

3 Development stack

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PHP

DB (MySQL, MariaDB)

Web Server (Optional)

Composer (php manager - dependency manger)

Laravel Installer (Optional)

composer install

composer create-project --prefer-dist laravel/laravel *project-name*

Laravel new project-name

Stacks

1. XAMPP

- a. Php, MariaDB, Apache, PHPMyAdmin
- b. Mac, Windows, Linux

2. Valet

- a. Serve your site with minimal setting
- b. Require Homebrew
- c. Only for Mac

3. Sail

- a. Is light-weight CLI for interacting with Docker

Other

Sublime text

VS Code

Node.js (npm, jaan)

git

Run

Php artisan serve --host=[hostname] --port=[portNo]

Migration

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Any database related configuration

`/.env`
`/config/database.php`

Php artisan make:migration create_companies_table
Creates
`/database/migrations/[date]create_companies_table.php`

Tow methods

`Up()` > executed when we do migration

`Down()` > executed when we undo migration (rollback)

Php artisan migrate

Php artisan migration:rollback

E.g.

```
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
class CreateCompaniesTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('companies', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('address')->nullable();
            $table->string('website')->nullable();
            $table->string('email');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('companies');
    }
}
```

Seeding

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Seeder files r in

/database/seeds/

Main seeder file

/database/seeds/DatabaseSeeder.php

- db:seed calls this seeder file

Php artian make:seeder [Companies]TableSeeder

Php artisan db:seed --class=[Companies]TableSeeder

Seeding with faker library

- Generates realistic data for tables like company, address, DomainName, email, name ...

```
use Faker\Factory as Faker;
```

```
$faker = Faker::create();
```

```
$faker->company(),
```

```
$faker->name(),
```

```
$faker->address(),
```

E.g.

```
<?php
```

```
namespace Database\Seeders;
```

```
use Illuminate\Database\Seeder;
```

```
use Illuminate\Support\Facades\DB;
```

```
use Faker\Factory as Faker;
```

```
class CompaniesTableSeeder extends Seeder
```

```
{
```

```
    /**
```

```
     * Run the database seeds.
```

```
     *
```

```
     * @return void
```

```
    */
```

```
    public function run()
```

```
    {
```

```
        DB::table('companies')->truncate();
```

```
        $companies = [];
```

```
        $faker = Faker::create();
```

```
        foreach(range(1,10) as $index){
```

```
            $companies[] = [
```

```
                'name' => $faker->company(),
```

```
                'address' => $faker->address(),
```

```
                'website' => $faker->domainName(),
```

```
                'email' => $faker->email(),
```

```
                'created_at' => now(),
```

```
                'updated_at' => now(),
```

```
            ];
```

```
        }
```

```
        DB::table('companies')->insert($companies);
```

```
    }
```

```
}
```

Eloquent Model

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Model representing business data and logic

Model object is responsible retrieving and processing data in a certain table

Eloquent ORM

- **Active recorded** pattern for accessing data from DB
- Database view/tables is represented by a class/rules; object instances is tied to a single row or data
- **ORM** (object relational mapping) - DB abstraction layer providing single interface to interact with different database types

`php artisan make:model [Company]`

Inside

`/App/Models/`

Table maing conventions

Model	Table
Singular	Plural
TheFirstLaterOfEachWordCapitalized	all_lowerchase_underscores_separating
Company	companies
PurchaseOrder	purchase_orders

Eloquent common commands

<code>Company::take(3)</code>	Return Builder
<code>Company::take(3)->get();</code>	Return Collections of arrays raped with all
<code>Company::take(3)->get()->all();</code>	Returns array of data
<code>Company::find(1,3,5);</code>	Returns companies with Id 1,3&5
<code>Company::whereid(1);</code>	Returns companies with Id 1
<code>Company::destroy(1, 3)</code>	Returns 2 for succuss row affected

Mass Assignment

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Assigning multiple data to Eloquent using array

1. Array attributes must be the same or u need to specify **fillable** inside the **model**
2. Or **guarded** to guard attributes that cannot be filled in **mass**

```
use Illuminate\Database\Eloquent\Model;

class Company extends Model
{
    protected $fillable = ['name', 'address', 'email', ''];
}
```

```
use Illuminate\Database\Eloquent\Model;

class Company extends Model
{
    protected $guarded = [];
}
```

Exercise 1

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`php artisan make:model Contact -m`

Crate model + migration

090 Eloquent Relationship - Inserting & updating Models

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- Manages relationship between two models
 - o One to one
 - o One to many
 - o One to many (Inverse)
 - o Many to many
 - o Defining custom intermediate table models
 - o Has one through
 - o Has many through

ONE TO MANY

E.g. Company has many contacts

Company.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
class Company extends Model
{
    use HasFactory;
    public function contacts()
    {
        return $this->hasMany(Contact::class,
        'company_id');
    }
}
```

Insert data

E.g. insert two contacts for a company

```
$contacts = [ $contact1, $contact2]
$company->contacts()->saveMany($contacts);
$company->contacts()->createMany($contacts);
```

Delete

```
$company->contacts()->delete()
```

Contact.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
class Contact extends Model
{
    use HasFactory;
    public function company()
    {
        return $this->belongsTo(Company::class, 'id');
    }
}
```

010 Eloquent Relationship - Querying Relations -

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Relationship method

`$company->contacts()->get();` gets all company contacts
`$company->contacts()->find(3);` company contact with contact id 3
`$company->contacts()->orderBy('id', 'desc')->first();`

Dynamic property

`$company->contacts` gets all company contacts (eloquent collection)
`$company->contacts->email` don't work b/c many contact one-to-many relations
`$contact->company` gets contacts company
`$contact->company->name`

011 Model Factories

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php artisan make:factory ContactFactory -m Contact create factory for contact table inside /database/factories/ContactFactory.php don't have to specify the model name

```
<?php
namespace Database\Factories;
use App\Models\Company;
use Illuminate\Database\Eloquent\Factories\Factory;
use Faker\Factory as Faker;
class ContactFactory extends Factory
{
    /**
     * Define the model's default state.
     *
     * @return array
     */
    public function definition()
    {
        $faker = Faker::create();

        return [
            'first_name' => $faker->firstName(),
            'last_name' => $faker->lastName(),
            'phone' => $faker->phone(),
            'email' => $faker->email(),
            'address' => $faker->address(),
            'company_id' => Company::pluck('id')->random()
        ];
    }
}
```

CREATING MODELS USING FACTORIES

Below Laravel 8	Laravel 8+
<code>factory(Contact::class)->create()</code>	<code>Contact::factory()->create()</code>
<code>factory(Contact::class)->make()</code>	<code>Contact::factory()->make()</code>
<code>factory(Contact::class, 5)->create()</code>	<code>Contact::factory()->count(5)->create()</code>

```
<?php
namespace Database\Seeders;
use App\Models\Contact;
use Faker\Factory as Faker;
use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;
class ContactsTableSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        Contact::factory()->count(50)->create();
    }
}
```

```
<?php
namespace Database\Seeders;
use Illuminate\Database\Seeder;
class DatabaseSeeder extends Seeder
{
    /**
     * Seed the application's database.
     *
     * @return void
     */
    public function run()
    {
        // \App\Models\User::factory(10)->create();
        $this->call([
            CompaniesTableSeeder::class,
        ]);
    }
}
```

Refresh DB and seed drop all tables

`php artisan migrate:fresh --seed`

```
        ContactsTableSeeder::class,  
    ]);  
    // $this->call(ContactsTableSeeder::class);  
}  
}
```

04 - Routing, Controllers & Views

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001 Basic Routing

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Is the mechanism to route requests to associated actions

</routes/web.php>

</routes/api.php>

</routes/console.php>

`Route::[method]('request', 'map action');`

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

```
Route::get('/contacts/{id}', function($id){  
    return Contact::find($id);  
});
```

002 Named Routes

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We can use route naming

Php artisan route:list

Php artisan route:list --path=contacts -r all routes containing contacts in reverse order

```
Route::get('/contacts/{id}', function($id){  
    return Contact::find($id);  
})->name('contacts.show');
```

//And call inside blade

```
<a href="{{ route('contacts.show', 1) }}" class="
```

003 Views

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Is a representation layer for users to interact

[/resources/views/*](#)

Two view file types

- i. Plain .php rendered in php engine
- ii. blade.php file rendered using blade engine to plain php located inside
/storage/framework/views/*

/route/Web.php

```
Route::get('/contacts/{id}', function($id){  
    $contact = Contact::find($id);  
    return view('contacts.show', compact('contact'));  
})->name('contacts.show');
```

* compact() will create an associative array ['contact'=>'\$contact']

/resources/views/contacts/show.blade.php

<h2>contacts view</h2>

```
<a href="{{ route('contacts.index') }}">Home</a>  
<a href="{{ route('contacts.create') }}">Add New</a>  
<a href="{{ route('contacts.show', 1) }}">show 1 Contact</a>  
<div>  
    {{ $contact }}  
</div>
```

004 Controllers

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MVC

Model - represent business logic

View - visual representation

Controller - manage flow of application by redirecting traffics between models and views - it performs some logic and pass result to views

[/app/Http/Controllers](#)

`php artisan make:controller ContactController.php` named by singular

-r with methods (index, show, edit, update, delete ..)

-m [ModelName] with methods using model binding

`/app/Http/Controllers/ContactController.php`

```
<?php
namespace App\Http\Controllers;
use App\Models>Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index(){
        return view('contacts.index');
    }

    public function create(){
        return view('contacts.create');
    }
    public function show($id){
        $contact = Contact::find($id);
        return view('contacts.show', compact('contact'));
    }
}
```

Implementation using Controllers

`/routes/web.php`

```
Route::get('/contacts', [ContactController::class, 'index'])->name('contacts.index');
Route::get('/contacts/create', [ContactController::class, 'create'])->name('contacts.create');
Route::get('/contacts/{id}', [ContactController::class, 'show'])->name('contacts.show');
```

005 Building Application Layout using Blade Template Inheritance

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Assets inside [/public](#)

`{{ asset("") }}`

Directives

`@yield("")` reserve spots for section to be included

`@section("")` are partial codes that are yielded

`@endsection("")`

`@extends("")`

`@include("")` include partial files

Separating file help us when making changes

001 Displaying all contacts

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Controller fetch data and pass to view

/app/Http/Controllers/ContactController.php

```
<?php
namespace App\Http\Controllers;
use App\Models\Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index(){
        $contacts = Contact::orderBy('first_name','asc')->get();
        return view('contacts.index', compact('contacts'));
    }
}
```

/resources/views/contacts/index.blade.php

```
<tbody>
    @if ($contacts->count())
        @foreach ($contacts as $index=>$contact )
            <tr>
                <th scope="row">{{ $index+1 }}</th>
                <td>{{ $contact->first_name }}</td>
                <td>{{ $contact->last_name }}</td>
                <td>{{ $contact->email }}</td>
                <td>{{ $contact->company->name }}</td>
                <td width="150">
                    <a href="show.html" class="btn btn-sm btn-circle btn-outline-info"
                        title="Show"><i class="fa fa-eye"></i></a>
                    <a href="form.html" class="btn btn-sm btn-circle btn-outline-secondary"
                        title="Edit"><i class="fa fa-edit"></i></a>
                    <a href="#" class="btn btn-sm btn-circle btn-outline-danger"
                        title="Delete" onclick="confirm('Are you sure?')"><i
                        class="fa fa-times"></i></a>
                </td>
            </tr>
        @endforeach
    @endif
```

002 Adding pagination

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/app/Providers/AppServiceProvider.php

<?php

namespace App\Http\Controllers;

use App\Models>Contact;

use Illuminate\Http\Request;

class ContactController extends Controller

{

public function index(){

\$contacts = Contact::orderBy('first_name','asc')->paginate(10);

return view('contacts.index', compact('contacts'));

}

Fetch with paginate of 10

/resource/views/contacts/index.blade.php

<div class="pagination justify-content-center">

{{ \$contacts->links() }}

</div>

Place pagination link to views

/app/Providers/AppServiceProvider.php

<?php

namespace App\Providers;

use Illuminate\Support\ServiceProvider;

use Illuminate\Pagination\Paginator;

class AppServiceProvider extends ServiceProvider

{

/**

* Register any application services.

*

* @return void

*/

public function register()

{

//

}

/**

* Bootstrap any application services.

*

* @return void

*/

public function boot()

{

//

// \Illuminate\Pagination\Paginator::useBootstrap();

Paginator::useBootstrap();

}

}

Enable bootstrap

003 Exercise 3 - Display all companies on dropdown list

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/app/Http/Controllers/ContactController.php

```
<?php
namespace App\Http\Controllers;
use App\Models\Company;
use App\Models>Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index(){
        $companies = Company::select('id','name')->get();
        $contacts = Contact::orderBy('first_name','asc')->paginate(10);
        return view('contacts.index', compact('contacts','companies'));
    }
}
```

Optional

```
$companies = Company::orderBy('name')->pluck('name','id');
```

/resources/views/contacts/_filter.blade.php

```
<div class="row">
    <div class="col-md-6"></div>
    <div class="col-md-6">
        <div class="row">
            <div class="col">
                <select class="custom-select">
                    <option value="" selected>All Companies</option>
                    @if ($companies->count())
                        @foreach ($companies as $company )
                            <option value="{{ $company->id }}">{{ $company->name }}</option>
                        @endforeach
                    @endif
                </select>
            </div>
            <div class="col">
                <div class="input-group mb-3">
                    <input type="text" class="form-control" placeholder="Search..." aria-label="Search..." aria-describedby="button-addon2">
                    <div class="input-group-append">
                        <button class="btn btn-outline-secondary" type="button">
                            <i class="fa fa-refresh"></i>
                        </button>
                        <button class="btn btn-outline-secondary" type="button" id="button-addon2">
                            <i class="fa fa-search"></i>
                        </button>
                    </div>
                </div>
            </div>
        </div>
    </div>
</div>
```

004 Filtering contacts by company

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Using java script change url link

Then on contact controller query where request is available

/public/js/app.js

```
document.getElementById('filter_company_id').addEventListener('change', function () {  
    let companyId = this.value || this.options[this.selectedIndex].value  
    window.location.href = window.location.href.split('?')[0] + '?company_id=' + companyId  
})
```

