

# New Laravel Versions Reference Guide

Laravel has release cycle ever six months. Probably in a year there would be 2 versions release, one around June and another at the end of the year. When I was recording this course I was using Laravel version 5.6, and now the current version is 6 (There's no 5.9 version).

It's hard to make updates the course every time a new version is released. That's why I made this guide so that new students could follow along all course materials using the latest version of Laravel without any problems. I'll do my best to update this guide once new version of Laravel release.

You can **download the complete guide** in the *course resource* and save it as a reference. You don't need to read the guide entirely, just read quickly. And if you find issue or find something different when following a lesson you can go back to the guide and hopefully you'll find the solution here.

But, if you can't find any solution, then you can go to **Q/A** section in Udemey and find any discussion that similar with problem you face. And just in case you couldn't find anything, then you can post your question there and I'll do my best to help you.

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Laravel UI

Since Laravel 6.0 you will not find any Bootstrap or Vue code in your fresh Laravel project. You can't generate authentication scaffold using `make:auth` command anymore. All that stuffs has been extracted into a separate composer package called `laravel/ui`.

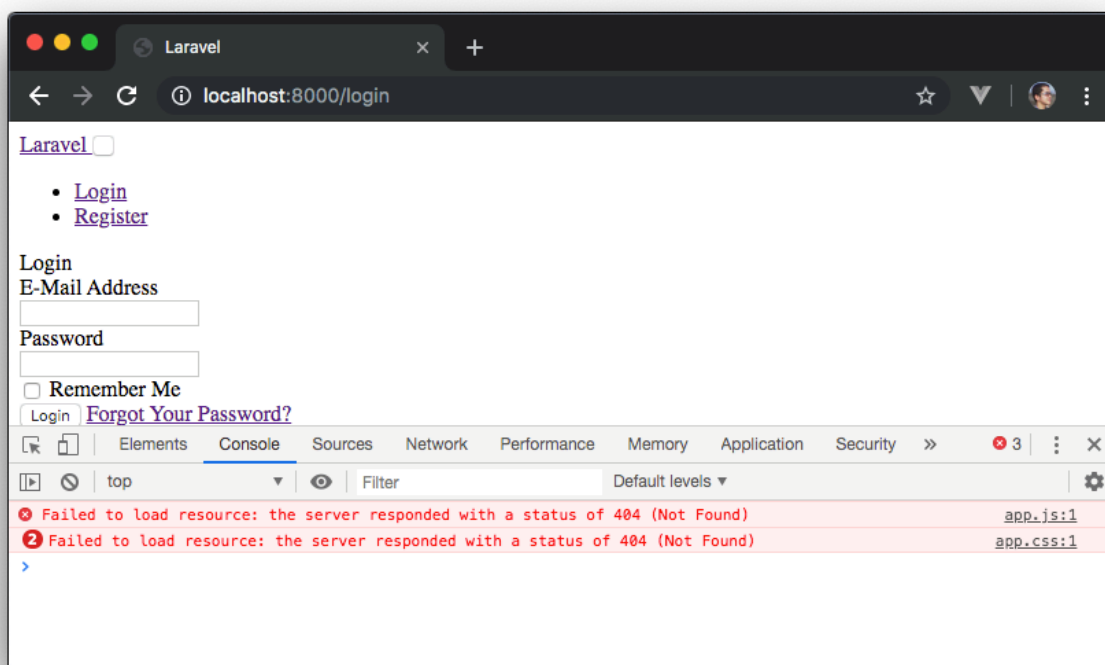
In order to use the Vue or Bootstrap as well as authentication scaffolding like in previous releases of Laravel, you need to install that package by running this command:

```
composer require laravel/ui --dev
```

Once that done, you can install the frontend as well as authentication scaffold by saying:

```
php artisan ui vue --auth
```

If you try to visit the login page, you will find broken page. And if you open your browser console, you will find "the server responded with a status of 404 (Not Found)" error like so:



