# Laravel Training d1

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http://fstm.kuis.edu.my/blog/laravel



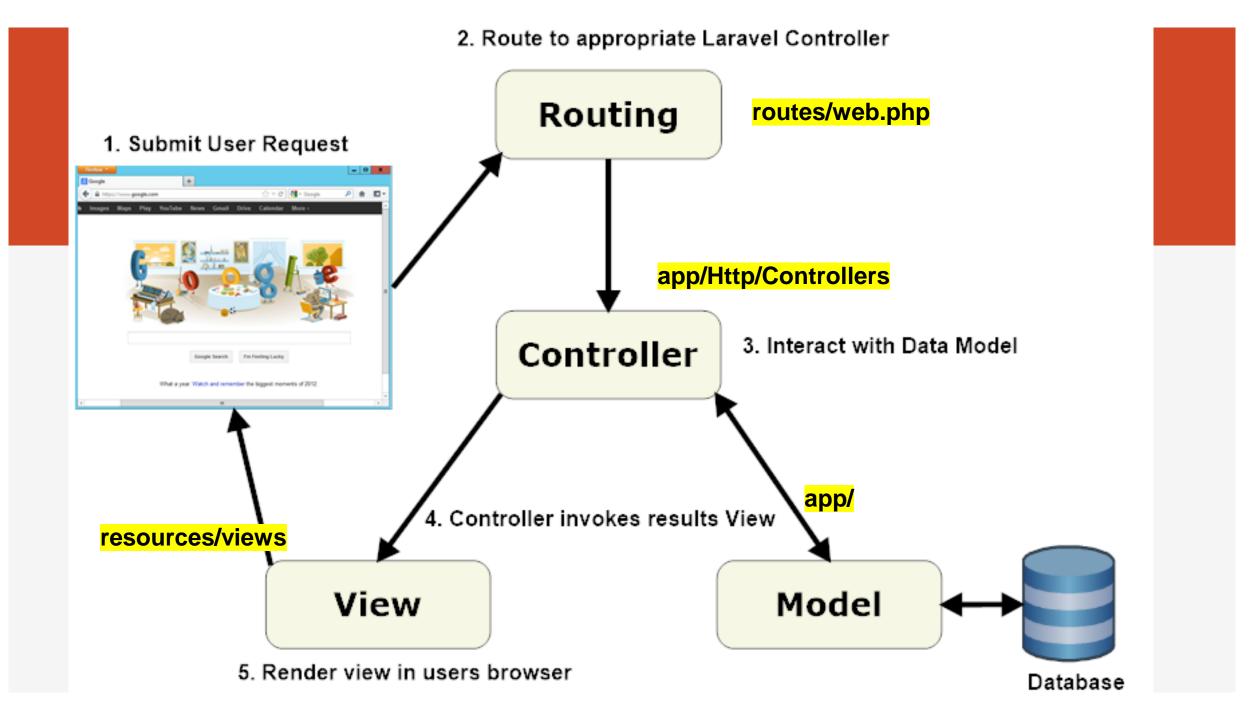
## **Module Outcome**

### Day 1

- Create Laravel Project
- Working with Database.
- Working with Model
- Working with Controllers
- Working with Views

### What will be needed

- Laragon
- phpMyAdmin
- VS Code



# Create Laravel First Project

Install Laravel by issuing the Composer create-project command in your terminal

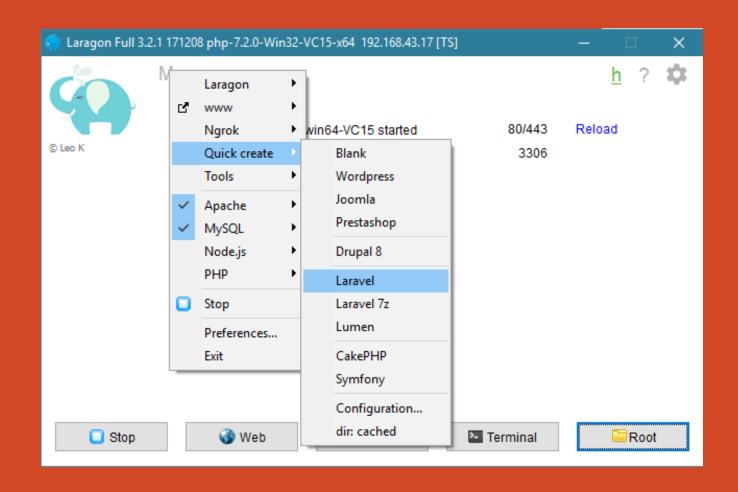
composer create-project --prefer-dist laravel/laravel project-name



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# With Laragon? Never been EASIER.