- On select change append compnay_id to url and pass to controller

/ap/Http/controllers/ContactController.php

```
<?php  
namespace App\Http\Controllers;  
use App\Models\Company;  
use App\Models>Contact;  
use Illuminate\Http\Request;  
class ContactController extends Controller  
{  
    public function index()  
    {  
        // $companies = Company::select('id','name')->prepend('', 'All Company')->get();  
        $companies = Company::orderBy('name')->pluck('name', 'id')->prepend('All Company', '');  
        $contacts = Contact::orderBy('first_name', 'asc')->where(function ($query) {  
            if ($companyId = request('company_id')) {  
                $query->where('company_id', $companyId);  
            }  
        })->paginate(10);  
        return view('contacts.index', compact('contacts', 'companies'));  
    }  
}
```

- Controller where close if *company_id* is in request then filters fetched data

/resource/view/contacts/index.blade.php

```
<div class="pagination justify-content-center">  
    {{ $contacts->appends(request()->only('company_id'))->links() }}  
</div>
```

- To fix pagination error on request new data

001 Handling Form

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/routes/web.php

```
Route::post('/contacts', [ContactController::class, 'store'])->name('contacts.store');
```

/resources/views/contacts/create.blade.php

```
<form action="{{ route('contacts.store') }}" method="POST">
    @csrf
    @method('POST')
    @include('contacts._form')
</form>
```

/app/Http/Controllers/ContactController.php

```
<?php
namespace App\Http\Controllers;
use App\Models\Company;
use App\Models>Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index()
    {
        // $companies = Company::select('id','name')->prepend('', 'All Company')->get();
        $companies = Company::orderBy('name')->pluck('name', 'id')->prepend('All Company', '');
        $contacts = Contact::orderBy('first_name', 'asc')->where(function ($query) {
            if ($company_id = request('company_id')) {
                $query->where('company_id', $company_id);
            }
        })->paginate(10);
        return view('contacts.index', compact('contacts', 'companies'));
    }
    public function create()
    {
        $companies = Company::orderBy('name')->pluck('name', 'id')->prepend('All Company', '');
        return view('contacts.create', compact('companies'));
    }
    public function store(Request $request)
    {
        dd($request);
    }
}
```

Restful resource

| Acton | URL | Verb/method | Name |
|---------|--------------------------|-------------|--------------------|
| Index | /contacts | GET | Contacts.index |
| Create | /contacts/create | GET | Contacts.create |
| Store | /contacts | POST | Contacts.store |
| Show | /contacts/{contact} | GET | Contacts.show |
| Edit | /contacts/{contact}/edit | GET | Contacts.edit |
| Update | /contacts/{contact} | PUT/PATCH | Contact.update |
| Destroy | /contact/{contact} | DELET | Contacts.destroery |

002 Adding Form Validation

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/app/Http/Controllers/ContactController.php

```
public function store(Request $request)
{
    $request->validate([
        'first_name' => 'required',
        'last_name' => 'required',
        'email' => 'required|email',
        'address' => 'required',
        'company_id' => 'required|exists:companies,id'
    ]);
    dd($request->all());
}
```

Restful resource

| Acton | URL | Verb/method | Name |
|---------|--------------------------|-------------|--------------------|
| Index | /contacts | GET | Contacts.index |
| Create | /contacts/create | GET | Contacts.create |
| Store | /contacts | POST | Contacts.store |
| Show | /contacts/{contact} | GET | Contacts.show |
| Edit | /contacts/{contact}/edit | GET | Contacts.edit |
| Update | /contacts/{contact} | PUT/PATCH | Contact.update |
| Destroy | /contact/{contact} | DELET | Contacts.destroery |

/resources/views/contacts/_form.blade.php

```
<div class="form-group row">
<label for="phone" class="col-md-3 col-form-label">Phone</label>
<div class="col-md-9">
    <input type="text" name="phone" value="{{ old('phone') }}" id="phone" class="form-control @error('phone') is-invalid @enderror">
    @error('phone')
        <div class="invalid-feedback">
            {{ $message }}
        </div>
    @enderror
</div>
</div>
```

@error('name') retrieve errors
{{ old('name') }} retrieve values passed

003 Persisting validated data into database

Friday, September 2, 2022 1:46 PM

Mass assignment

/app/Http/Controllers/ContactController.php

```
Contact::create($request->all());  
return redirect()->route('contacts.index')->with('message', 'Contact has been added successfully.');
```

Fix fillable (b/c its mass assignment)

/app/Models/Contact.php

```
protected $fillable = ['first_name',  
'last_name', 'address', 'email', 'phone', 'company_id'];
```

OR

/app/Http/Controllers/ContactController.php

```
$contact = new Contact();  
  
$contact->first_name = $request->first_name;  
$contact->last_name = $request->last_name;  
$contact->email = $request->email;  
$contact->address = $request->address;  
$contact->company_id = $request->company_id;  
  
$contact->save();
```

Restful resource

| Action | URL | Verb/method | Name |
|---------|--------------------------|-------------|--------------------|
| Index | /contacts | GET | Contacts.index |
| Create | /contacts/create | GET | Contacts.create |
| Store | /contacts | POST | Contacts.store |
| Show | /contacts/{contact} | GET | Contacts.show |
| Edit | /contacts/{contact}/edit | GET | Contacts.edit |
| Update | /contacts/{contact} | PUT/PATCH | Contact.update |
| Destroy | /contact/{contact} | DELET | Contacts.destroery |

004 Exercise 4 - Update data

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Solution

Add route

/route/web.php

```
Route::get('/contacts/{id}/edit', [ContactController::class, 'edit'])->name('contacts.edit');
Route::put('/contacts/{id}', [ContactController::class, 'update'])->name('contacts.update');
```

/app/Http/Controllers/ContactController.php

```
public function edit($id)
{
    $contact = Contact::findOrFail($id);
    $companies = Company::orderBy('name', 'id')->pluck('name', 'id')->prepend('All Company', '');

    return view('contacts.edit', compact('contact', 'companies'));
}

public function update($id, Request $request)
{
    $request->validate([
        'first_name' => 'required',
        'last_name' => 'required',
        'email' => 'required|email',
        'address' => 'required',
        'company_id' => 'required|exists:companies,id'
    ]);

    $contact = Contact::findOrFail($id);
    $contact->update($request->except('_token', '_method'));
    return view('contacts.index')->with('message', 'Contact has been updated successfully');
}
```

/resource/views/contacts/edit.blade.php

```
@extends('layouts.main')
@section('title', 'Contact App | Create Contacts')
@section('content')
    <main class="py-5">
        <div class="container">
            <div class="row justify-content-md-center">
                <div class="col-md-8">
                    <div class="card">
                        <div class="card-header card-title">
                            <strong>Edit Contact</strong>
                        </div>
                        <div class="card-body">
                            <form action="{{ route('contacts.update', $contact->id) }}" method="POST">
                                @csrf
                                @method('PUT')
                                @include('contacts._form')
                            </form>
                        </div>
                    </div>
                </div>
            </div>
        </main>
    @endsection
```

Update form old("",data)

/resource/views/contacts/_form.blade.php

```
<div class="row">
    <div class="col-md-12">
        <div class="form-group row">
            <label for="first_name" class="col-md-3 col-form-label">First Name</label>
            <div class="col-md-9">
                <input type="text" name="first_name" value="{{ old('first_name', $contact->first_name) }}" id="first_name" class="form-control @error('first_name') is-invalid @enderror">
                @error('first_name')
                <div class="invalid-feedback">
                    {{ $message }}
                </div>
            </div>
        </div>
    @enderror
```



```

    </div>
  </div>
  <div class="form-group row">
    <label for="last_name" class="col-md-3 col-form-label">Last Name</label>
    <div class="col-md-9">
      <input type="text" name="last_name" value="{{ old('last_name', $contact->last_name) }}" id="last_name" class="form-control @error('last_name') is-invalid @enderror">
      @error('last_name')
      <div class="invalid-feedback">
        {{ $message }}
      </div>
    </div>
  </div>
  <div class="form-group row">
    <label for="email" class="col-md-3 col-form-label">Email</label>
    <div class="col-md-9">
      <input type="text" name="email" value="{{ old('email', $contact->email) }}" id="email" class="form-control @error('email') is-invalid @enderror">
      @error('email')
      <div class="invalid-feedback">
        {{ $message }}
      </div>
    </div>
  </div>
  <div class="form-group row">
    <label for="phone" class="col-md-3 col-form-label">Phone</label>
    <div class="col-md-9">
      <input type="text" name="phone" value="{{ old('phone', $contact->phone) }}" id="phone" class="form-control @error('phone') is-invalid @enderror">
      @error('phone')
      <div class="invalid-feedback">
        {{ $message }}
      </div>
    </div>
  </div>
  <div class="form-group row">
    <label for="name" class="col-md-3 col-form-label">Address</label>
    <div class="col-md-9">
      <textarea name="address" value="{{ old('address', $contact->address) }}" id="address" rows="3" class="form-control @error('address') is-invalid @enderror">{{ old('address', $contact->address) }}</textarea>
      @error('address')
      <div class="invalid-feedback">
        {{ $message }}
      </div>
    </div>
  </div>
  <div class="form-group row">
    <label for="company_id" class="col-md-3 col-form-label">Company</label>
    <div class="col-md-9">
      <select name="company_id" id="company_id" class="form-control @error('company_id') is-invalid @enderror">
        @foreach ($companies as $id => $name)
          <option value="{{ $id }}" @if (old('company_id', $contact->company_id) == $id) selected @endif>{{ $name }}</option>
        @endforeach
      </select>
      @error('company_id')
      <div class="invalid-feedback">
        {{ $message }}
      </div>
    </div>
  </div>
  <hr>
  <div class="form-group row mb-0">
    <div class="col-md-9 offset-md-3">
      <button type="submit" class="btn btn-primary">{{ $contact->exists ? 'Update' : 'Save' }}</button>
      <a href="{{ route('contacts.index') }}" class="btn btn-outline-secondary">Cancel</a>
    </div>
  </div>
</div>
</div>
</div>

```

005 Deleting the Data

Friday, September 2, 2022 6:07 PM

Add route

/routes/web.php

```
Route::delete('/contacts/{id}', [ContactController::class, 'destroy'])->name('contacts.destroy');
```

Add destroy attribute to controller

```
public function destroy($id)
{
    Contact::destroy($id);
    return redirect()->route('contacts.index')->with('message', 'Contact has been deleted successfully');
}
```

Adding link and form

/resources/views/contacts/index.php

```
<a href="{{ route('contacts.destroy', $contact->id) }}"
    class="btn btn-sm btn-circle btn-outline-danger btn-delete" title="Delete"
    ><i class="fa fa-times"></i></a>
</td>
</tr>
@endforeach
<form id="form-delete" action="" method="POST" style="display: none">
    @csrf
    @method('DELETE')
</form>
```

Using JavaScript - get link action and submit form

/public/js/app.js

```
document.querySelectorAll('.btn-delete').forEach((button) => {
    button.addEventListener('click', function(event){
        event.preventDefault()
        if(confirm("Are you sure?")){
            let action = this.getAttribute('href')
            let form = document.getElementById('form-delete')
            form.setAttribute('action',action)
            form.submit()
        }
    })
})
```

001 Building a Search Form

Saturday, September 3, 2022 3:17 PM

Use get method for search input
Then submit using JavaScript

/resources/views/contacts/_filter.blade.php

```
<form action="">
  <div class="row">
    <div class="col">
      <select id="filter_company_id" name="company_id" class="custom-select">
        {{-- <option value="" selected>All Companies</option> --}}
        @if ($companies->count())
          @foreach ($companies as $id => $name)
            <option {{ $id == request('company_id') ? 'selected' : '' }} value="{{ $id }}">
              {{ $name }}</option>
          @endforeach
        @endif
      </select>
    </div>
    <div class="col">
      <div class="input-group mb-3">
        <input name="search" id="search" value="{{ request('search') }}" type="text" class="form-control" placeholder="Search..." aria-label="Search..."
          aria-describedby="button-addon2">
        <div class="input-group-append">
          <button id="btn-clear" class="btn btn-outline-secondary" type="button">
            <i class="fa fa-refresh"></i>
          </button>
          <button class="btn btn-outline-secondary" type="submit" id="button-addon2">
            <i class="fa fa-search"></i>
          </button>
        </div>
      </div>
    </div>
  </div>
</form>
```

Just add a where inside query function when get-request has search

```
<?php
namespace App\Http\Controllers;
use App\Models\Company;
use App\Models>Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index()
    {
        // $companies = Company::select('id','name')->prepend('', 'All Company')->get();
        $companies = Company::orderBy('name')->pluck('name', 'id')->prepend('All Company', '');
        $contacts = Contact::orderBy('id', 'desc')->where(function ($query) {
            if ($company_id = request('company_id')) {
                $query->where('company_id', $company_id);
            }
            if ($search = request('search')) {
                $query->where('first_name', 'LIKE', "%{$search}%");
            }
        })->paginate(10);

        // dd($contacts);
        return view('contacts.index', compact('contacts', 'companies'));
    }
}
```

}

002 Local Scopes

Saturday, September 3, 2022 9:37 PM

Local scopes allow u to define common sets of constraints that u may easily re-use throughout ur application. Like u need to retrieve popular users many times throughout ur application.

- Are defined inside the models
- Used like query methods in Eloquent

```
public function scope[Name]($query){  
    return $query->[Method]  
}
```

/app/Models/Contact.php

```
<?php  
namespace App\Models;  
use Illuminate\Database\Eloquent\Factories\HasFactory;  
use Illuminate\Database\Eloquent\Model;  
class Contact extends Model  
{  
    use HasFactory;  
    protected $fillable = ['first_name', 'last_name', 'address', 'email', 'phone', 'company_id'];  
    public function company()  
    {  
        return $this->belongsTo(Company::class);  
    }  
    public function scopeLatestFirst($query)  
    {  
        return $query->orderBy('id', 'desc');  
    }  
    public function scopeFilter($query)  
    {  
        if ($company_id = request('company_id')) {  
            $query->where('company_id', $company_id);  
        }  
        if ($search = request('search')) {  
            $query->where('first_name', 'LIKE', "%{$search}%");  
        }  
        return $query;  
    }  
}
```

/app/Http/Controllers/ContactController.php

```
<?php  
namespace App\Http\Controllers;
```

```
use App\Models\Company;
use App\Models>Contact;
use Illuminate\Http\Request;
class ContactController extends Controller
{
    public function index()
    {
        // $companies = Company::select('id','name')->prepend('','All Company')->get();
        $companies = Company::orderBy('name')->pluck('name', 'id')->prepend('All Company', '');
        $contacts = Contact::latestFirst()->filter()->paginate(10);

        // dd($contacts);
        return view('contacts.index', compact('contacts', 'companies'));
    }
}
```

003 Global Scopes

Sunday, September 11, 2022 6:24 PM

Global scopes allow you to add constraints to all queries for a given model.

