# Migration 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 5.8.

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 Udemy and find any discussion that similar with problem you face. And just in case you can't find anything, then you can post your question there and I'll do my best to help you.

#### **Migration Guide**

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## Asset Directory Flatterned

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 flatterned 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.

Now when you run this command php artisan make:auth you'll find new view file inside resources/views/auth called verify.blade.php. If you open this file it will look like this:

```
@if (session('resent'))
                        <div class="alert alert-success" role="alert">
                            {{ __('A fresh verification link has been sent to
your email address.') }}
                        </div>
                    @endif
                    {{ __('Before proceeding, please check your email for a
verification link.') }}
                    {{ __('If you did not receive the email') }}, <a href="{{
route('verification.resend') }}">{{ __('click here to request another') }}
</a>.
                </div>
            </div>
        </div>
    </div>
</div>
@endsection
```

If you want to use these feature you can follow these steps

### Step 1 - Implement mustVerifyEmail interface in the User model

Open your User model and implement the mustVerifyEmail interface like this:

```
class User extends Authenticatable implements MustVerifyEmail
{
   use Notifiable;
   ...
}
```

### Step 2 - Enable Verification Route

Open your routes/web.php and specify verify option in Auth::routes as follow:

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

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

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

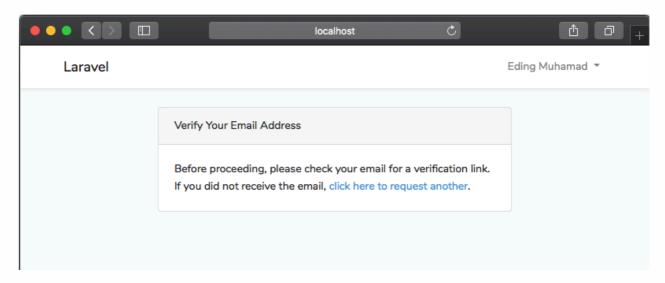
Before you go try the email verification functionality you need to setup your email credential. If you missed this step you will got error when you try registering new user.

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 the credentials and paste to your .env file.

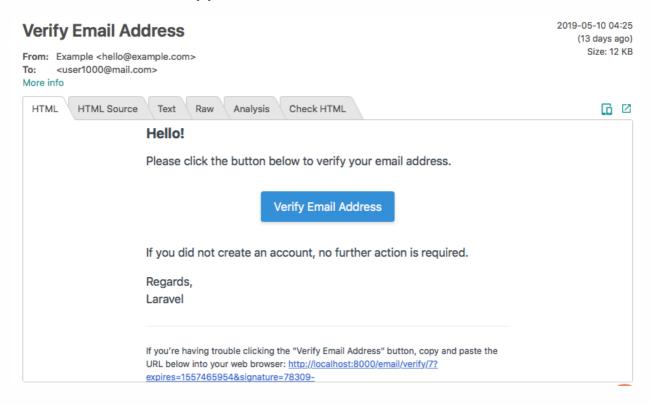
```
MAIL_DRIVER=smtp
MAIL_HOST=smtp.mailtrap.io
MAIL_PORT=2525
MAIL_USERNAME=your-user-email
MAIL_PASSWORD=your-password-email
MAIL_ENCRYPTION=null
```

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 Yor 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.



# 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 generates 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.

Probabbly 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 has the same type.

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

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

```
}
```

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->text('body');
    $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 persion you used str\_slug to generate sluggable string like this:

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

Now in Laravel 5.8 you could 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
```

# Default Password Length

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

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

# 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 @fortawesome/fontawesome-svg-core -D

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

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

// install brand icons (optional)
npm i -S @fortawesome/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:

# 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>
```