# Laragon

### What is Laragon?

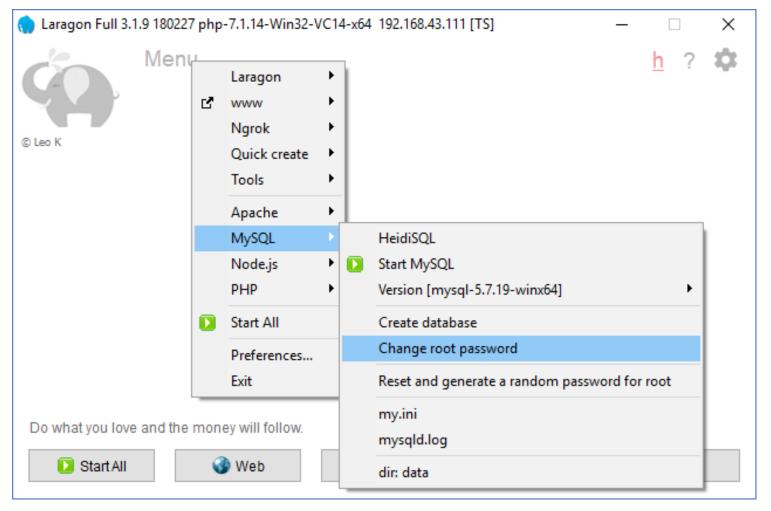
Laragon is a portable, isolated, fast & powerful universal development environment for PHP, Node.js, Python, Java, Go, Ruby. It is fast, lightweight, easy-to-use and easy-to-extend.

### Why Laragon?

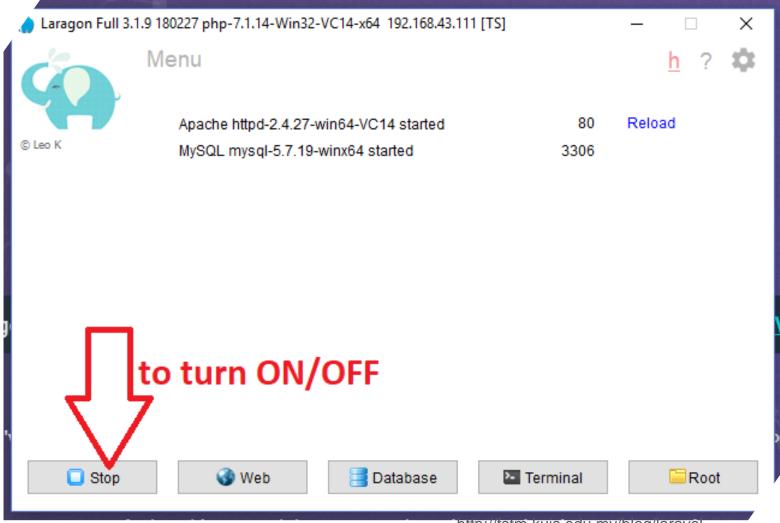
Laragon is great for building and managing modern web applications. It is focused on performance - designed around stability, simplicity, flexibility and freedom.

Laragon improves web development. Developers all over the world are using Laragon to make apps quickly and easily. It is used by thousands of developers with loves. You can check out the Testimonials to see how users think of Laragon and it's features page for more details.