Reduce redundant queries in a model

Use Illuminate\Database\Eloquent\Scope

Class *MyCustomScope* implements Scope

```
{
    public function apply(Builder $builder, Model $model)
    {
    }
}
```

/app/Scopes/FilterScope.php

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
class FilterScope implements Scope
{
    public function apply(Builder $builder, Model $model)
    {
        if ($company_id = request('company_id')) {
            $builder->where('company_id', $company_id);
        }
        if ($search = request('search')) {
            $builder->where('first_name', 'LIKE', "%{$search}%");
        }
        return $builder;
    }
}
```

/app/Models/Contact.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use App\Scopes\FilerScope;
class Contact extends Model
{
    use HasFactory;
    protected $fillable = ['first_name',
'last_name', 'address', 'email', 'phone', 'company_id'];
    public function company()
    {
        return $this->belongsTo(Company::class);
    }
    public function scopeLatestFirst($query)
    {
        return $query->orderBy('id', 'desc');
    }
    protected static function booted()
    {
        static::addGlobalScope(new \App\Scopes\FilterScope);
    }
}
```

004 Adding more criteria on our Search global scope

Thursday, September 15, 2022 4:38 PM

```
SELECT * from `contacts` WHERE `contact__id` = ? AND (`first_name` LIKE ? OR `last_name` LIKE ? OR `email` LIKE ?)
```

/app/Scopes/FilterScope.php

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
class FilterScope implements Scope
{
    public function apply(Builder $builder, Model $model)
    {
        if ($company_id = request('company_id')) {
            $builder->where('company_id', $company_id);
        }
        return $builder;
    }
}
```

/app/Scope/SearchScope.php

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
class SearchScope implements Scope
{
    public function apply(Builder $builder, Model $model)
    {
        if ($search = request('search')) {
            $builder->where('first_name', 'LIKE', "%{$search}%");
            $builder->orWhere('last_name', 'LIKE', "%{$search}%");
            $builder->orWhere('email', 'LIKE', "%{$search}%");
        }
        return $builder;
    }
}
```

/app/Models/Contact.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use App\Scopes\FilerScope;
class Contact extends Model
{
    use HasFactory;
    protected $fillable = ['first_name', 'last_name', 'address', 'email', 'phone', 'company_id'];
    public function company()
    {
        return $this->belongsTo(Company::class);
    }
    public function scopeLatestFirst($query)
    {
        return $query->orderBy('id', 'desc');
    }
    protected static function booted()
    {
        static::addGlobalScope(new \App\Scopes\FilterScope);
        static::addGlobalScope(new \App\Scopes\SearchScope);
    }
}
```

Bonus

U can add search createria other models like company name

U can add search createria other models like company name

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
use PhpParser\Node\Expr\FuncCall;
class SearchScope implements Scope
{
    public function apply(Builder $builder, Model $model)
    {
        if ($search = request('search')) {
            $builder->where('first_name', 'LIKE', "%{$search}%");
            $builder->orWhere('last_name', 'LIKE', "%{$search}%");
            $builder->orWhere('email', 'LIKE', "%{$search}%");
            $builder->orWhere('company', 'LIKE', function($query) use ($search){
                $query->where('name', 'LIKE', "%{$search}%");
            });
        }
        return $builder;
    }
}
```

005 Removing Global Scopes

Thursday, September 15, 2022 4:46 PM

For specific query

`Contact::withoutGlobalScope([FilterScope::Class]->get());` it get all contact without the filter or empty mean remove all scopes

006 Make our Global Scopes reusable

Thursday, September 15, 2022 5:20 PM

Reusable scopes meaning scopes that can be used in many models

/app/Scope/Search

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
use PhpParser\Node\Expr\FuncCall;
class SearchScope implements Scope
{
    protected $searchColumns = [];

    public function apply(Builder $builder, Model $model)
    {
        if ($search = request('search')) {
            foreach ($this->searchColumns as $column) {
                $arr = explode('.', $column);
                if(count($arr) == 2)
                {
                    list($relationship, $col) = $arr;

                    $builder->orWhereHas($relationship, function($query) use ($search,$col){
                        $query->where($col,'LIKE', "%{$search}%");
                    });
                }
                else{
                    $builder->orWhere($column, 'LIKE', "%{$search}%");
                }
            }
            // $builder->where('first_name', 'LIKE', "%{$search}%");
            // $builder->orWhere('last_name', 'LIKE', "%{$search}%");
            // $builder->orWhere('email', 'LIKE', "%{$search}%");
            // $builder->orWhere('company', 'LIKE', function($query) use ($search){
            //     $query->where('name','LIKE', "%{$search}%");
            // });
        }
        return $builder;
    }
}
```

Add a variable that will be overloaded with the class

/app/Scopes/ContactSearchScope.php

```
<?php
namespace App\Scopes;
use App\Scopes\SearchScope;

class ContactSearchScope extends SearchScope
{
    protected $searchColumns = ['first_name', 'last_name', 'email', 'company.name'];
}
```

Create a class that extends SearchScope
that will overload the variable

/app/Models/Contact.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use App\Scopes\FilerScope;
class Contact extends Model
{
    use HasFactory;
    protected $fillable = ['first_name', 'last_name', 'address', 'email', 'phone', 'company_id'];
    public function company()
    {
        return $this->belongsTo(Company::class);
    }
    public function scopeLatestFirst($query)
    {
        return $query->orderBy('id', 'desc');
    }
    protected static function booted()
    {
        static::addGlobalScope(new \App\Scopes\FilerScope);
        static::addGlobalScope(new \App\Scopes>ContactSearchScope);
    }
}
```

Add the class in the model as a global scope

007 Another approach to make our Global Scopes reusable

Thursday, September 15, 2022 7:23 PM

1. Assign the FilterScope in the model as a global scope
2. Define the filter columns in filterColumns property

Step 1

/app/Scopes/FilterScope.php

```
<?php
namespace App\Scopes;
use Illuminate\Database\Eloquent\Scope;
use Illuminate\Database\Eloquent\Builder;
use Illuminate\Database\Eloquent\Model;
class FilterScope implements Scope
{
    protected $filterColumns = [];
    public function apply(Builder $builder, Model $model)
    {
        $columns = property_exists($model, 'filterColumns') ? $model->filterColumns : $this->filterColumns;
        // dd($columns);
        foreach ($columns as $key => $column) {
            if ($value = request($column)) {
                $builder->where($column, $value);
            }
        }
        return $builder;
    }
}
```

Step 2

/app/Models/Contact.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use App\Scopes\FilerScope;
class Contact extends Model
{
    use HasFactory;
    protected $fillable = ['first_name', 'last_name', 'address', 'email', 'phone', 'company_id'];
    public $filterColumns = ['company_id'];
    public function company()
    {
        return $this->belongsTo(Company::class);
    }
    public function scopeLatestFirst($query)
    {
        return $query->orderBy('id', 'desc');
    }
    protected static function booted()
    {

```

```
static::addGlobalScope(new \App\Scopes\FilterScope);  
static::addGlobalScope(new \App\Scopes>ContactSearchScope);  
}
```

001 Authentication Scaffolding in Laravel 6.x or above

Friday, September 16, 2022 8:17 PM

Laravel includes authentication, login, logout, email verification, registration ...

Above Laravel 7+ u need laravel/ui package

Composer require laravel/ui [--dev] --dev install for development environment

Php artisan ui:auth <type> creates views, controllers for login and home

```
/app/Http/Controllers/Auth/ConfirmPasswordController.php
/app/Http/Controllers/Auth/ForgetPasswordController.php
/app/Http/Controllers/Auth/LoginController.php
/app/Http/Controllers/Auth/RegisterController.php
/app/Http/Controllers/Auth/ResetPasswordController.php
/app/Http/Controllers/Auth/VerificationController.php
/app/Http/Controllers/HomeController.php - Dashboard Controller
/resources/views/auth/passwords/confirm.blade.php
/resources/views/auth/passwords/email.blade.php
/resources/views/auth/passwords/reset.blade.php
/resources/views/auth/login.blade.php
/resources/views/auth/register.blade.php
/resources/views/auth/verify.blade.php
/resources/views/layouts/app.blade.php
/resources/views/home.blade.php - Dashboard view
```

And

/routes/web.php

added

```
Auth::routes();
```

```
Route::get('/home', [App\Http\Controllers\HomeController::class, 'index'])->name('home');
```

002 Control visibility of Navbar links

Friday, September 16, 2022 8:48 PM

We can use Laravel Directives inside views to show and hide codes

`@auth`
`@endauth` Equivalent to if user authenticated

`@gust`
`@else` If user not authenticated
`@endgust`

```
{{ auth()->user()->name }}
```


003 Retrieving The Authenticated User

Saturday, September 17, 2022 2:47 PM

In the previous video you have seen how to retrieve the authenticated user by using auth global helper function. Beside this helper Laravel also provide some alternative ways like so:

- Using **Auth** Facade
- Using **Request** instance or **request** helper

Using Auth Facade

You can retrieve the current user's instance using this syntax:

```
use Illuminate\Support\Facades\Auth;
```

```
$user = Auth::user(); // this is equivalent with auth()->user()
```

If you want to get only the authenticated user's id you can use this syntax:

```
use Illuminate\Support\Facades\Auth;
```

```
$user = Auth::id(); // this is equivalent with auth()->id()
```

You can also determine if the user already logged in by using check() method. This method will return true if the user authenticated. Otherwise it will return false.

```
use Illuminate\Support\Facades\Auth;
```

```
if (Auth::check()) {
```

```
    // The user is logged in.
```

```
} else {
```

```
    // The user is not logged in.
```

```
}
```

Using Request Instance

You can retrieve the current user's instance via Request instance like this.

```
use Illuminate\Http\Request;
```

```
public function store(Request $request)
```

```
{
```

```
    $user = $request->user();
```

```
}
```

You can also retrieve the current user's instance via request global helper function like this.

```
public function store()
```

```
{
```

```
    $user = request()->user();
```

```
}
```

004 Custom Authentication Redirection

Friday, September 16, 2022 9:55 PM

U can change </app/Http/Controllers/Auth/LoginController.php>

For login redirect

```
protected $redirectTo = RouteServiceProvider::HOME;
```

And for register redirect

```
protected $redirectTo = RouteServiceProvider::HOME;
```

But u can chage for both by changing the HOME

HOME variable Which is found </app/Providers/RouteServiceProvider.php>

```
*/  
public const HOME = '/dashboard';
```

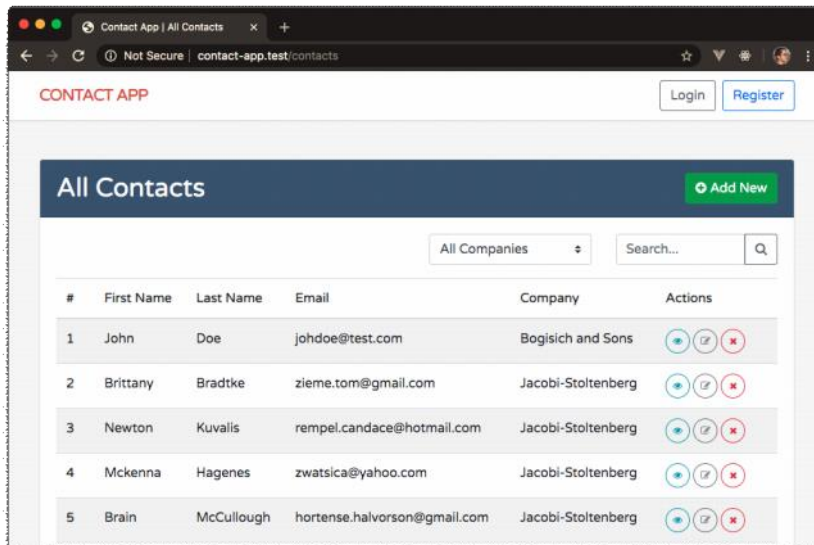
And override logout inside </app/Http/Controllers/Auth/LoginController.php>

```
protected function loggedOut(Request $request)  
{  
    return redirect('/login');  
}
```

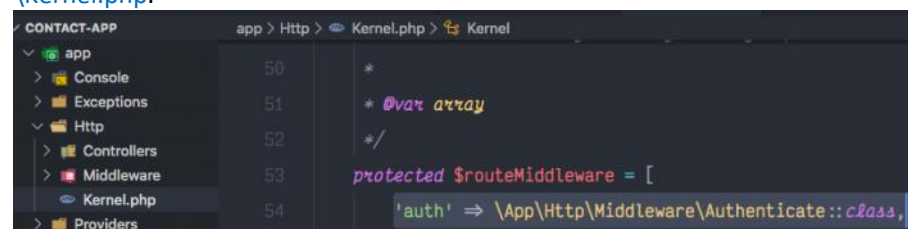
005 Protecting Routes

Saturday, September 17, 2022 2:53 PM

In this lesson we will see how to protect our routes from being access by unauthenticated user. We have integrated Authentication in our application. But any user can still access the contacts page without login.



So, in order to protect that route we can use auth middleware which is defined at [Illuminate\Auth\Middleware\Authenticate](#). This middleware is already registered in the [Kernel.php](#) file. You can find it [routeMiddleware](#) property inside [app\Http\Kernel.php](#).



To protect your routes you can follow one of these two options:

1. Attach the auth middleware in your route definition.
2. Call the auth middleware from your controller's constructor.

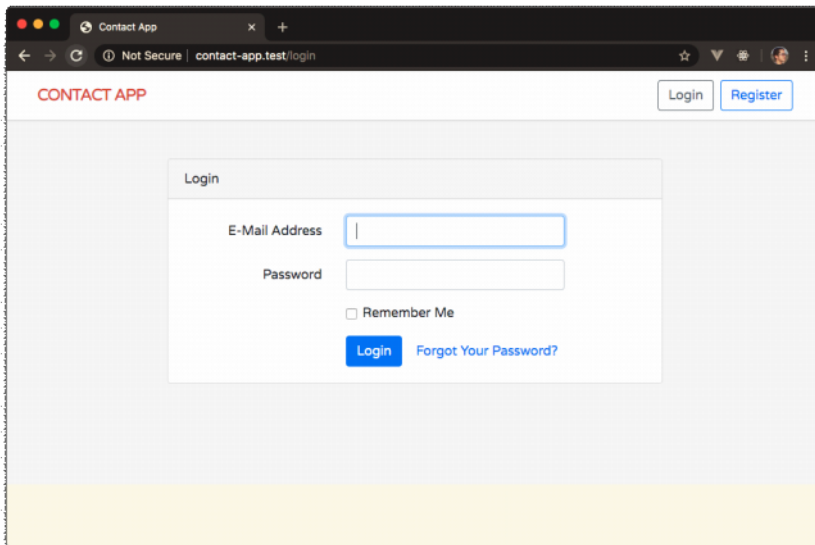
1. Attaching the auth middleware in routes definition

To attach the auth middleware you can add in your route definition with middleware and pass the auth middleware.

In [web.php](#) let's firstly protect the [contacts.index](#) with auth middleware like so:

```
Route::get('/contacts', [ContactController::class, 'index'])
    ->name('contacts.index')
    ->middleware('auth');
```

Now, if you're not signed in and try to access the **All Contacts** page. You'll be redirected to the login page.



You can do the similar thing to other contact routes to protect them from being accessed by unauthenticated user like so:

```
Route::post('/contacts', [ContactController::class, 'store'])
    ->name('contacts.store')
    ->middleware('auth');
Route::get('/contacts/create', [ContactController::class, 'create'])
    ->name('contacts.create')
    ->middleware('auth');
Route::get('/contacts/{id}', [ContactController::class, 'show'])
    ->name('contacts.show')
    ->middleware('auth');
Route::put('/contacts/{id}', [ContactController::class, 'update'])
    ->name('contacts.update')
    ->middleware('auth');
Route::delete('/contacts/{id}', [ContactController::class, 'destroy'])
    ->name('contacts.destroy')
    ->middleware('auth');
Route::get('/contacts/{id}/edit', [ContactController::class, 'edit'])
    ->name('contacts.edit')
    ->middleware('auth');
```

Although this way is valid, but here we find repetitive middleware calling in our route definition. We can make these much simpler by assigning the auth middleware in route group, then move our existing routes inside.

