



# ANGULAR 2 FUNDAMENTALS

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*December 13, 2017*

# PART 10

# SUMMARY

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- Congratulations on the fully responsive gallery!
- What you have learned:
  - Integrate bootstrap
  - Template binding and sending data to other components
  - Directives gif, ngfor etc
  - What a service is
  - Custom events
  - Angular router
  - Ayos na! Hahahah

# OFF TOPIC BUT FOR YOUR APPRECIATION ON THE BACKEND SIDE

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- LARAVEL
- INSTALL XAMPP IN WINDOWS (PHP, MYSQL, APACHE)
- INSTALL COMPOSER
- MAKE SURE IT RUNS

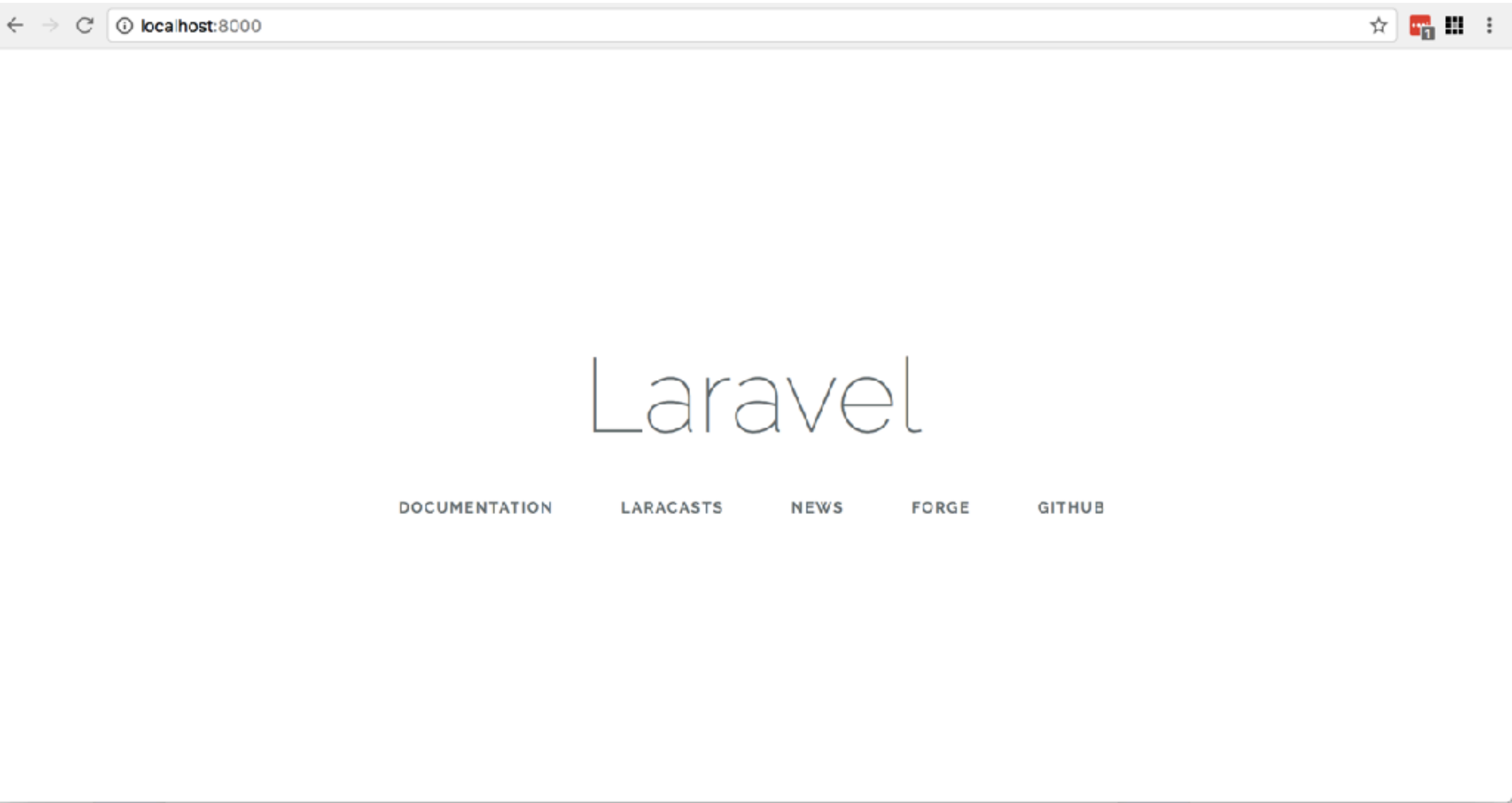
# CREATE NEW LARAVEL PROJECT

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- `composer create-project laravel/laravel project_name --prefer-dist`
- `php artisan serve`

# NEW SERVER

.....