# Change DB root password

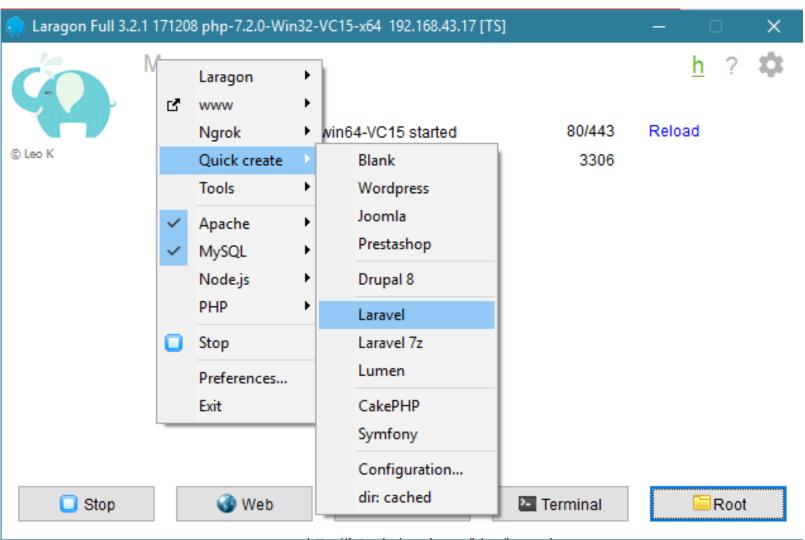


# Turn On Laragon

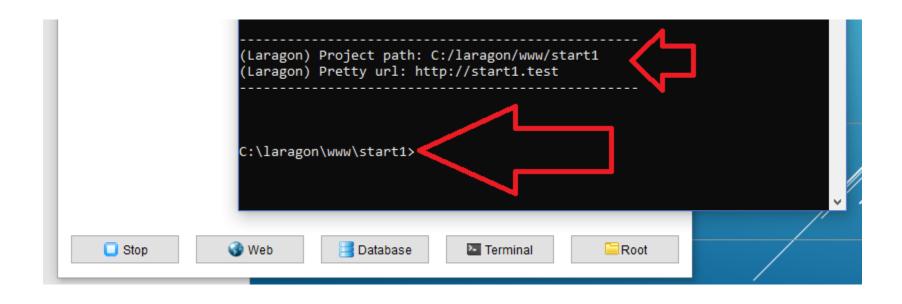


By default Laragon will served port 80 for Apache and port 3306 for DB

# Create Project



# Project with Pretty URL

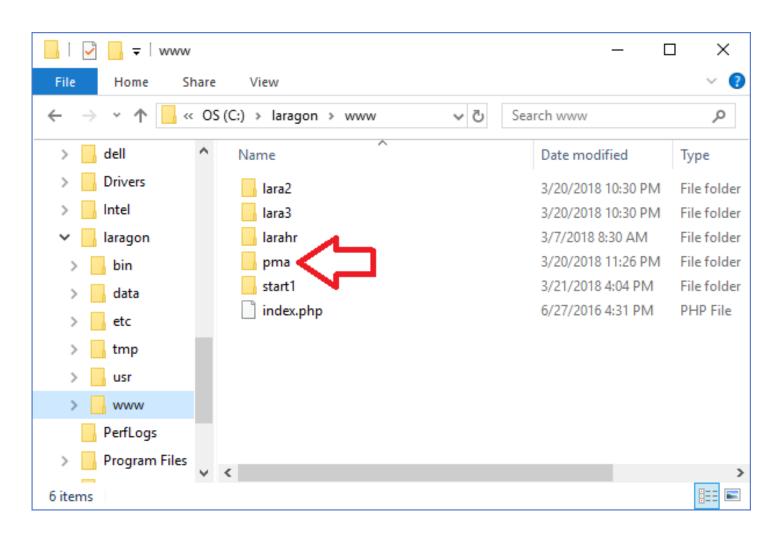


Test the Pretty url in browser

# Update DB credentials in .env

```
9 DB_CONNECTION=mysql
10 DB_HOST=127.0.0.1
11 DB_FOR1=3300
12 DB_DATABASE=start1
13 DB_USERNAME=root
14 DB_PASSWORD=abc123
15
```