```
Route::middleware('auth')->group(function(){
    Route::get('/contacts', [ContactController::class, 'index'])->name('contacts.index');
    Route::post('/contacts', [ContactController::class, 'store'])->name('contacts.store');
    Route::get('/contacts/create', [ContactController::class, 'create'])->name('contacts.create');
    Route::get('/contacts/{id}', [ContactController::class, 'show'])->name('contacts.show');
    Route::get('/contacts/{id}/edit', [ContactController::class, 'edit'])->name('contacts.edit');
    Route::put('/contacts/{id}', [ContactController::class, 'update'])->name('contacts.update');
    Route::delete('/contacts/{id}', [ContactController::class, 'destroy'])->name('contacts.destroy');
});
```

2. Calling the auth middleware in controller's constructor

Before we call the auth middleware in our constructor's controller, make sure you're not call the middleware('auth') in your route definition.

Open the [ContactController](#). Then define a constructor, add the middleware call, then pass in the auth middleware.
class ContactController extends Controller

class **ContactController** extends **Controller**

```
{  
    public function __construct()  
    {  
        $this->middleware('auth');  
    }  
    // other methods definition  
    // ...  
}
```

By doing this way the auth middleware will get applied to all methods that defined in the controller. This because constructor will automatically called when you instantiate an object.

But you can utilize **except()** or **only()** method to apply the middleware on a certain method explicitly.

2.1. Using middleware only method

We can use middleware only method to *only* apply a certain middleware to the given methods. For example if you want to apply the auth middleware only on create, update and delete methods, you can do like this:

```
public function __construct()  
{  
    $this->middleware('auth')->only('create', 'update', 'destroy');  
}
```

Now if you see your routes in your terminal:

```
contact-app-l8 (27-authentication) x php artisan route:list --path=contacts
```

| Domain | Method | URI | Name | Action | Middleware |
|--------|----------|--------------------|------------------|--|------------|
| | GET HEAD | contacts | contacts.index | App\Http\Controllers>ContactController@index | web |
| | POST | contacts | contacts.store | App\Http\Controllers>ContactController@store | web |
| | GET HEAD | contacts/create | contacts.create | App\Http\Controllers>ContactController@create | web |
| | | | | App\Http\Middleware\Authenticate | |
| | GET HEAD | contacts/{id} | contacts.show | App\Http\Controllers>ContactController@show | web |
| | PUT | contacts/{id} | contacts.update | App\Http\Controllers>ContactController@update | web |
| | | | | App\Http\Middleware\Authenticate | |
| | DELETE | contacts/{id} | contacts.destroy | App\Http\Controllers>ContactController@destroy | web |
| | | | | App\Http\Middleware\Authenticate | |
| | GET HEAD | contacts/{id}/edit | contacts.edit | App\Http\Controllers>ContactController@edit | web |

The auth middleware only applied on contacts.create, contacts.update and contacts.destroy routes.

2.2. Using middleware except method

We can use middleware except method to exclude the given methods from being applied by a certain middleware. If you want to exclude the auth middleware on let's say index and show methods you can do like so:

```
public function __construct()  
{  
    $this->middleware('auth')->except('index', 'show');  
}
```

If you now see your routes in your terminal:

```
contact-app-l8 (27-authentication) x php artisan route:list --path=contacts
```

| Domain | Method | URI | Name | Action | Middleware |
|--------|----------|--------------------|------------------|--|------------|
| | GET HEAD | contacts | contacts.index | App\Http\Controllers>ContactController@index | web |
| | POST | contacts | contacts.store | App\Http\Controllers>ContactController@store | web |
| | GET HEAD | contacts/create | contacts.create | App\Http\Controllers>ContactController@create | web |
| | | | | App\Http\Middleware\Authenticate | |
| | GET HEAD | contacts/{id} | contacts.show | App\Http\Controllers>ContactController@show | web |
| | PUT | contacts/{id} | contacts.update | App\Http\Controllers>ContactController@update | web |
| | | | | App\Http\Middleware\Authenticate | |
| | DELETE | contacts/{id} | contacts.destroy | App\Http\Controllers>ContactController@destroy | web |
| | | | | App\Http\Middleware\Authenticate | |
| | GET HEAD | contacts/{id}/edit | contacts.edit | App\Http\Controllers>ContactController@edit | web |
| | | | | App\Http\Middleware\Authenticate | |

The auth middleware applied to all contacts.*, except **contacts.index** and **contacts.show** route.

So that's how you could protect your routes using auth middleware. You can apply it on the route definition or on the controller's constructor.

006 Password Reset

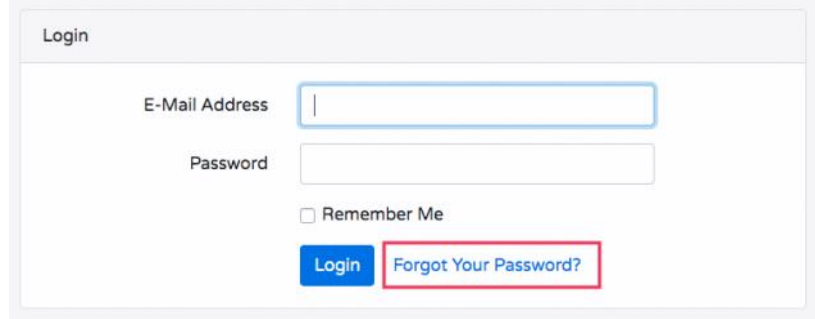
Saturday, September 17, 2022 3:45 PM

1. Introduction

In this lesson, we're going to learn the flow of password reset in Laravel authentication. There are a couple of actions that need to take place:

- You request a password reset
- You enter your email. If the email you entered is valid, a password reset link will be sent to your email.
- You Access the reset link
- If the link that you accessed is valid, you can enter your new password.

Just in case you forgot your password when you enter your credentials in the **Login** form, you can hit the **Forgot Your Password** link.

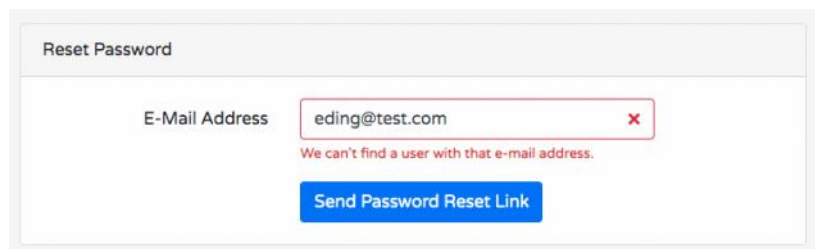


The screenshot shows a 'Login' form with the following elements:

- E-Mail Address**: A text input field.
- Password**: A text input field.
- ☐ **Remember Me**: A checkbox.
- Login**: A blue button.
- Forgot Your Password?**: A blue button with a red border.

If you hit that link it'll take you to the **Reset Password** form. In that form, you can request a reset by entering the email that you entered when registering a new user.

Once you hit the **Send Password Reset Link** button, under the hood it will find in the Users table the email that you provided. If the email you've entered did not found in the database, you'll get a validation error message like this.



The screenshot shows a 'Reset Password' form with the following elements:

- E-Mail Address**: A text input field containing 'eding@test.com' with a red error icon.
- We can't find a user with that e-mail address.**: A red validation error message.
- Send Password Reset Link**: A blue button.

But, if the email that you entered was valid (found in the database), you'll get Swift_TransportException error like this.



If you see the error more details, you'll realize that Laravel tried to send a message to your email. Since you didn't configure the email settings, that's why you got that error.

But if you see the password_resets table, you'll find a new record inserted.



The screenshot shows the 'password_resets' table with the following data:

| email | token | created_at |
|-------------------|---|---------------------|
| john.doe@test.com | \$2y\$10\$CBLWNHaLuXKcJXn8CCX8Fe5KT07Nd/khsmgX6UoZVpWxzeC9M4fDq | 2020-01-09 16:57:03 |

2. Fixing Swift_TransportException error

The simple way to fix that error is to use log instead of smtp. Let's open the .env file. Then change the **MAIL_MAILER** from smtp to log.

MAIL_MAILER=log

Also you need to adjust the **APP_NAME** to your project's url. This will make sure you that you'll get the proper password reset link on the sent email.

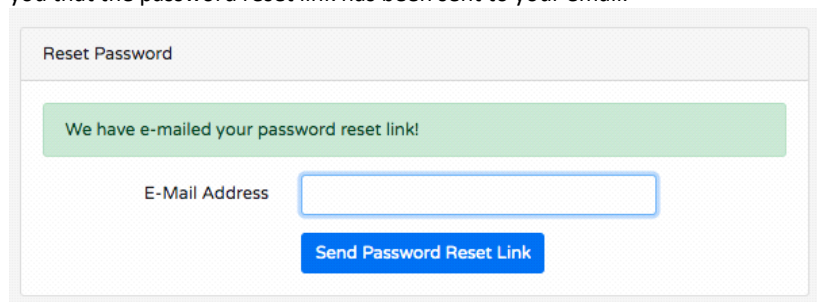
APP_URL=http://contact-app.test

If you're using php built-in server you need to restart the server in order to laravel take effect of those changes. Or you can also clear the

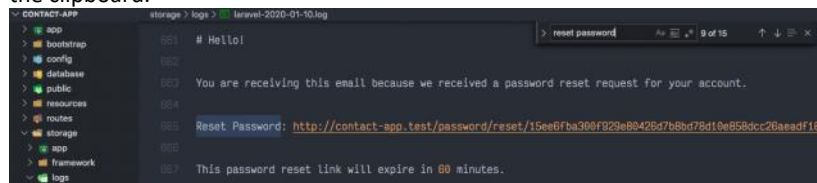
config cache by using this command:

`php artisan config:clear`

Now if go back to **Reset Password** form, enter your valid email then hit the **Send Password Reset Link** you will get a success message telling you that the password reset link has been sent to your email.



Ideally you will go to your inbox, open the email, then hit the password reset link to actually reset your password. But since we used log, what we need to do is to navigate to storage/logs folder. Then open the last .log file. You can then simply find the reset password link, then copy to the clipboard.



If you take a look at the link it basically contains a token (original token) and an email.

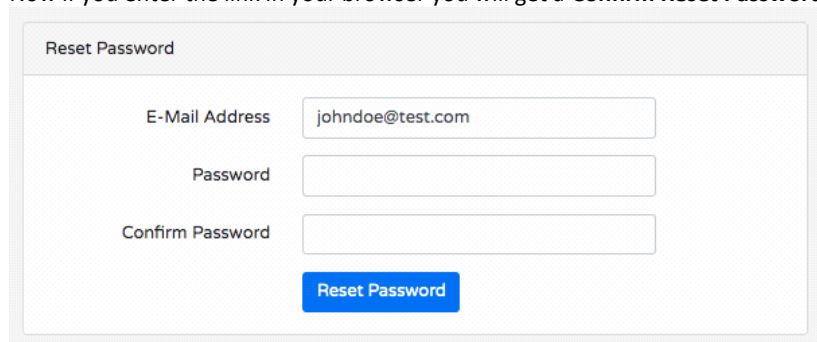
<http://contact-app.test/password/reset/15ee6fba300f929e80426d7b8bd78d10e858dcc26aeadf18b4da0cff14e6bae0?email=johndoe%40test.com>

This mechanism is almost similar when you login an account. You provided email and original password. Once submitted, Laravel will encrypt the original password into a hash. Then match the email and hashed password with database record.

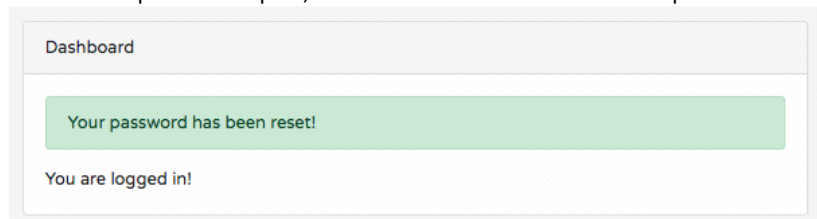
This way will ensure that only the right users can reset their password. Also the reset link only valid for 60 minutes. If for some reasons you want to increase or decrease the expire time, you can open [auth.php](#) file inside config folder. Then set the expire in password section with any number you prefer.

