
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.



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

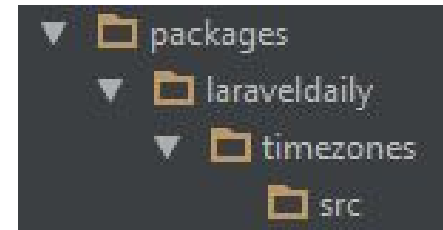
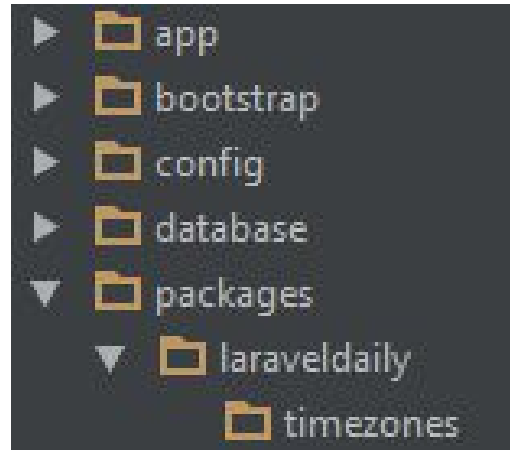
Package idea: show current time in
various timezones

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



Folder structure: vendor / package_name / src

Step 3 - package composer.json

composer init

```
{
  "name": "laraveldaily/timezones",
  "description": "Demo-package to show time",
  "authors": [
    {
      "name": "Laravel Daily",
      "email": "info@laraveldaily.com"
    }
  ],
  "minimum-stability": "dev",
  "require": {}
}
```

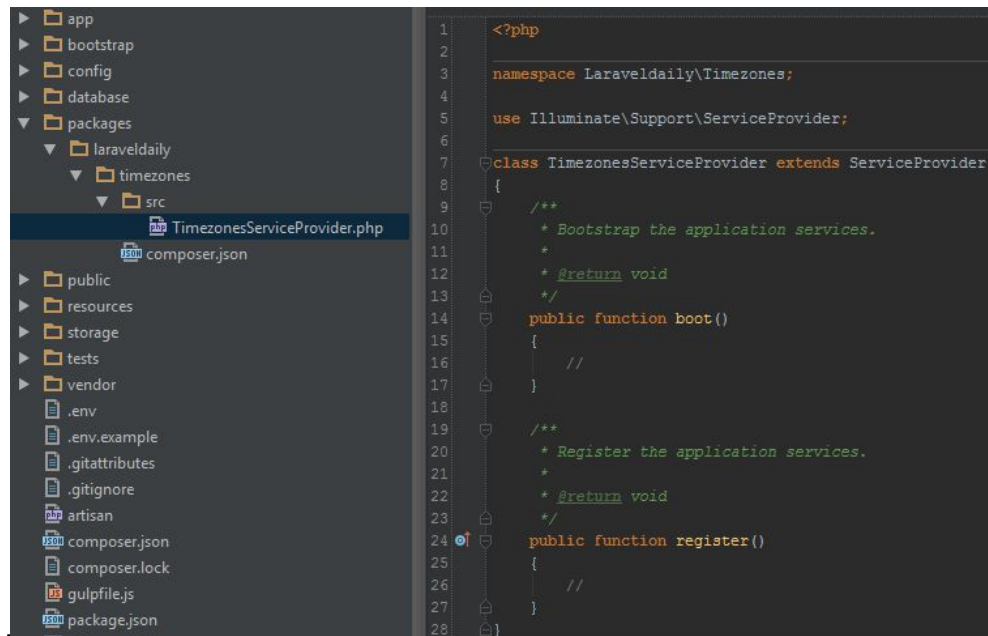
Step 4 - main composer.json

```
"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



Step 5.1 - registering provider

config/app.php:

```
'providers' => [  
    Illuminate\Foundation\Providers\ArtisanServiceProvider::class,  
    // ... other providers  
    Illuminate\View\ViewServiceProvider::class,  
    Laravel\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:

```
Route::get('timezones/{timezone}',  
    'laraveldaily\timezones\TimezonesController@index');
```

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!