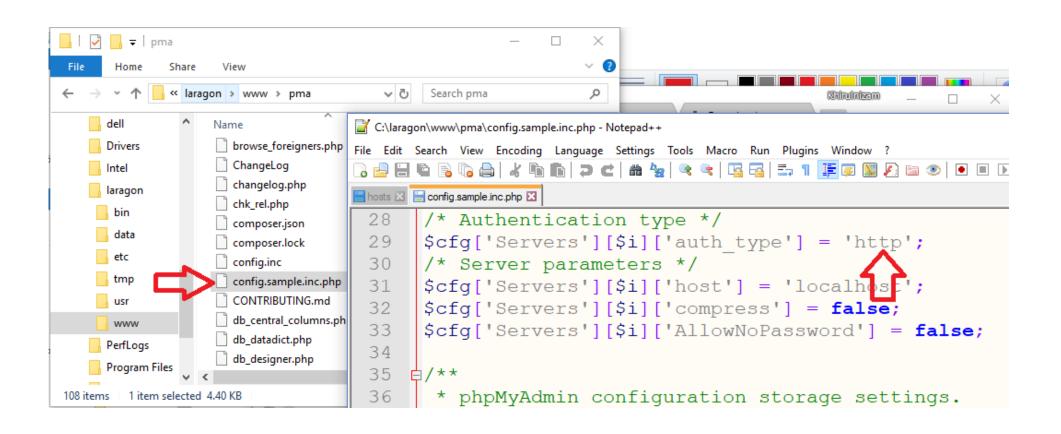
# Download and install phpmyadmin.Net



Try access

http://localhost/pma

# Phpmyadmin config.inc



### **Authentication Module**

Laravel makes implementing authentication very simple. In fact, almost everything is configured for you out of the box.

```
composer require laravel/ui --dev

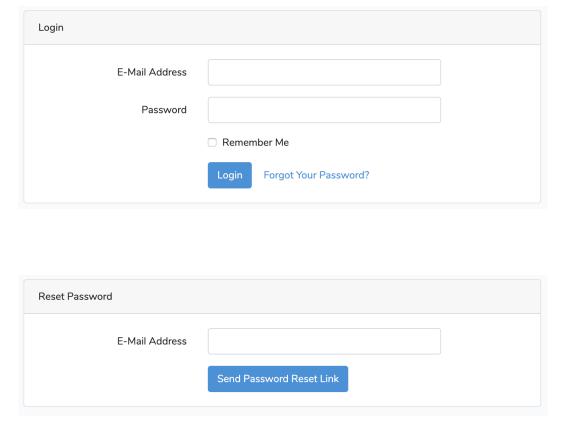
php artisan ui vue --auth

npm install

npm run dev
```

### **Authentication Module**

```
database
                                             public function up()
                                 14
  in factories
                                 15
  imigrations
       2014_10_12_000000_create_users_table
                                 16
                                                   Schema::create('users', function (Blueprint
     2014_10_12_100000_create_password_r
                                                        $table->increments('id');
 ± ... i seeds
                                                        $table->string('name');
                                18
  .gitignore
i public
                                 19
                                                        $table->string('email')->unique();
i resources
                                 20
                                                        $table->string('password');
i routes
                                21
                                                        $table->rememberToken();
±-- istorage
in lests
                                 22
                                                        $table->timestamps();
i vendor
                                 23
  C:\Windows\SYSTEM32\cmd.exe - cmd.exe
                                                                 ×
 C:\laragon\www\start1>php artisan migrate 🤇
 Migration table created successfully.
                                                                    igrations.
  Migrating: 2014_10_12_000000_create_users_table
 Migrated: 2014 10 12 000000 create users table
 Migrating: 2014 10 12 100000 create password resets table
 Migrated: 2014 10 12 100000 create password resets table
 C:\laragon\www\start1>
                                                                    down()
```



Register	
Name	
E-Mail Address	
Password	
Confirm Password	
	Register

# Working with Database

### **Database Migrations**

Migrations are like version control for your database.

### **Make Migrations**

```
php artisan make:migration create_trainings_table
```

### **Run Migrations**

```
php artisan migrate
```

```
public function up()
{
    Schema::create('trainings', function (Blueprint $table) {
        $table->bigIncrements('id');
        $table->string('title');
        $table->text('description');
        $table->string('trainer');
        $table->timestamps();

    $table->timestamps();

    $table->roreign('user_id')->references('id')->on('users');
});
```

# Working with Database

#### **Database Factories**

Laravel has a feature called model factories that allows you to build fake data for your models.

#### **Make Factory**

```
php artisan make:factory TrainingFactory
```

### **Run Factory**

```
php artisan tinker
factory('App\Training',10)->create();
```

```
use App\Training;
use Faker\Generator as Faker;

$factory->define(Training::class, function (Faker $faker) {
    return [
        'title' => $faker->sentence(5),
        'description' => $faker->text(),
        'trainer' => $faker->name,
        'user_id' => factory('App\User')->create()->id,
        ];
});
```

# Working with Database

#### **Database Seeds**

Laravel includes a simple method of seeding your database with test data using seed classes.

#### Make Seeder

php artisan make:seeder TrainingsTableSeeder

#### **Run Seeder**

php artisan db:seed

#### On <a href="mailto:database/seeds/TrainingsTableSeeder.php">database/seeds/TrainingsTableSeeder.php</a>

```
public function run()
{
    DB::table('trainings')->insert([
          'title' => 'Laravel Training 6 Days(Advanced)',
          'description' => 'The 6 Days training focus on enhancement API to Restful Architecture',
          'trainer' => 'Khirulnizam',
          'user_id' => factory('App\User')->create()->id,
    ]);
}
```

#### On database/seeds/DatabaseSeeder.php

```
public function run()
{
    $this->call(TrainingsTableSeeder::class);
}
```

### How to create and run migrations, seeder and factory?

Here are the example.