```
'passwords' => [  
  'users' => [  
    'provider' => 'users',  
    'table' => 'password_resets',  
    'expire' => 120,  
    'throttle' => 60,  
  ],  
,  
,  
],
```






Now if you enter the link in your browser you will get a **Confirm Reset Password** form like this.



In this form the email input will populated automatically with email from the query string. You can then enter new password in the password and confirm password inputs, then hit **Reset Password** button to proceed. Once it done you'll be taken to dashboard page.



If you take a look at password_resets table again, the record now gone.

| TABLES | | Search: <input type="text" value="email"/> | | |
|---|--|--|-------|------------|
|  companies | | email | token | created_at |
|  contacts | | | | |
|  failed_jobs | | | | |
|  migrations | | | | |
|  password_resets | | | | |

007 Email Verification

Saturday, September 17, 2022 8:08 PM

Since version 5.7 Laravel has introduced Email verification and Account activation out of the box. These features force registered users to activate their accounts before accessing certain routes by hitting the verification code that sent to their emails.

These feature is not active by default. To make it active 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=verification -c** you'll see three routes listed.

```
➔ contact-app-l8 (27-authentication) x php artisan route:list --name=verification -c
```

| Method | URI | Action |
|----------|--------------------------|---|
| POST | email/resend | App\Http\Controllers\Auth\VerificationController@resend |
| GET HEAD | email/verify | App\Http\Controllers\Auth\VerificationController@show |
| GET HEAD | email/verify/{id}/{hash} | App\Http\Controllers\Auth\VerificationController@verify |

Step 3 - Protect your route

If you open [app/Http/Kernel.php](#) then go to **routeMiddleware** property, you will find the verified middleware which is map to **EnsureEmailsVerified**.

```
protected $routeMiddleware = [
    // ...
    'verified' => \Illuminate\Auth\Middleware\EnsureEmailsVerified::class,
];
```

You can protect particular route(s) by using the middleware in [web.php](#) file like so:

```
Route::middleware(['auth', 'verified'])->group(function () {
    Route::get('/contacts', 'ContactController@index')->name('contacts.index');
    Route::post('/contacts', 'ContactController@store')->name('contacts.store');
    // ...
});
```

Or you can do that in the controller's constructor like this:

```
class ContactController extends Controller
{
    public function __construct()
    {
        $this->middleware(['auth', 'verified']);
    }
    // ...
}
```

Step 4 - Setup Email Credentials

In the previous lesson we've set the **MAIL_MAILER** to the log to catch the email that is going to be sent inside the *.log file. But for more realistic scenario you can set it back to smtp. By default Laravel use mailhog (formerly smtp.mailtrap.io) as the host address of the SMTP server.

In order to make it work you need to install the [mailhog](#) in your machine. However in this guide we'll be using [mailtrap](#).

During your development using **mailtrap** to capture your email is perfectly fine. Just go to mailtrap.io then register an account. Once you've registered you can choose your inbox, then go to **SMTP Settings**.

Home / Laravel Inbox

SMTP SettingsEmail AddressAuto ForwardManual Forv

Credentials

[Reset SMTP/POP3](#)

SMTP

Host: smtp.mailtrap.io

Port: 25 or 465 or 587 or 2525

Username: [REDACTED]

Password: [REDACTED]

Auth: PLAIN, LOGIN and CRAM-MD5

TLS: Optional (STARTTLS on all ports)

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
```

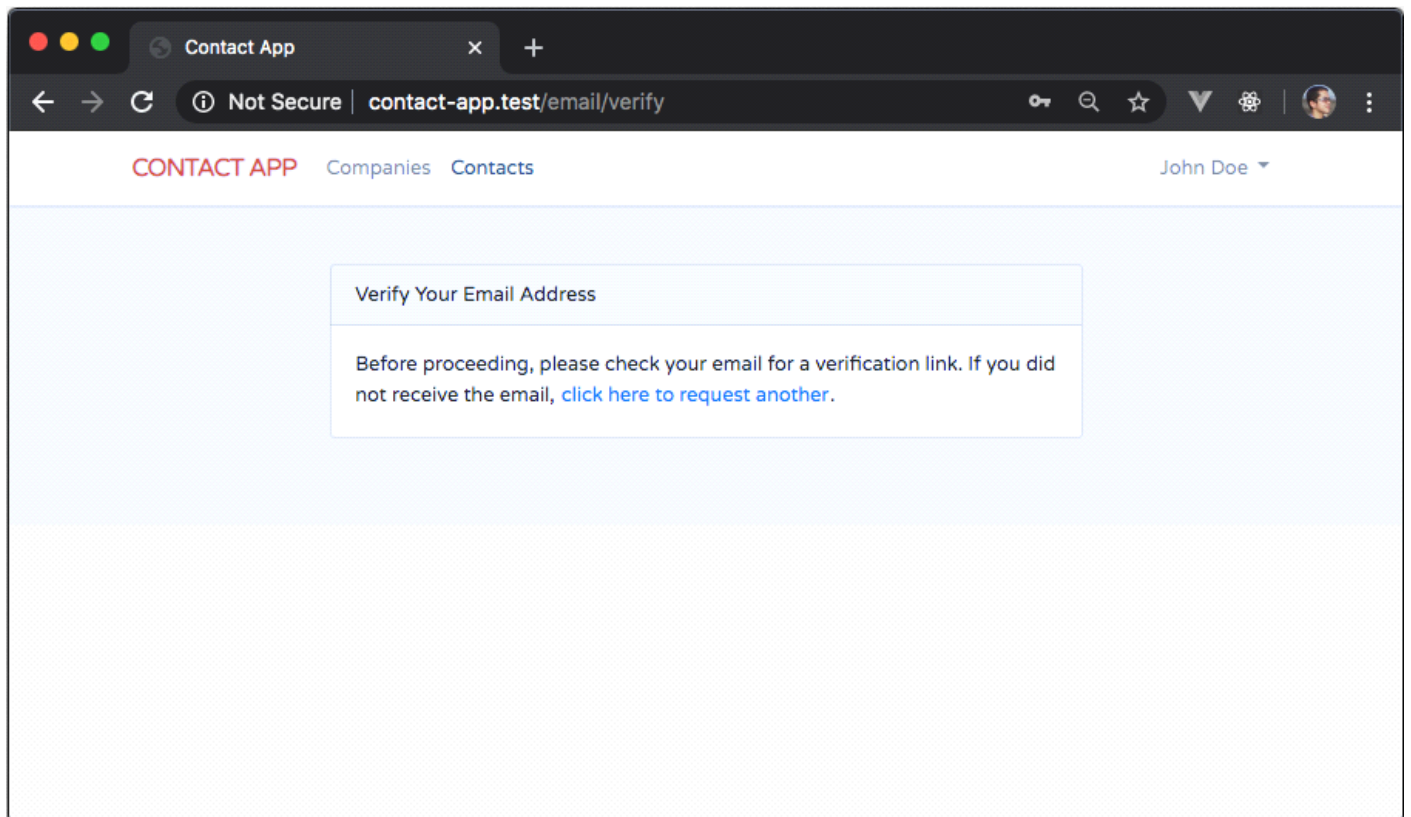
```
MAIL_PASSWORD=your-password-email
```

```
MAIL_ENCRYPTION=null
```

Save all changes and don't forget to restart your server if you're using php built-in server to apply the changes.

Step 5 - Test Email Verification functionality

You can test the Email Verification functionality by accessing the **All Contacts** page. Since you applied the verified middleware you'll be redirected to **Verify Your Email Address** page.



Under the hood Laravel authentication will check the `email_verified_at` of the current user in the users table. If it was empty it means you have not verified your email.

| | | | | |
|-----------------|--|--|--|--|
| TABLES | | | | |
| companies | | | | |
| contacts | | | | |
| failed_jobs | | | | |
| migrations | | | | |
| password_resets | | | | |
| users | | | | |

| Search: id | | | | |
|------------|----------|------------------|-------------------|--|
| id | name | email | email_verified_at | |
| 1 | John Doe | johndoe@test.com | NULL | |

You can hit the [click here to request another](#) link to send a verification link to your email.

Verify Your Email Address

A fresh verification link has been sent to your email address.

Before proceeding, please check your email for a verification link. If you did not receive the email, [click here to request another](#).

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.

Contact App

Mailtrap - Safe Email Testing

mailtrap.io/inboxes/671744/messages/1536368865

mailtrap

Shared Inboxes Billing Upgrade

masaruedo@yahoo.com

Start with...

Home / Laravel Inbox / Verify Email Address

Verify Email Address

To: <johndoe@test.com> a few seconds ago

Verify Email Address

2020-01-10 10:18 (a few seconds ago) Size: 13 KB

From: Example <hello@example.com>

To: <johndoe@test.com>

Show Info

HTML HTML Source Text Raw Analysis Check HTML SMTP info

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.

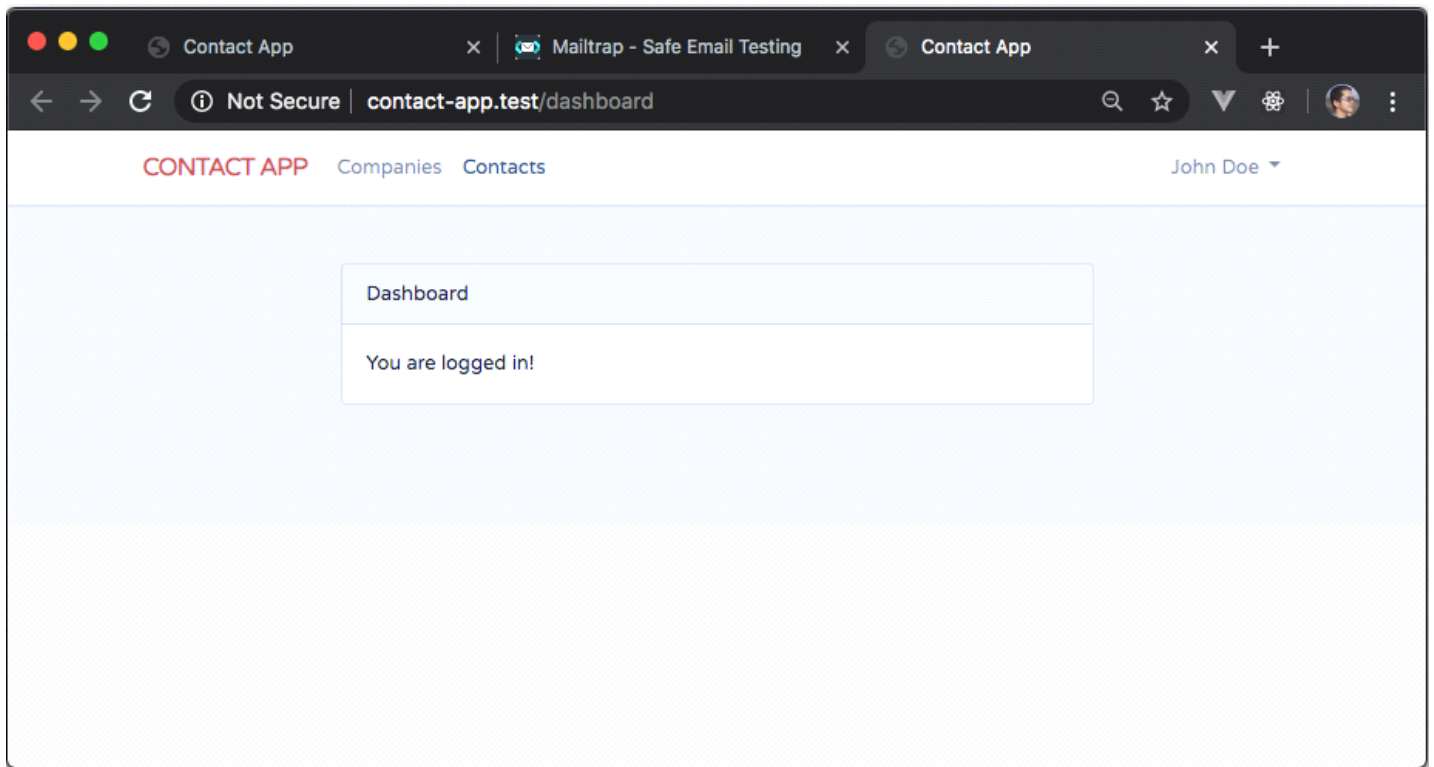
Regards,

Click here to upgrade your limits

© Copyright Railware Products, Inc. All rights reserved.

Once you hit that link your account will be verified and you'll be taken to the dashboard page.

08 - Authentication Page 51



Also if you take a look at users table, the email_verified_at column now has been set with date and time where you verified your email.

TABLES

companies

contacts

failed_jobs

migrations

password_resets

users

Search:

=

008 Linking users table to companies and contacts table

Saturday, September 17, 2022 9:01 PM

Create a migration file

→ `php artisan make:migration add_user_id_to_contacts_table`

`/database/migrations/2022_09_17_181126_add_user_id_to_contacts_table.php`

```
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;
class AddUserIdToContactsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::table('contacts', function (Blueprint $table) {
            $table->unsignedBigInteger('user_id')->nullable();
            $table->foreign('user_id')->references('id')->on('users')->onDelete('cascade');
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::table('contacts', function (Blueprint $table) {
            $table->dropColumn('user_id');
        });
    }
}
```

Make the migration

→ `php artisan migrate` -- safest way without lossing data

If u need to reset all tables

→ `php artisan migrate:refresh`

009 User, Company and Contact relationship models

Tuesday, September 20, 2022 1:27 PM

/app/Models/User.php

```
public function contacts()
{
    return $this->hasMany(Contact::class);
}

public function compaies()
{
    return $this->hasMany(Company::class);
}
```

**** add factory**
User::factory() for both company and contact

/app/Models/Contact.php

/app/Models/Company.php

```
public function user()
{
    return $this->belongsTo(User::class);
}
```

010 Updating our factory relationships (Laravel 8

Tuesday, September 20, 2022 1:52 PM

For Laravel 9

/database/seeder/DatabaseSeeder.php

```
$user = User::factory()
->count(5)
->has(Company::factory()->count(3))
->has(Contact::factory()->count(3))
->create();
```

For Laravel 8

/database/Seeders/DatabaseSeeder.php

```
$users = factory(User::class, 5)->create();
$users->each(function ($user) {
    $companies = $user->companies()->saveMany(
        factory(Company::class, rand(2, 5))->make()
    );

    $companies->each(function ($company) use ($user) {
        $company->contacts()->saveMany(
            factory(Contact::class, rand(5, 10))
            ->make()
        );
        $company->map(function ($contact) use ($user) {
            $contact->user_id = $user->id;
            return $contact;
        })
    });
});
```

011 Updating our factory relationships (Laravel 8+)

Tuesday, September 20, 2022 4:06 PM

1. Introduction

If you open up `DatabaseSeeder.php` you'll see this line of code in run method:

```
Company::factory()->hasContacts(5)->count(50)->create();
```

If you remember, this code will create 50 companies, and for each generated company it will generate 5 contacts.