To fix this issue you need to do two steps, *first* is install the frontend dependencies such as laravel mix, vue.js, bootstrap, jquery, etc by running this command:

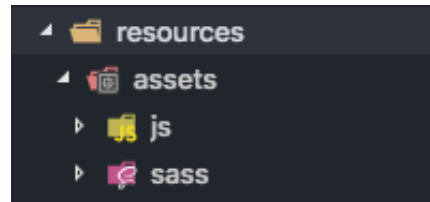
```
npm install
```

*Second* you need to tell laravel to compile all assets (javascript and scss) files and produce `app.js` and `app.css` in public directory by executing this command:

```
npm run dev
```

# Asset Directory Flattered

Before Laravel 5.7 you will find assets sub-directory inside resources directory that house the script and style files like this:

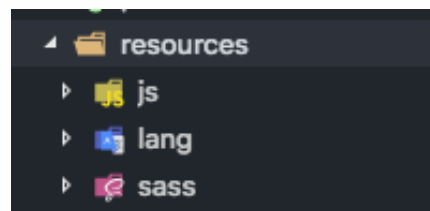


If you open the `webpack.mix.js` file you'll see these lines:

```
mix.js('resources/assets/js/app.js', 'public/js')
    .sass('resources/assets/sass/app.scss', 'public/css');
```

These lines basically tell Laravel Mix to compile the script & sass files and produce normal javascript and css file in js and css respectively.

But since Laravel 5.7 that directory has been flattered into resources directory like this:



And If you open the `webpack.mix.js` file you'll find a bit changes in javascript and sass paths.

```
mix.js('resources/js/app.js', 'public/js')
    .sass('resources/sass/app.scss', 'public/css');
```

# Email Verification (Optional)

Laravel 5.7 has introduced Email verification and Account activation out of the box. These features force registered users to activate their accounts by hitting the verification code that sent to their emails. As developer we can restrict that only verified users may access a given route.

If you've generate authentication scaffold you'll find new view file inside `resources/views/auth` called **verify.blade.php**. If you open this file it will look like this:

```
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
```



```
Auth::routes(['verify' => true]);
```

Now if you go to your terminal and type `php artisan route:list --name=verification` you'll see new routes added.

| Domain | Method   | URI               | Name                | Action  |
|--------|----------|-------------------|---------------------|---|
|        | GET HEAD | email/resend      | verification.resend | App\Http\Controllers\Auth\VerificationController@resend |
|        | GET HEAD | email/verify      | verification.notice | App\Http\Controllers\Auth\VerificationController@show   |
|        | GET HEAD | email/verify/{id} | verification.verify | App\Http\Controllers\Auth\VerificationController@verify |

### *Step 3 - Protect your route*

Now you can protect particular route(s) by using `verified` middleware whether in `web.php` or in your controller like this:

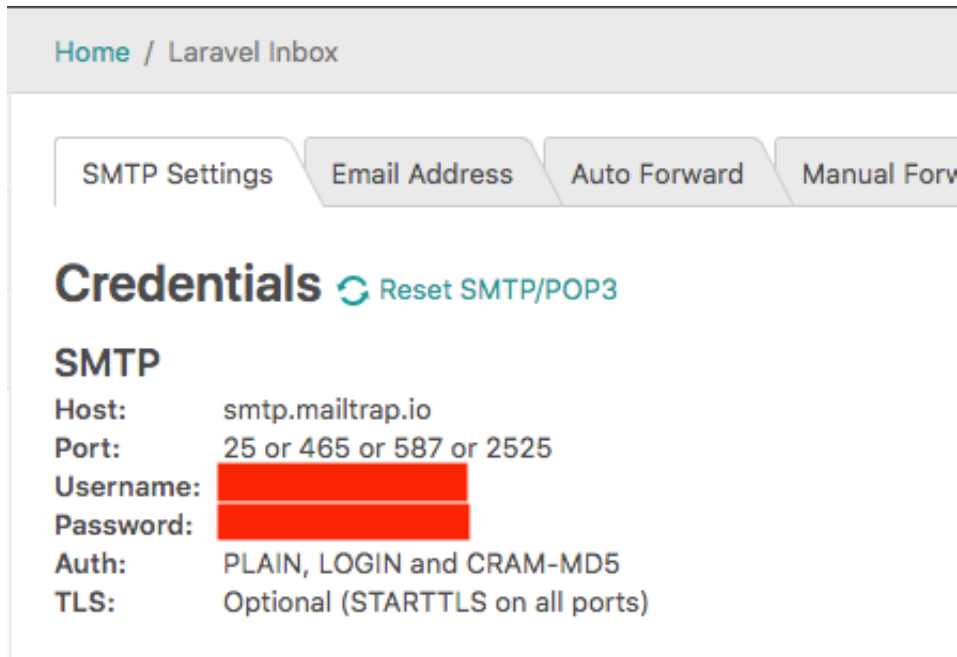
```
// web.php
Route::middleware('verified')->group(function () {
    // Put your routes here
});

// In controller you can call the verified middleware in the constructor
public function __construct()
{
    $this->middleware(['auth', 'verified']);
}
```

### *Step 4 - Setup Email Credentials*

Before you go try the email verification functionality you need to setup your email credential. If you missed this step you will get error when you try registering new user.

To do this You can simply use **mailtrap.io** to capture your email during development. Just register an account and once you've done that you can go to your inbox.



Copy username and password in the **credentials** section and paste to your `.env` file.

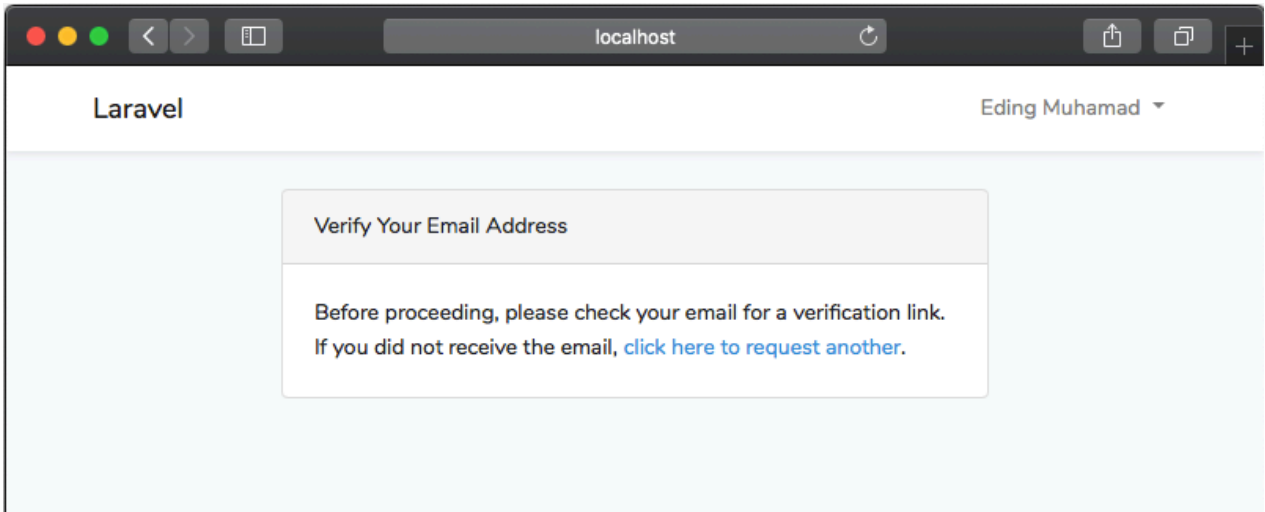
```
MAIL_DRIVER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=your-user-email
MAIL_PASSWORD=your-password-email
MAIL_ENCRYPTION=null
```

Save all changes and don't forget to restart your server to apply the changes.

