [
        "database"
    ],
    "psr-4": {
        "App\\": "app/",
        "Laraveldaily\\Timezones\\": "packages/laraveldaily/timezones/src"
    }
},
```

composer dump-autoload

Step 5 - Service Provider

php artisan make:provider TimezonesServiceProvider

```
▶ □ app
▶ □ config
                                                   namespace Laraveldaily\Timezones;
  database
                                                   use Illuminate\Support\ServiceProvider;
▼ □ packages
  ▼ 🗖 laraveldaily
                                                   class TimezonesServiceProvider extends ServiceProvider
     ▼ 🗖 timezones
        ▼ 🗖 src
              TimezonesServiceProvider.php
          composer.json
  resources
                                                       public function boot()
 storage
  tests
▶ □ vendor
  l .env
  env.example
  gitattributes
  gitignore.
   artisan
  composer.json
                                                       public function register()
  composer.lock
   gulpfile.js
   竝 package.json
```

Step 5.1 - registering provider

config/app.php:

```
'providers' => [

Illuminate\Foundation\Providers\ArtisanServiceProvider::class,

// ... other providers

Illuminate\View\ViewServiceProvider::class,
```

Laraveldaily\Timezones\TimezonesServiceProvider::class,

Step 6 - Controller

packages\laraveldaily\timezones\src\TimezonesController.php:

```
namespace Laraveldaily\Timezones;
use App\Http\Controllers\Controller;
use Carbon\Carbon;
class TimezonesController extends Controller
 public function index($timezone)
   echo Carbon::now($timezone)->toDateTimeString();
```

Step 7 - routes.php

packages\laraveldaily\timezones\src\routes.php:

Back to Service Provider:

```
class TimezonesServiceProvider extends ServiceProvider
{
    public function register()
    {
        include __DIR__.'/routes.php';
        $this->app->make('Laraveldaily\Timezones\TimezonesController');
    }
}
```

Step 8 - ta-daaa!



2015-10-19 02:30:38

Step 9 - Views

packages\laraveldaily\timezones\src\views\time.blade.php:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Laravel Timezones</title>
  </head>
  <body>
    <div class="container">
       <div class="content">
         <div class="title">{{ $current_time }}</div>
       </div>
    </div>
  </body>
</html>
```

Step 9.1 - Using Views

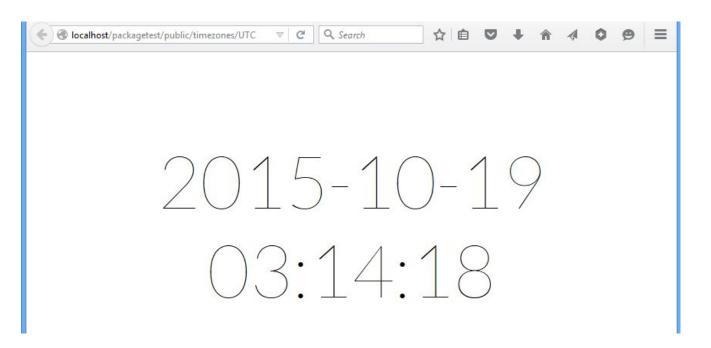
Service Provider:

```
public function boot()
{
    $this->loadViewsFrom(__DIR__.'/views', 'timezones');
}
```

Controller:

```
public function index($timezone = NULL)
{
    $current_time = Carbon::now();
    return view('timezones::time', compact('current_time'));
}
```

Step 9.2 - ta-daaaa x 2



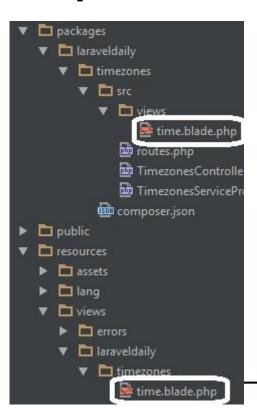
Step 10 - Publishing Views

Service Provider:

```
public function boot()
{
    $this->publishes([
        __DIR__.'/views' => base_path('resources/views/laraveldaily/timezones'),
    ]);
}
```

php artisan vendor:publish

Step 10.2 - Published Views



Bonus Step: publish package

- You form your package as a repository and upload it to GitHub;
- You register on Packagist.org;
- You make sure that your composer.json contains all necessary information;
- You submit a link to your GitHub repository to Packagist;
- BOOM! magic happens!
- For all detailed information about composer.json fields, package versioning and other topics – see Packagist documentation.

So, let's create awesome things!

Any questions?





image

by intervention

Image handling and manipulation library with support for Laravel integration

± 1501918

laravel-debugbar

by barryydh

PHP Debugbar integration for Laravel

1 177 068

laravel-ide-helper

by barryydh

Laravel IDE Helper, generates correct PHPDocs for all Facade classes, to improve auto-completion.

1 1199 586

generators

by way

Rapidly generate resources, migrations, models, and much more.

\$ 1069 130