Now since we have added `user_id` column in both companies and contacts tables to link them to users table, we need to make a bit change to our factory relationships.

In this lesson I'm going to show you *two options* on how to update factory relationships.

2. 1st option: Simple option

First, before we generate companies and contacts table with Factory, we generate some users, let's say 5 users.

```
User::factory()->count(5)->create();
```

```
Company::factory()->hasContacts(5)->count(50)->create();
```

Second, let's open `CompanyFactory`. In definition method we add in the returned array a new item. The array key is `user_id`, while the value is contain id of the user that taken from User model randomly.

Don't forget to import the User model namespace.

database/factories/CompanyFactory.php

public function definition()

```
{
    return [
        // ...
        'user_id' => User::pluck('id')->random()
    ];
}
```

Last, let's open `ContactFactory`. And we do almost the same way with `CompanyFactory`. Except, the value of `user_id` is not taken directly from User model. Why? Because if you remember contacts table also has relationship to companies table. We need to make both tables to have the same user id.

To do that we can randomly choose a company id, using that id to find the model instance, and then get its user id.

```
Company::pluck('id')->random()
```

```
Company::find(Company::pluck('id')->random())
```

```
Company::find(Company::pluck('id')->random())->user_id
```

Here how we implement that in `ContactFactory`.

database/factories/ContactFactory.php

public function definition()

```
{
    return [
        // ...
        'user_id' => Company::find(Company::pluck('id')->random())->user_id
    ];
}
```

An alternative way is to get all companies, take one item randomly, and get its user id. It's much simpler that the code before.

```
Company::all()->random()->user_id
```

Go to terminal and run this command.

```
php artisan migrate:fresh --seed
```

If you now see your database, you'll have 5 users, 50 companies with random user id, and then 250

contacts.

| TABLES | Search: id | Filter | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|-------------------|--------------------------------|--------------------------------------|------------|---------|---------------------|---------------------|------------|------------|---|-------|---------|----------------|------------------------|-----------------------------------|---|---|---------------------|---------------------|---|--------|----------|--------------|-------------------------|--------------------------------|---|---|---------------------|---------------------|---|--------|----------|----------------|-------------------|-----------------------------------|---|---|---------------------|---------------------|---|-------|-----------|--------------|--------------------|-------------------------------------|---|---|---------------------|---------------------|---|-----|-----------|--------------|-------------------|----------------------------------|---|---|---------------------|---------------------|---|------|---------|----------------|-------------------|-----------------------------------|---|---|---------------------|---------------------|---|--------|----------|--------------|--------------------|------------------------------------|---|---|---------------------|---------------------|---|------|------|-----------------|-------------------|-------------------------------------|---|---|---------------------|---------------------|---|------|--------|----------------|-------------------|-----------------------------------|---|---|---------------------|---------------------|----|-----------|------|----------------|--------------------|-------------------------------------|---|---|---------------------|---------------------|----|------|----------|----------------|--------------------|-------------------------------------|---|---|---------------------|---------------------|----|-------|-------------|--------------|------------------------------|------------------------------------|---|---|---------------------|---------------------|----|-------|---------|-----------------|---------------------|------------------------------------|---|---|---------------------|---------------------|----|-----|-------|--------------|--------------------------------|--------------------------------------|---|---|---------------------|---------------------|----|-------|--------|--------------|------------------------|-------------------------------------|---|---|---------------------|---------------------|----|--------|----------|----------------|---------------------------|-----------------------------------|---|---|---------------------|---------------------|----|---------|-------|-------------------|-------------------------|-------------------------------------|---|---|---------------------|---------------------|----|--------|---------|----------------|----------------------------|------------------------------------|---|---|---------------------|---------------------|----|--------|----------|----------------|----------------------|------------------------------------|---|---|---------------------|---------------------|----|-------|---------|-----------------|---------------------------|---------------------------------|---|---|---------------------|---------------------|----|-------|---------|-------------------|-----------------------|---------------------------------|---|---|---------------------|---------------------|----|--------|----------|-------------------|-------------------------|----------------------------------|---|---|---------------------|---------------------|----|---------|----------|--------------|--------------------|------------------------------------|---|---|---------------------|---------------------|----|---------|---------|--------------|---------------------------|--------------------------------------|---|---|---------------------|---------------------|----|---------|---------|--------------|-------------------|--------------------------------------|---|---|---------------------|---------------------|----|---------|-------|----------------|--------------------------------|-------------------------------------|---|---|---------------------|---------------------|----|---------|-------|-----------------|------------------|------------------------------------|---|---|---------------------|---------------------|----|-------|-------|----------------|----------------------|------------------------------------|---|---|---------------------|---------------------|-----------------------------------|
| <div><div>companies</div><div>contacts</div><div>failed_jobs</div><div>migrations</div><div>password_resets</div><div>personal_access_tokens</div><div>users</div></div> | <table><tr><th>id</th><th>first_name</th><th>last_name</th><th>phone</th><th>email</th><th>address</th><th>company_id</th><th>user_id</th><th>created_at</th><th>updated_at</th></tr><tr><td>1</td><td>Salma</td><td>Reichel</td><td>(530) 359-8689</td><td>main.clare@hotmail.com</td><td>4802 Hilbert Shore Lake Shanty...</td><td>1</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>2</td><td>Brasna</td><td>Weissnat</td><td>682-790-6664</td><td>lula.keeling@paucok.net</td><td>199 Ransom Roads New Rayten...</td><td>1</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>3</td><td>Cullen</td><td>Dietrich</td><td>1-774-812-0847</td><td>orn.oie@yahoo.com</td><td>62852 Bode Stravenue South Gay...</td><td>1</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>4</td><td>Gregg</td><td>Schneider</td><td>352-804-7268</td><td>nbayer@hotmail.com</td><td>5339 Marlon Cliffs Apt. 202 Dian...</td><td>1</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>5</td><td>Nia</td><td>Wilderman</td><td>331-415-4024</td><td>ikoopp@torphy.net</td><td>34831 Homenick Cliff Edamouth...</td><td>1</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>6</td><td>Avis</td><td>Kautzer</td><td>1-458-916-2524</td><td>shaun1@ulrich.com</td><td>428 Amara Greens Serenityburgh...</td><td>2</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>7</td><td>Lesley</td><td>Schmeler</td><td>785-661-2152</td><td>maia72@hotmail.com</td><td>9624 Erika Junction Roxaneshire...</td><td>2</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>8</td><td>Nyah</td><td>Roob</td><td>+1-862-635-4937</td><td>lherzog@gmail.com</td><td>430 Emil Divide Apt. 375 West Sa...</td><td>2</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>9</td><td>Arla</td><td>Murphy</td><td>(534) 213-8700</td><td>lbenier@fsher.net</td><td>4403 Rhoda Rest East Sarahaven...</td><td>2</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>10</td><td>Henderson</td><td>Rice</td><td>1-757-755-5574</td><td>bzieme@nicolas.com</td><td>229 Tristan Grove Jakobshire, TX...</td><td>2</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>11</td><td>Gage</td><td>Gottlieb</td><td>(813) 435-8326</td><td>ilockman@yahoo.com</td><td>49819 Berge Island Apt. 450 Lake...</td><td>3</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>12</td><td>Reece</td><td>Oberbrunner</td><td>239-568-7379</td><td>heathcote.demarcus@gmail.com</td><td>228 Bruen Crescent Schoenton, I...</td><td>3</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>13</td><td>Steve</td><td>Hagenes</td><td>+1-938-981-9361</td><td>kstueber@schoen.com</td><td>661 Stiedemann Square Jeddediah...</td><td>3</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>14</td><td>Una</td><td>Pagac</td><td>804-353-2637</td><td>hortsense.micel@kovic@raun.biz</td><td>918 Maci Trail Apt. 603 Tieton, C...</td><td>3</td><td>3</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>15</td><td>Devan</td><td>Larkin</td><td>650.588.4553</td><td>conn.dylan@gerhold.com</td><td>547 Anne Forest Suite 356 Port M...</td><td>3</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>16</td><td>August</td><td>Mitchell</td><td>(520) 797-0146</td><td>shanahan.alek@hotmail.com</td><td>14466 Robel Neck Apt. 701 Schm...</td><td>4</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>17</td><td>Domingo</td><td>Fadel</td><td>+1 (856) 290-5312</td><td>pascale.boyer@yahoo.com</td><td>88504 Janick Knolls East Johnnys...</td><td>4</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>18</td><td>Ruthie</td><td>Fritsch</td><td>(253) 257-5402</td><td>wiegand.lemuel@hotmail.com</td><td>331 Chris Lock Apt. 151 New Noe...</td><td>4</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>19</td><td>Hudson</td><td>Kovackec</td><td>(718) 869-0757</td><td>orin.nolan@gmail.com</td><td>91460 Okuneva Plains Suite 6121...</td><td>4</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>20</td><td>Keyon</td><td>Gerhold</td><td>+1-424-552-2902</td><td>adams.elinore@hotmail.com</td><td>154 Darien Manor Travenburgh...</td><td>4</td><td>3</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>21</td><td>Loyal</td><td>Leffler</td><td>+1 (801) 734-0164</td><td>adelfo36@hartmann.com</td><td>44503 Pasquale Square Suite 192</td><td>5</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>22</td><td>Sharna</td><td>Lubowitz</td><td>+1 (479) 515-8886</td><td>lura.anderson@yahoo.com</td><td>3655 Gutmann Lakes North Myrt...</td><td>5</td><td>5</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>23</td><td>Yasmeen</td><td>Schaefer</td><td>801.239.2673</td><td>rlfisher@kirin.biz</td><td>778 Koss Forest Apt. 619 New Cl...</td><td>5</td><td>5</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>24</td><td>Arnaldo</td><td>Weimann</td><td>762.746.0240</td><td>nikolaus.verda@jacobi.com</td><td>315 Matilde Cove Jastfurt, KY 170...</td><td>5</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 03:58:37</td></tr><tr><td>25</td><td>Jowanny</td><td>Farrell</td><td>480.575.3303</td><td>dooley@howell.com</td><td>58214 Blaze Ville Port Easter, WY...</td><td>5</td><td>4</td><td>2022-01-10 03:58:37</td><td>2022-01-10 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03:58:37 | 22 | Sharna | Lubowitz | +1 (479) 515-8886 | lura.anderson@yahoo.com | 3655 Gutmann Lakes North Myrt... | 5 | 5 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 23 | Yasmeen | Schaefer | 801.239.2673 | rlfisher@kirin.biz | 778 Koss Forest Apt. 619 New Cl... | 5 | 5 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 24 | Arnaldo | Weimann | 762.746.0240 | nikolaus.verda@jacobi.com | 315 Matilde Cove Jastfurt, KY 170... | 5 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 25 | Jowanny | Farrell | 480.575.3303 | dooley@howell.com | 58214 Blaze Ville Port Easter, WY... | 5 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 26 | Allison | Bosco | (361) 645-1201 | pfannerstill.tyrique@rempe.com | 47462 Upton Village Suite 672 Ea... | 6 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 27 | Jackson | Mayer | +1-930-884-5774 | eric46@gmail.com | 419 Casandra Neck Jakemside, CT... | 6 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | 28 | Sadie | Yundt | 1-727-472-0479 | lawina73@hotmail.com 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| id | first_name | last_name | phone | email | address | company_id | user_id | created_at | updated_at | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5 | Nia | Wilderman | 331-415-4024 | ikoopp@torphy.net | 34831 Homenick Cliff Edamouth... | 1 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Avis | Kautzer | 1-458-916-2524 | shaun1@ulrich.com | 428 Amara Greens Serenityburgh... | 2 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Lesley | Schmeler | 785-661-2152 | maia72@hotmail.com | 9624 Erika Junction Roxaneshire... | 2 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Nyah | Roob | +1-862-635-4937 | lherzog@gmail.com | 430 Emil Divide Apt. 375 West Sa... | 2 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Arla | Murphy | (534) 213-8700 | lbenier@fsher.net | 4403 Rhoda Rest East Sarahaven... | 2 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Henderson | Rice | 1-757-755-5574 | bzieme@nicolas.com | 229 Tristan Grove Jakobshire, TX... | 2 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Gage | Gottlieb | (813) 435-8326 | ilockman@yahoo.com | 49819 Berge Island Apt. 450 Lake... | 3 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Reece | Oberbrunner | 239-568-7379 | heathcote.demarcus@gmail.com | 228 Bruen Crescent Schoenton, I... | 3 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Steve | Hagenes | +1-938-981-9361 | kstueber@schoen.com | 661 Stiedemann Square Jeddediah... | 3 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Una | Pagac | 804-353-2637 | hortsense.micel@kovic@raun.biz | 918 Maci Trail Apt. 603 Tieton, C... | 3 | 3 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Devan | Larkin | 650.588.4553 | conn.dylan@gerhold.com | 547 Anne Forest Suite 356 Port M... | 3 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | August | Mitchell | (520) 797-0146 | shanahan.alek@hotmail.com | 14466 Robel Neck Apt. 701 Schm... | 4 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Domingo | Fadel | +1 (856) 290-5312 | pascale.boyer@yahoo.com | 88504 Janick Knolls East Johnnys... | 4 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Ruthie | Fritsch | (253) 257-5402 | wiegand.lemuel@hotmail.com | 331 Chris Lock Apt. 151 New Noe... | 4 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Hudson | Kovackec | (718) 869-0757 | orin.nolan@gmail.com | 91460 Okuneva Plains Suite 6121... | 4 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Keyon | Gerhold | +1-424-552-2902 | adams.elinore@hotmail.com | 154 Darien Manor Travenburgh... | 4 | 3 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | Loyal | Leffler | +1 (801) 734-0164 | adelfo36@hartmann.com | 44503 Pasquale Square Suite 192 | 5 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Sharna | Lubowitz | +1 (479) 515-8886 | lura.anderson@yahoo.com | 3655 Gutmann Lakes North Myrt... | 5 | 5 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | Yasmeen | Schaefer | 801.239.2673 | rlfisher@kirin.biz | 778 Koss Forest Apt. 619 New Cl... | 5 | 5 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Arnaldo | Weimann | 762.746.0240 | nikolaus.verda@jacobi.com | 315 Matilde Cove Jastfurt, KY 170... | 5 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Jowanny | Farrell | 480.575.3303 | dooley@howell.com | 58214 Blaze Ville Port Easter, WY... | 5 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Allison | Bosco | (361) 645-1201 | pfannerstill.tyrique@rempe.com | 47462 Upton Village Suite 672 Ea... | 6 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | Jackson | Mayer | +1-930-884-5774 | eric46@gmail.com | 419 Casandra Neck Jakemside, CT... | 6 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Sadie | Yundt | 1-727-472-0479 | lawina73@hotmail.com | 9748 Clifton Roads East Rudolph... | 6 | 4 | 2022-01-10 03:58:37 | 2022-01-10 03:58:37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3. 2nd option: Advance