### *Step 5 - Test Email Verification functionality*

You can test the Email Verification functionality by hitting the `register` button or directly enter `http://localhost:8000/register`.

If you protected your home route for example (see step 3), once the account registered you'll see the *Verify Your Email Address* message like this:



If you open your inbox in mailtrap, you'll find verification email comes in. You can then hit the **Verify Email Address** button to verify your account.

## Verify Email Address

2019-05-10 04:25  
(13 days ago)  
Size: 12 KB

**From:** Example <hello@example.com>  
**To:** <user1000@mail.com>

[More info](#)

HTML HTML Source Text Raw Analysis Check HTML

**Hello!**

Please click the button below to verify your email address.

[Verify Email Address](#)

If you did not create an account, no further action is required.

Regards,  
Laravel

---

If you're having trouble clicking the "Verify Email Address" button, copy and paste the URL below into your web browser: <http://localhost:8000/email/verify/?expires=1557465954&signature=78309->

## Migrations & bigIncrements

In prior version of Laravel (< 5.8) if you're using `php artisan make:migration create_x_table` command or `php artisan make:model TheModel -m` You'll find in your migration file two automatically added inside table definition like this:

```

public function up()
{
    Schema::create('categories', function (Blueprint $table) {
        $table->increments('id');
        $table->timestamps();
    });
}

```

What I want to highlight here is increments method. This method will generate id column as UNSIGNED INTEGER PRIMARY KEY AUTO\_INCREMENT (in mysql database).

Now in Laravel version 5.8 there's a bit change in id column definition. It's now bigIncrements which will generate id column as UNSIGNED BIG INTEGER PRIMARY KEY AUTO\_INCREMENT.

Probably it's not a big deal when you're not working with **foreign key** columns. But when you're working with them, this will be a big problem because both columns (primary column and foreign column) should have the same type.

Suppose you have create\_categories\_table migration like this:

```

class CreateCategoriesTable extends Migration
{
    public function up()
    {
        Schema::create('categories', function (Blueprint $table) {
            $table->bigIncrements('id');
            $table->string('title');
            $table->timestamps();
        });
    }
    ...
}

```

And then you also have create\_posts\_table migration which look like this:

```

class CreatePostsTable extends Migration
{
    public function up()
    {
        Schema::create('posts', function (Blueprint $table) {
            $table->bigIncrements('id');
            $table->string('title');
            $table->text('body');
            $table->unsignedInteger('category_id'); // <-- the issue
            $table->foreign('category_id')->references('id')->
            on('categories');
            $table->timestamps();
        });
    }
}

```



```
    ...  
}
```

If you run `php artisan migrate` then the `create_posts_table` migration file will be failed because the foreign key (`category_id` column) is not the same type.

So there are two possible ways that you can tackle:

1. Make both columns as `UNSIGNED INTEGER`
2. Make both columns as `UNSIGNED BIG INTEGER`

## 1. Make both columns in `UNSIGNED INTEGER`

You can make both columns as `UNSIGNED INTEGER` as follow:

```
// CreateCategoriesTable  
Schema::create('categories', function (Blueprint $table) {  
    $table->increments('id'); // <--  
    $table->string('title');  
    $table->timestamps();  
});  
// CreatePostsTable  
Schema::create('posts', function (Blueprint $table) {  
    $table->bigIncrements('id');  
    $table->string('title');  
    $table->text('body');  
    $table->unsignedInteger('category_id'); // <--  
    $table->foreign('category_id')->references('id')->on('categories');  
    $table->timestamps();  
});
```

## 2. Make both column in `UNSIGNED BIG INTEGER`

You can make both columns as `UNSIGNED BIG INTEGER` as follow:

```
// CreateCategoriesTable  
Schema::create('categories', function (Blueprint $table) {  
    $table->bigIncrements('id'); // <--  
    $table->string('title');  
    $table->timestamps();  
});  
// CreatePostsTable
```

```
Schema::create('posts', function (Blueprint $table) {
    $table->bigIncrements('id');
    $table->string('title');
    $table->text('body');
    $table->unsignedBigInteger('category_id'); // <--
    $table->foreign('category_id')->references('id')->on('categories');
    $table->timestamps();
});
```

## String & Array Classes

Since Laravel 5.8 as noted in Laravel official documentation that all `array_*` and `str_*` global helpers have been deprecated. You should use the `Illuminate\Support\Arr` and `Illuminate\Support\Str` methods directly.