### Make Migrations

```
php artisan make:migration create_trainings_table
php artisan make:migration alter_articles_table_add_attachment
```

### **Run Migrations**

php artisan migrate

### Make Seeder

php artisan make:seeder TrainingsTableSeeder

#### **Run Seeder**

php artisan db:seed

### Make Factory

php artisan make:factory TrainingFactory

### **Run Factory**

### Model

Models typically live in the app directory.

All Eloquent models extend Illuminate\Database\Eloquent\Model class.

### Model

php artisan make:model Training

```
<?php
namespace App;
use Illuminate\Database\Eloquent\Model;
class Training extends Model
{</pre>
```

### Model

```
protected $fillable = [
                                                                  Model used to define fillable attributes.
    'title', 'description', 'trainer', 'user_id', 'attachment'
];
                                                                 Model also can be used to define
public function user()
                                                                 relationship
   return $this->belongsTo('App\User');
                                                                 Model also can be used to to specify
 protected $table= 'articles';
                                                                 custom table.
 //define $article->submitted_date
 public function getSubmittedDateAttribute(){
                                                                  Model also can be used to define mutator
     return $this->created_at->format('d/m/Y');
 public function scopePublished($query){
                                                                  Model also can be used to define local
     return $query->where('published',1);
                                                                  scope
```

### Controller

Instead of defining all of your request handling logic as Closures in route files, you may wish to organize this behavior using Controller classes.

Controllers can group related request handling logic into a single class.

Controllers are stored in the.app/Http/Controllers directory.

### Make Controller

php artisan make:controller TrainingController

∨ app Console > Exceptions ∨ Http ∨ Controllers ✓ Admin BookingsController.php CategoryController.php CountriesController.php CustomersController.php FindRoomsController.php RolesController.php RoomsController.php

## Controller

7 method in controllers

### **Make Controller**

php artisan make:controller TrainingController

# **Action** index create store show edit update destroy

### Controller - Index

Description URL Controller Function

Default page for Showing all the training.

Controller Function

Function

index() app/views/trainings/index.blade.php

app/views/trainings/index.blade.php

```
class TrainingController extends Controller
{
    //
    public function index()
    {
        $trainings = Training::all();
        return view('trainings.index')->with(compact('trainings'));
    }
}
```

### Controller - Create

```
Description
                   URL
                                         Controller
                                                     View File
                                         Function
             GET
                                                       app/views/trainings/create.blade.php
Show the
                                           create()
             example.com/trainings/create
form to
create a
new
training.
                  public function create()
                       return view('trainings.create');
```

### Controller - Store

Process the create form submit and save POST store() NONE the training to the database.

```
//Method 2

$user = auth()->user();

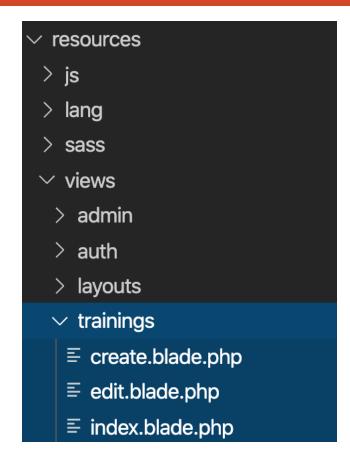
$article = $user->trainings()->create($request->only('title','description','trainer'));
```

```
- use Illuminate\Support\Facades\Auth;
 class TrainingController extends Controller
@ -17,4 +18,17 @@ public function create()
         return view('trainings.create');
     public function store(Request $request)
         //Method 1
         $training = new Training();
         $training->title = $request->get('title');
         $training->description = $request->get('descript
         $training->trainer = $request->get('trainer');
         $training->user_id = Auth::id();
         $training->save();
         return redirect('/trainings');
```

### Views

Views contain the HTML served by your application and separate your controller / application logic from your presentation logic.