First, like the first option, before we generate companies and contacts table with Factory, we generate some users, we'll create 5 users in this case. Then we loop through each user instance using each method, and pass a function.

```
User::factory()->count(5)->create(function ($user) {
```

```
});
```

Second, we move the Compan::factory code into the function. We also change the number of companies that will be generated from 50 to 10. However it will produce the same result: $5 \times 10 = 50$.

```
User::factory()->count(5)->create(function ($user) {  
    Company::factory()->hasContacts(5)->count(10)->create();  
});
```

Third, change hasContacts magic method to has method, and pass the Contact::factory in.

```
User::factory()->count(5)->create()->each(function ($user) {  
    Company::factory()->has(  
        Contact::factory()->count(5)  
    )  
    ->count(10)->create();  
});
```

Fourth, specify user_id in company model creation by specifying an array contains user_id. We can get the value from \$user instance.

```
User::factory()->count(5)->create()->each(function ($user) {  
    Company::factory()->has(  
        Contact::factory()->count(5)  
    )  
    ->count(10)->create([  
        'user_id' => $user->id  
    ]);  
});
```

Last, we need to pass user_id to contact model creation. Since we're not call create method we cannot do the same way with the previous step. As alternative we can use [factory state](#) which return an array contains user_id. It's value is taken from the company instance.

```
User::factory()->count(5)->create()->each(function ($user) {  
    Company::factory()->has(  
        Contact::factory()->count(5)->state(function ($attributes, Company $company) {  
            return ['user_id' => $company->user_id];  
        })  
    )  
    ->count(10)->create([
```

```
'user_id' => $user->id
});
});
```

That's it, we don't need to touch CompanyFactory, ContactFactory or other files. Go to terminal and run this migrate & seed command.

php artisan migrate:fresh --seed

If you now see your database, you'll have 5 users, 50 companies with random user id, and then 250 contacts. You'll see in first 50 rows have user_id 1, next 50 rows have user_id 2, and so on.

| TABLES | Search | id | Filter |
|------------------------|------------|------------|------------|
| companies | first_name | last_name | phone |
| contacts | email | address | company_id |
| failed_jobs | user_id | created_at | updated_at |
| migrations | | | |
| password_resets | | | |
| personal_access_tokens | | | |
| users | | | |
| TABLE INFORMATION | | | |
| created: 10/01/22 | | | |
| updated: 10/01/22 | | | |
| engine: InnoDB | | | |
| rows: 250 | | | |
| size: 80.0 KiB | | | |
| encoding: utf8mb4 | | | |
| auto_increment: 251 | | | |

| id | first_name | last_name | phone | email | address | company_id | user_id | created_at | updated_at |
|----|------------|-------------|-------------------|-------------------------------|---------------------------------------|------------|---------|---------------------|------------|
| 1 | Efren | Ebert | +1 (409) 326-6260 | benton.gerhold@considine.biz | 1318 Predovic Roads 'Adanview... | 1 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 2 | Skiya | Kassulka | (580) 475-2480 | sjohnston@yahoo.com | 3310 Gilberto Common Suite 194 | 1 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 3 | Lillie | Kuhic | 310-440-2590 | zreynolds@fahey.com | 109 Kohler Canyon Suite 129 'Ami... | 1 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 4 | Chester | Gottlieb | (513) 473-1996 | mclgynn.valle@medhurst.com | 67669 Heathcote Isle Apt. 181 'Ne... | 1 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 5 | Oia | Schiller | 470.883.8067 | drake38@sporer.org | 586 Hirthe Ramp 'North Davon, P... | 1 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 6 | Major | Smitham | 484-494-9052 | hama8@yahoo.com | 82479 Kosey Passage Apt. 020 'Al... | 2 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 7 | Cristian | Romaguera | +1-760-789-5175 | adam31@hotmail.com | 60922 Merl Forges Suite 550 'Nad... | 2 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 8 | Assunta | Bayer | 501-778-6032 | erichie@yahoo.com | 49450 Douglas Fields 'South Gadr... | 2 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 9 | Amanda | Corkery | +1-678-314-9276 | thea.lockman@mcclure.com | 9332 Bosce Pass Suite 158 'Oralm... | 2 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 10 | Esteban | Durgan | +1-402-320-4049 | kovacek.joelle@gmail.com | 184 Walter Terrace Apt. 020 'Emm... | 2 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 11 | Rubie | Spinka | 224-308-7238 | raynor.jayda@yahoo.com | 92174 Schaefer Freeway 'North Ro... | 3 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 12 | Clara | Humil | 774-240-7593 | meagan83@hotmail.com | 3985 Gra Crossing Apt. 376 'New... | 3 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 13 | Marge | Lakin | +1-559-657-7221 | oceans82@gmail.com | 608 Walker Corners 'Abbottville... | 3 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 14 | Billie | Satterfield | 505.648.1332 | anita59@hotmail.com | 14430 Durgan Highway Apt. 206 '... | 3 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 15 | Evan | Lind | (870) 571-3827 | rudolph42@harber.net | 964 Iene Gateway 'Smithshire, KY... | 3 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 16 | Madge | Gleichner | +1-651-303-5962 | maeve.cartwright@connelly.com | 4604 Leffler Port Apt. 345 'Mohr... | 4 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 17 | Retha | Watsica | 731-683-6402 | charles95@koss.net | 14649 Marks Lodge 'New Juanita... | 4 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 18 | Florence | Bernhard | +1 (218) 699-1592 | kyle.olson@gmail.com | 1654 Arlette Run 'Hoegerberg, MS... | 4 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 19 | Jaime | Schuster | 1-260-817-2463 | ponich.khalil@gmail.com | 45457 Kyleigh Forge Apt. 413 'La... | 4 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 20 | Vidal | Frami | 1-434-866-7140 | fay.nola@gleason.com | 8371 Pedro Stravenue 'Guskiowski... | 4 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 21 | Jennie | Prohaska | +1 (754) 995-4992 | okuneva.erin@yahoo.com | 17368 Moore Hill 'Streichchester... | 5 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 22 | Zoey | Konopski | 561.623.1188 | roy.smith@yahoo.com | 50541 Wisozk Points Suite 955 'G... | 5 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 23 | Amanda | Roob | +1-463-644-1958 | doug.medhurst@hotmail.com | 843 Roxanne Key 'Kiehnmouth, M... | 5 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 24 | Stefanie | Leuschke | +1 (585) 427-5407 | everardo.bergstrom@yahoo.com | 638 Hand Camp Suite 720 'Lake... | 5 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 25 | Sara | Lindgren | 1-380-950-7229 | larry.haavey@rump.com | 84008 Brooks Vaduett 'East Newt... | 5 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 26 | Martine | Bogan | 1-510-948-0998 | jessie.mitchell@gmail.com | 849 Elsa Plains Apt. 945 'South Es... | 6 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 27 | Alvis | Schumm | (743) 970-0405 | verner.homenick@karter.org | 11344 Bonnie View 'New Birdie, A... | 6 | 1 | 2022-01-10 04:58:33 | 2022-01- |
| 28 | Raquel | Hamill | 916.958.3475 | libby95@porczany.com | 8961 Antwon Station 'East Elwinch... | 6 | 1 | 2022-01-10 04:58:33 | 2022-01- |

012 Displaying Authenticated User's Data

Tuesday, September 20, 2022 4:19 PM

To filter user data

```
$user = Auth::user();  
$companies = $user->companies()->orderBy('name')->pluck('name', 'id')->prepend('All Company', "");
```

To attach user Id to queries

```
$request->user->contacts()->create($request->except('_token', '_method') + ['user_id' => Auth::id()]);  
OR  
Contact::create($request->except('_token', '_method') + ['user_id' => Auth::id()]);
```

002 Route Model Binding - Implicit

Wednesday, September 21, 2022 12:05 PM

Route model binding - is an elegant way to map routes to models which helps DRY principle

```
Route::get('/contacts/{contact}', [ContactController::class, 'show'])->name('contacts.show');
Route::get('/contacts/{contact}/edit', [ContactController::class, 'edit'])->name('contacts.edit');
Route::put('/contacts/{contact}', [ContactController::class, 'update'])->name('contacts.update');
Route::delete('/contacts/{contact}', [ContactController::class, 'destroy'])->name('contacts.destroy');
```

Ad on controllers

```
public function update(Contact $contact, Request $request)
{
    //...

public function edit(Contact $contact)
{
    //...

public function destroy(Contact $contact)
{
    // Contact::destroy($id);
    $contact->delete();
    //...
```

003 Customizing the key on route model binding

Wednesday, September 21, 2022 12:19 PM

1. We can override the `getRouteKeyName()` inside the model

/app/Models/Contact.php

```
....  
public function getRouteKeyName()  
{  
    return 'first_name';  
}
```

We override the default id key to be queried when a route requests

2. From Laravel 7+

```
Route::get('/contacts/{contact:first_name}', [ContactController::class, 'show'])->name('contacts.show');
```

004 Route Model Binding - Explicit

Wednesday, September 21, 2022

12:29 PM

This way of binding is more optional it add the ability to right more specific queries

/app/Providers/RouteServiceProvider.php

```
public function boot()
{
    Route::bind('contact', function($value){
        return Contact::where('first_name', $value)->firstOrFail();
    });
// OR
    Route::model('contacts', Contact::class);
}
```

005 Resource Routes

Wednesday, September 21, 2022 12:41 PM

Defines routes using nonconvention standard

```
Route::resource('/contacts', ContactController::class);
Route::resources([
    '/contacts' => ContactController::class,
    '/companies' => CompanyController::class
]);
```

006 Partial resource routes

Wednesday, September 21, 2022 1:03 PM

If you need a partial resourceful routes

Method 1 : Use only()

```
Route::resource('/contacts',ContactController::class)->except(['delete','show']);
```

Method 2 : User except

```
Route::resource('/contacts',ContactController::class)->except('delete');
```


007 API Resourceful Route

Wednesday, September 21, 2022 1:50 PM

In API you don't need edit & create methods b/c the server don't provide any form u will only handle json data

Php artisan make:controller API/ContactController --api -m Contact

And add route to

[/routes/api.php](#)

```
use App\Http\Controllers\API\CompanyController;
use App\Http\Controllers\API>ContactController;

Route::apiResource('/contacts', ContactController::class);
Route::apiResources([
    '/contacts' => ContactController::class,
    '/companies' => CompanyController::class
]);
```

008 Nested Resources

Wednesday, September 21, 2022 2:47 PM

When we have one to many relationships
Like one Company may have many contacts so

```
Route::resource('/companies.contacts', ContactController::class);
```

| | | |
|-----------|---|--|
| POST | companies/{company}/contacts | App\Http\Controllers\ContactController@store |
| GET HEAD | companies/{company}/contacts | App\Http\Controllers\ContactController@index |
| GET HEAD | companies/{company}/contacts/create | App\Http\Controllers\ContactController@create |
| GET HEAD | companies/{company}/contacts/{contact} | App\Http\Controllers\ContactController@show |
| DELETE | companies/{company}/contacts/{contact} | App\Http\Controllers\ContactController@destroy |
| PUT PATCH | companies/{company}/contacts/{contact} | App\Http\Controllers\ContactController@update |
| GET HEAD | companies/{company}/contacts/{contact}/edit | App\Http\Controllers\ContactController@edit |

009 Naming resource routes

Wednesday, September 21, 2022 2:56 PM

For resourceful routes to change names or parameters

U can change route names

```
Route::resource('/contacts', ContactController::class)->names([
    'index'=>'all',
    'show'=>'contacts.view'
]);
```

Also u can change parameter names

```
Route::resource('/contacts', ContactController::class)->names([
    'index'=>'contacts.all',
    'show'=>'contacts.view'
])->parameters([
    'contacts'=>'kontak'
]);
```

010 Put Complex query on its model

Wednesday, September 21, 2022 3:05 PM

We can move

Redundent queries to methods or models

We can move user companies

```
protected function userCompanies()
{
    $user = Auth::user();
    return $user->companies()->orderBy('name')->pluck('name', 'id')->prepend('All Company', '');
}
```

Call

```
$companies = $this->userCompanies();
```

Or move to company model

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
class Company extends Model
{
    use HasFactory;
    public function contacts()
    {
        return $this->hasMany(Contact::class);
    }
    public function user()
    {
        return $this->belongsTo(User::class);
    }

    public static function userCompanies()
    {
        // $user = Auth::user();
        return self::where('user_id', auth()->id)->orderBy('name')->pluck('name', 'id')->prepend('All
Company', '');
    }
}
```

Call

```
Company::userCompanies();
```

011 Form Request Validation

Wednesday, September 21, 2022 3:27 PM

php make:request [Method][Model]Request

Will create `/app/Http/Requests/ [Method][Model]Request.php` file

`/app/Http/Requests/ContactRequest.php`

```
<?php
namespace App\Http\Requests;
use Illuminate\Foundation\Http\FormRequest;
class ContactRequest extends FormRequest
{
    /**
     * Determine if the user is authorized to make this request.
     *
     * @return bool
     */
    public function authorize()
    {
        return true;
    }
    /**
     * Get the validation rules that apply to the request.
     *
     * @return array
     */
    public function rules()
    {
        return [
            'first_name' => 'required',
            'last_name' => 'required',
            'email' => 'required|email',
            'address' => 'required',
            'company_id' => 'required|exists:companies,id'
        ];
    }
}
```

User authorization

012 Customize Validation error messages

Wednesday, September 21, 2022 4:34 PM

We can override attributes() or messages()

/app/Http/Requests/ContactRequest.php