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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

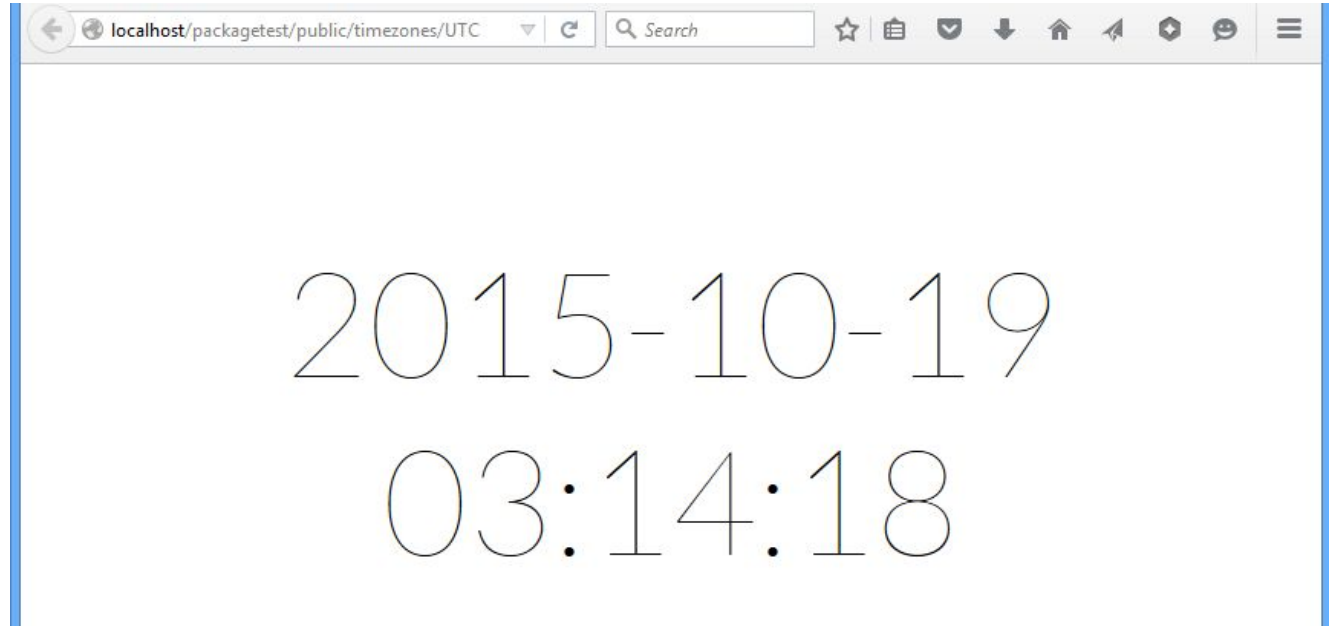
Service Provider:

```
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



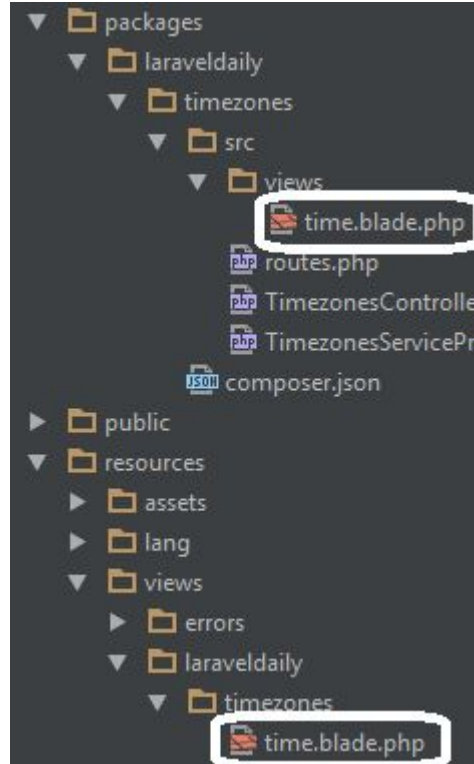
Step 10 - Publishing Views

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?