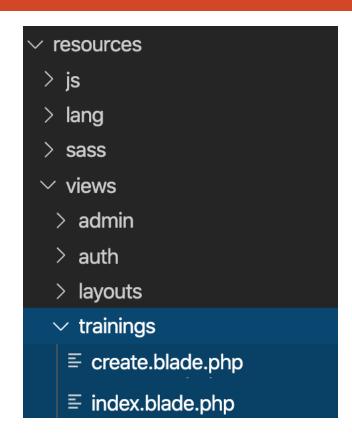
Views are stored in the resources/views directory



### Views

Views are stored in the resources/views directory

- 1. Go to resources/views
- 2. Create training folder
- 3. Inside training folder, create:
  - 1. create.blade.php
  - 2. index.blade.php



### Views – Index View

Views are stored in the resources/views directory

1. Go to resources/views/trainings/index.blade.php

```
@extends('layouts.app')
@section('content')
<div class="container">
   <div class="row justify-content-center">
      <div class="col-md-8">
         <div class="card">
             <div class="card-header">Training Index</div>
            <div class="card-body">
                <thead>
                      ID
                         Title
                         Creator
                         Actions
                      </thead>
                   @foreach ($trainings as $training)
                         {{ $training->id}}
                            {{ $training->title}}
                            {{ $training->user_id}}
                             <a href="" class="btn btn-primary">Show</a>
                                <a href="" class="btn btn-success">Edit</a>
                                <a href="" class="btn btn-danger"
                                   onclick="return confirm('Are you sure?')">Delete</a>
                             @endforeach
                   </div>
         </div>
      </div>
                                                                     30
```

### Views - Create View

Views are stored in the resources/views directory

1. Go to resources/views/trainings/create.blade.php

```
@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col-md-8">
            <div class="card">
                <div class="card-header">Create Training</div>
                <div class="card-body">
                    <form action="" method="POST">
                        @csrf
                        <div class="form-group">
                            <label for="title">Title</label>
                            <input type="text" class="form-control" name="title">
                        </div>
                        <div class="form-group">
                            <label for="title">Description</label>
                            <textarea name="description" cols="20" rows="10" class="form-control"></textar
                        </div>
                        <div class="form-group">
                            <label for="title">Trainer</label>
                            <input type="text" class="form-control" name="trainer">
                        </div>
                        <div class="form-group">
                            <button type="submit" class="btn btn-primary">Create New Training/button>
                            <a href="" class="btn btn-link">Cancel</a>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
                                                                                          31
```

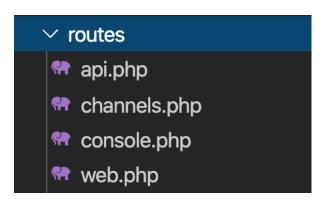
@endsection ⊘←

@extends('layouts.app')

# Routing

All Laravel routes are defined in your route files, which are located in the routes directory.

https://laravel.com/docs/6.x/routing.

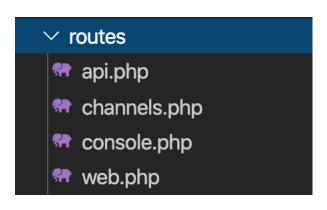


```
Route::get($uri, $callback);
Route::post($uri, $callback);
Route::put($uri, $callback);
Route::patch($uri, $callback);
Route::delete($uri, $callback);
Route::options($uri, $callback);
```

# Routing – Group and Named Route

All Laravel routes are defined in your route files, which are located in the routes directory.

https://laravel.com/docs/6.x/routing.



```
Route::group([
    'middleware' => ['auth'],
    'prefix' => 'trainings',
    'as' => 'training:'
], function() {
    Route::get('/', 'TrainingController@index')->name('index');
    Route::get('/create', 'TrainingController@create')->name('create');
    Route::post('/create', 'TrainingController@store')->name('store');
});
```

# Routing – Group and Named Route

php artisan route:list

```
GET|HEAD | trainings | training:index | App\Http\Controllers\TrainingController@index | web,auth

GET|HEAD | trainings/create | training:create | App\Http\Controllers\TrainingController@create | web,auth

POST | trainings/create | training:store | App\Http\Controllers\TrainingController@store | web,auth
```

### Hacks

Creating Index - <a href="https://github.com/samtarmizi/laravel-spr/commit/1c925853f61da081f0e3ce298e58a4a423b66040">https://github.com/samtarmizi/laravel-spr/commit/1c925853f61da081f0e3ce298e58a4a423b66040</a>

Creating Create - <a href="https://github.com/samtarmizi/laravel-spr/commit/7a5b5f3b643bcb8a265af3bb9f4e94e3aef95aa1">https://github.com/samtarmizi/laravel-spr/commit/7a5b5f3b643bcb8a265af3bb9f4e94e3aef95aa1</a>

Creating Store - <a href="https://github.com/samtarmizi/laravel-spr/commit/2513b55c65bc4d27afa5004144ee2c7d41b3cbd7">https://github.com/samtarmizi/laravel-spr/commit/2513b55c65bc4d27afa5004144ee2c7d41b3cbd7</a>