```
<?php
namespace App\Http\Requests;
use Illuminate\Foundation\Http\FormRequest;
class ContactRequest extends FormRequest
{
    /**
     * Determine if the user is authorized to make this request.
     *
     * @return bool
     */
    public function authorize()
    {
        return true;
    }
    /**
     * Get the validation rules that apply to the request.
     *
     * @return array
     */
    public function rules()
    {
        return [
            'first_name' => 'required',
            'last_name' => 'required',
            'email' => 'required|email',
            'address' => 'required',
            'company_id' => 'required|exists:companies,id'
        ];
    }
    public function attributes()
    {
        return [
            'company_id' => 'company',
            'email' => 'email address'
        ];
    }
    public function messages()
    {
        return [
            'email.email' => "The email is not right",
            '*.required' => "The :attribute is blaaaaaa",
        ];
    }
}
```

}

013 Useful methods when working with Form Request

Thursday, September 22, 2022 11:27 AM

To see routes and methods

```
dd($this->route('contact')); // see route contact model binding  
dd($this->method()); // see method sent by form
```


All

Friday, September 23, 2022 3:45 PM

For search functionality use scopes you need to override boot inside company Model and assing searchColumns varianle

/app/Models/Company.php

```
<?php
namespace App\Models;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
class Company extends Model
{
    use HasFactory;
    protected $fillable = ['name','address','website','email'];
    public $seartchColumns = ['name', 'email', 'address', 'website'];

    public static function booted()
    {
        static::addGlobalScope(new \App\Scopes\SearchScope);
    }
}
```

For header links

U can use

`request()->is("companies*") == 1`

Or

`request()->segment(1) == "companies"`

Or

`request()->path() == "companies"` -- this is not recommended only much exactly /companies don't match /companies/create ...

002 3 different ways debugging our queries

Thursday, September 29, 2022 3:45 PM

1. Replace get() method with toSql()
See the actual sql but not see actual value bindings

```
>>> Contact::latest()->take(3)->toSql()
=> "select * from `contacts` order by `created_at` desc limit 3"

>>> Contact::latest()->whereCompanyId(2)->toSql()
=> "select * from `contacts` where `company_id` = 2 order by `created_at` desc"
```

2. DB::listen(function(\$query){ dump(\$query->sql, \$query->bindings, \$query->time);})
You can use in app

```
/
<?php
namespace App\Providers;
use Illuminate\Support\Facades\DB;
use Illuminate\Support\Facades\Log;
use Illuminate\Pagination\Paginator;
use Illuminate\Support\ServiceProvider;
class AppServiceProvider extends ServiceProvider
{
    public function boot()
    {
        if(env('APP_DEBUG')){
            DB::listen(function($query){
                log::info($query->sql, $query->bindings, $query->time);
            });
        }
    }
}
```

It will create log inside `/storage/logs/laravel-[date].log`

3. Using Laravel debugger 3rd party package
Composer require barryvdh/laravel-debugger --dev

003 N+1 Query Problem & Eager LoadingUntitled page

Thursday, September 29, 2022 4:40 PM

In short, it's when Laravel code runs too many database queries. It happens because Eloquent allows developers to write a readable syntax with models, without digging deeper into what "magic" is happening under the hood.

This is not only an Eloquent, or even Laravel, problem: it's well-known in the dev industry. Why is it called "N+1"? Because, in the Eloquent case, it queries ONE row from the database, and then performs one more query for EACH related record. So, N queries, plus the record itself, total N+1. To solve it, we need to query the related records upfront, and Eloquent allows us to do that easily, with so-called [eager loading](#).

From <<https://laravel-news.com/laravel-n1-query-problem>>

b/c relationship data is not loaded prior to accessing properties (Lazy loading)

E.g when we load all user contacts

The screenshot shows a web application interface for 'CONTACT APP' with a navigation bar for 'Companies' and 'Contacts'. The 'All Contacts' page displays a table with 4 contacts. Below the table, the Laravel debug bar shows 14 SQL queries executed. The queries include selecting users, companies, and contacts, with several queries for pagination and filtering. The debug bar also shows the execution time for each query and the total time for the request.

| # | First Name | Last Name | Email | Company | Actions |
|---|------------|-----------|----------------------------|----------------------------|---|
| 1 | Lera | Feil | dominic.lindgren@gmail.com | test3 | + - x |
| 2 | Trystan | Lesch | ujenkins@hotmail.com | Nolan, Von and Fritsch | + - x |
| 3 | Drew | Mayer | ernestina.herman@yahoo.com | test3 | + - x |
| 4 | Jon | Goodwin | ecarter@hotmail.com | Willms, Herzog and McGlynn | + - x |

```
14 statements were executed, 5 of which were duplicated, 9 unique
select * from 'users' where 'id' = 3 limit 1
select 'name', 'id' from 'companies' where 'companies`.`user_id` = 3 and 'companies`.`user_id` is not null order by 'name' asc
select count(*) as aggregate from 'contacts' where 'contacts`.`user_id` = 3 and 'contacts`.`user_id` is not null
select * from 'contacts' where 'contacts`.`user_id` = 3 and 'contacts`.`user_id` is not null order by 'id' desc limit 10 offset 0
select * from 'companies' where 'companies`.`id` = 0 limit 1
select * from 'companies' where 'companies`.`id` = 2 limit 1
select * from 'companies' where 'companies`.`id` = 9 limit 1
select * from 'companies' where 'companies`.`id` = 6 limit 1
select * from 'companies' where 'companies`.`id` = 6 limit 1
select * from 'companies' where 'companies`.`id` = 2 limit 1
```

There are 14 queries
From which 4 are written while 10 are lazy-loaded
By changing the query inside contact controller

\$contacts = \$user->contacts()->with('company')->latestFirst()->paginate(10);

We get

The screenshot shows the same web application interface, but the debug bar now shows only 5 SQL queries. This indicates that the N+1 problem has been solved by using eager loading. The queries are more efficient, as they load all the data needed for the page in a single query.

| # | First Name | Last Name | Email | Company | Actions |
|---|------------|-----------|----------------------------|----------------------------|---|
| 1 | Lera | Feil | dominic.lindgren@gmail.com | test3 | + - x |
| 2 | Trystan | Lesch | ujenkins@hotmail.com | Nolan, Von and Fritsch | + - x |
| 3 | Drew | Mayer | ernestina.herman@yahoo.com | test3 | + - x |
| 4 | Jon | Goodwin | ecarter@hotmail.com | Willms, Herzog and McGlynn | + - x |

```
5 statements were executed
select * from 'users' where 'id' = 3 limit 1
select 'name', 'id' from 'companies' where 'companies`.`user_id` = 3 and 'companies`.`user_id` is not null order by 'name' asc
select count(*) as aggregate from 'contacts' where 'contacts`.`user_id` = 3 and 'contacts`.`user_id` is not null
select * from 'contacts' where 'contacts`.`user_id` = 3 and 'contacts`.`user_id` is not null order by 'id' desc limit 10 offset 0
select * from 'companies' where 'companies`.`id` in (1, 2, 3, 6, 7, 8, 9)
```

004 Advanced Eager Loading

Thursday, September 29, 2022 6:01 PM

For eager user `with('model')->`for disengage `without('model1','model2')`

1. U can eager load after retrieving queries

```
$users = User::take(2)->get();  
$users->load('companies');
```

2. Or when retrieving Models

E.g. when loading user model load user contacts and companies.

```
<?php  
namespace App\Models;  
use Illuminate\Contracts\Auth\MustVerifyEmail;  
use Illuminate\Database\Eloquent\Factories\HasFactory;  
use Illuminate\Foundation\Auth\User as Authenticatable;  
use Illuminate\Notifications\Notifiable;  
use Laravel\Sanctum\HasApiTokens;  
class User extends Authenticatable  
{  
    use HasApiTokens, HasFactory, Notifiable;  
    /**  
     * The attributes that are mass assignable.  
     *  
     * @var array<int, string>  
     */  
    protected $fillable = [  
        'name',  
        'email',  
        'password',  
    ];  
    /**  
     * The attributes that should be hidden for serialization.  
     *  
     * @var array<int, string>  
     */  
    protected $hidden = [  
        'password',  
        'remember_token',  
    ];  
    protected $with = ['contacts','companies'];
```

005 Detecting N+1 problem Automatically

Monday, October 3, 2022 4:59 PM

Laravel Query Detector

From

<<https://beyondco.de/docs/laravel-query-detector/usage>>
<https://github.com/beyondcode/laravel-query-detector>

Automatically detects N+1 query problems

006 Counting Related Models

Monday, October 3, 2022 5:23 PM

1. Before fetching/loading

Using `withCount()` in the resulting models will have `[relation]_count` column

```
>>> $user = User::withCount(['contacts','companies'])->take(2)->get()
"select `users`.*, (select count(*) from `contacts` where `users`.`id` = `contacts`.`user_id`) as `contacts_count`, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id`) as `companies_count` from `users` limit 2"
[]
1.01
"select `users`.*, (select count(*) from `contacts` where `users`.`id` = `contacts`.`user_id`) as `contacts_count`, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id`) as `companies_count` from `users` limit 2"
[]
1.01
=> Illuminate\Database\Eloquent\Collection {#4593
  all: [
    App\Models\User {#4592
      id: 1,
      name: "Corrine Strosin",
      email: "schulist.telly@example.org",
      email_verified_at: "2022-09-20 13:16:38",
      #password: "$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi",
      #remember_token: "s77RfL6D7I1tf9LWDJCw1qpm4HCXgLYy5A7a7nyXNs9MM7jlmExSvQA7I2a",
      created_at: "2022-09-20 13:16:38",
      updated_at: "2022-09-20 13:16:38",
      contacts_count: 10,
      companies_count: 3,
    },
    App\Models\User {#4596
      id: 2,
      name: "Lew Boehm",
      email: "erik32@example.com",
      email_verified_at: "2022-09-20 13:16:38",
      #password: "$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi",
      #remember_token: "PAv1mUVhUS",
      created_at: "2022-09-20 13:16:38",
      updated_at: "2022-09-20 13:16:38",
      contacts_count: 10,
      companies_count: 3,
    },
  ],
}
```

Users sub-query u can also have multiple counts

The screenshot shows an iTerm2 terminal window with a PHP script being executed. The script uses Laravel's Eloquent ORM to fetch a list of users, each with their associated companies. The terminal output shows the SQL query and the resulting array of user objects.

```
>>> $users = User::withCount(['companies', 'companies_count_with_and_word' => function ($query) { $query->where('name', 'like', '%and%'); }])->take(2)->get();
"select `users`.*, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id`) as `companies_count`, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id` and `name` like ?) as `companies_count_with_and_word` from `users` limit 2"
array:1 [
  0 => "%and%"
]
=> Illuminate\Database\Eloquent\Collection {#3117
  all: [
    App\User {#3196
      id: 1,
      name: "Sydni Wilderman",
      email: "elvera.roberts@example.org",
      email_verified_at: "2020-01-12 02:40:39",
      created_at: "2020-01-12 02:40:39",
      updated_at: "2020-01-12 02:40:39",
      companies_count: 4,
      companies_count_with_and_word: 3,
    },
    App\User {#3078
      id: 2,
      name: "Holly Hintz",
      email: "dweimann@example.com",
      email_verified_at: "2020-01-12 02:40:39",
      created_at: "2020-01-12 02:40:39",
      updated_at: "2020-01-12 02:40:39",
      companies_count: 2,
      companies_count_with_and_word: 0,
    },
  ],
}
```

The web application displays a table of users with their associated companies. The table has columns for ID, Name, Email, and Company. The data is as follows:

| ID | Name | Email | Company |
|----|------------------|-----------------------------|-----------------------------|
| 1 | Sydni Wilderman | elvera.roberts@example.org | Mayer, Jenkins and Anderson |
| 2 | Holly Hintz | dweimann@example.com | Mayer, Jenkins and Anderson |
| 3 | Autumn Sporer | cgraham@hotmail.com | Mayer, Jenkins and Anderson |
| 4 | Hassie Leffler | camden38@morissette.biz | Mayer, Jenkins and Anderson |
| 5 | Marisol Bergnaum | abernathy.garrick@yahoo.com | Mayer, Jenkins and Anderson |
| 6 | Janice Toy | abby.dibbert@hotmail.com | Mayer, Jenkins and Anderson |

2. After fetching model

```

>>> $user = User::take(1)->get()
"select * from `users` limit 1"
[]
0.95
"select * from `users` limit 1"
[]
0.95
=> Illuminate\Database\Eloquent\Collection {#4671
  all: [
    App\Models\User {#4670
      id: 1,
      name: "Corrine Strosin",
      email: "schulist.telly@example.org",
      email_verified_at: "2022-09-20 13:16:38",
      #password: "$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uhewG/igi",
      #remember_token: "s77RfFL6D7I1tf9LWDJCw1qpm4HCXgLYy5A7a7nyXNs9MM7jlmExSvQA7I2a",
      created_at: "2022-09-20 13:16:38",
      updated_at: "2022-09-20 13:16:38",
    },
  ],
}

>>> $user->loadCount('companies')
"select `id`, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id`) as `companies_count` from `users` where `users`.`id` in (?)"
array:1 [
  0 => 1
]
1.01
"select `id`, (select count(*) from `companies` where `users`.`id` = `companies`.`user_id`) as `companies_count` from `users` where `users`.`id` in (?)"
array:1 [
  0 => 1
]
1.01
=> Illuminate\Database\Eloquent\Collection {#4671
  all: [
    App\Models\User {#4670
      id: 1,
      name: "Corrine Strosin",
      email: "schulist.telly@example.org",
      email_verified_at: "2022-09-20 13:16:38",
      #password: "$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uhewG/igi",
      #remember_token: "s77RfFL6D7I1tf9LWDJCw1qpm4HCXgLYy5A7a7nyXNs9MM7jlmExSvQA7I2a",
      created_at: "2022-09-20 13:16:38",
      updated_at: "2022-09-20 13:16:38",
      companies_count: 3,
    },
  ],
}

```

*if there is a select method make sure it is called first

```
User::select(['name'])->withCount('contacts');
```


002 Setting up endpoints for edit profile

Monday, October 3, 2022 6:10 PM

Create route

```
Route::get('/setting/profile', [ProfileController::class, 'edit'])->name('setting.profile.edit');  
Route::put('/setting/profile', [ProfileController::class, 'update'])->name('setting.profile.update');
```

Create controller

```
php artisan make:controller Settings\ProfileController -r
```

Notes

Thursday, August 11, 2022 9:39 PM

| | |
|--------------------|----------------------------------|
| php artisan tinker | Laravel command line interpreter |
|--------------------|----------------------------------|

```
\DB::enableQueryLog()  
Dd(\DB::getQueryLog())
```

DRY (Don't Repeat Yourself)