For example, in prior version you used `str_slug` to generate sluggable string like this:

```
str_slug("Lorem ipsum dolor"); // lorem-ipsum-dolor
```

Now start from Laravel 5.8 you should use `Str::slug` like this:

```
use Illuminate\Support\Str;
Str::slug("Lorem ipsum dolor"); // lorem-ipsum-dolor
```

If you still prefer using those helpers in your Laravel newer version you need to install [laravel/helpers](#) package.

```
composer require laravel/helpers
```

## Parsedown Library replaced with CommonMark

Since version 6.x Laravel use [league/commonmark](#) package instead of [erusev/parsedown](#) for convert [Markdown](#) syntax to HTML.

In the previous version you can convert any Markdown to HTML like this:

```
private function bodyHtml()
{
    return \Parsedown::instance()->text($this->body);
}
```

Now in version 6.x you can do that this way:

```
protected function bodyHtml()
{
    $markdown = new CommonMarkConverter(['allow_unsafe_links' => false]);

    return $markdown->convertToHtml($this->body);
}
```

And you should import the CommonMark namespace:

```
use League\CommonMark\CommonMarkConverter;
```

## Default Password Length

In Laravel version 5.8 the minimum password length was change to *eight* characters.

```
protected function validator(array $data)
{
    return Validator::make($data, [
        ...
        'password' => ['required', 'string', 'min:8', 'confirmed'],
    ]);
}
```

This change also effect the default password in database/factories/UserFactory.php from secret to password

```
$factory->define(User::class, function (Faker $faker) {
    return [
        'name' => $faker->name,
        'email' => $faker->unique()->safeEmail,
        'email_verified_at' => now(),
        'password' =>
            '$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi', // password
        'remember_token' => Str::random(10),
    ];
});
```

## Working with Vue.js Component

There are two common ways to load components in Vue.js.

- Using *ES6-style* import statement
- Using *CommonJS-style* require statement.

Since *vue-loader* version 13.0.0 there's a bit changes when using require statement. You need to chain in the `.default` on the end of the function call.

```
// before
const Foo = require('./Foo.vue')

// after
const Foo = require('./Foo.vue').default
```

## Fontawesome 5 issue

When recording this course I was using fontawesome 5.1.0. And now the current version is 5.8.2. So there's a bit changes on how to install and use this font as follow

### *Step 1 - Install font awesome package*

Open up your terminal and type this command:

```
// Install the base package
npm install @fontawesome/fontawesome-svg-core -D

// install solid icons
npm i -S @fontawesome/free-solid-svg-icons -D

// install regular icons (optional)
npm i -S @fontawesome/free-regular-svg-icons -D

// install brand icons (optional)
npm i -S @fontawesome/free-brands-svg-icons -D
```

### *Step 2 - Load the font types*

In your javascript file you can load some fonts that you need like like this:

```
import { config, library, dom } from '@fontawesome/fontawesome-svg-core';
config.autoReplaceSvg = 'nest';
```

```
import { faCaretUp,  
        faCaretDown,  
        faStar,  
        faCheck } from '@fortawesome/free-solid-svg-icons';  
  
library.add(faCaretUp,  
            faCaretDown,  
            faStar,  
            faCheck);  
  
// Kicks off the process of finding <i> tags and replacing with <svg>  
dom.watch();
```

### *Step 3 - Using the font*

You can use the font that you have defined in your view by using `<i class="fa font-type"></i>`. Please take a look this code:

```
<i class="fa fa-caret-up"></i>
```