# CREATE DATABASE

---

- Use phpmyadmin

# REGISTER IN SERVER

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## ➤ Edit .env file

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=angularbook
DB_USERNAME=homestead
DB_PASSWORD=secret
```



# WRITING API

---

- `php artisan make:model Image -m`
- 2 new files image file and image migration
  - `app/Image.php`
  - `database/migrations/timestamp_create_images_table.php`

# OPEN TIMESTAMP\_CREATE\_IMAGES\_TABLE.PHP

---

```
public function up()
{
    Schema::create('images', function (Blueprint $table) {
        $table->increments('id');
        $table->string('title', 255);
        $table->text('description')->nullable();
        $table->string('thumbnail')->nullable();
        $table->string('imageLink')->nullable();
        $table->integer('user_id')->nullable();
        $table->timestamps();
    });
}
```

# RUN THE MIGRATION

---

- php artisan migrate
- Update Image.php model

```
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Image extends Model
{
    protected $fillable = [
        'title', 'description', 'thumbnail', 'imageLink', 'user_id'
    ];
}
```

# SEEDING A DATABASE

---

- Create a seeder:

```
php artisan make:seeder ImagesTableSeeder
```

- Open imagesTableSeeder file: database/seeds/  
ImagesTableSeeder.php

- Find:

```
class ImagesTableSeeder extends Seeder
```

- Add Above:

```
use App\Image;  
use Faker\Factory as Faker;
```

# UPDATE THE RUN METHOD

---

```
public function run()  
{  
    $faker = Faker::create();  
    $imageLinks = array(  
        "https://angularbooks.com/img/angular4/img1",  
        "https://angularbooks.com/img/angular4/img2",  
        "https://angularbooks.com/img/angular4/img3",  
        "https://angularbooks.com/img/angular4/img4",  
        "https://angularbooks.com/img/angular4/img5",  
        "https://angularbooks.com/img/angular4/img6",  
        "https://angularbooks.com/img/angular4/img7",  
        "https://angularbooks.com/img/angular4/img8",  
    );  
}
```

# STILL IN THE SEEDER

---

```
foreach($imageLinks as $imageLink)
{

    Image::create([
        'title' => $faker->text(80),
        'description' => $content = $faker->paragraph(18),
        'thumbnail' => $imageLink."<img alt=""/>.jpg",
    ])
}
```

# STILL IN THE SEEDER

---

```
        'imageLink' => $imageLink."-1.jpg",  
        'user_id' => $faker->numberBetween($min = 1, $max = 5),  
    ]);  
}  
}
```

# ACTIVATE SEEDER

---

- Open app/database/seeds/DatabaseSeeder.php

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

- php artisan db:seed



# WHAT IS AN API ENDPOINT

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- Is a url where we use to connect and send request to our application
- Lets create an endpoint that would list all images
- Open routes/api.php
- add:

```
Route::resource('images', 'ImagesController');
```

- Create a new controller:

```
php artisan make:controller ImagesController --resource
```

# APP/HTTP/CONTROLLER/IMAGESCONTROLLER.PHP

---

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

class ImagesController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        //
    }

    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        //
    }
}
```

# CHECK ROUTES

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- php artisan route:list
- Open ImagesController.php and edit index:

```
public function index()
{
    $images = Image::all();
    $response = Response::json($images,200);
    return $response;
}
```

- Remember to add find:

```
class ImagesController extends Controller
```

- Add above:

```
use App\Image;
use Illuminate\Support\Facades\Response;
```

# CHECK THE FIRST API ENDPOINT

➤ localhost:8000/api/images

```
[
  - {
    id: 1,
    title: "This is a new title! The message is cool!",
    description: "Sit tempora non et repudiandae laborum. Voluptatum aut enim odio deserunt. Facere voluptas voluptate necessitatibus magnam. Quo eos eum possimus sed quo sequi voluptas natus. Fuga ut cum aut dolorum deleniti est. Quos aut ab reiciendis rerum. Omnis harum voluptas veniam possimus modi qui. Natus sint provident earum ratione dicta ea cum. Consequatur provident et eaque molestias facere esse. Voluptatum et facilis praesentium itaque. Vero magni sapiente perspiciatis accusamus. Et earum consequatur maiores quasi quia docimus et. In amet atque odit alias tempora facilis. Nulla reiciendis nihil voluptas. Iste rem hic praesentium. Ab asperiores tempora quae sint voluptates. Sunt temporibus perspiciatis accusantium sed et dolor earum. Aut vel illum perspiciatis et neque. Voluptatem quas quis odio minus delectus corrupti. Aut sed occaecati aut corrupti. Occaecati nobis voluptatem odio sequi ut aliquid quas. Qui molestiae temporibus odit ratione. Illum eveniet explicabo distinctio voluptatem. Quod nihil nobis laboriosam sint non aut enim. Non perspiciatis unde alias in. Earum quia sit nobis quia. Iste et soluta nam est et quae error inventore. Atque officia enim deleniti nisi. Dolorem sequi labore quidem suscipit tempore. Qui qui ex qui natus. de",
    thumbnail: "https://angularbooks.com/img/angular4/img1.jpg",
    imageLink: "https://angularbooks.com/img/angular4/img1-1.jpg",
    user_id: 3,
    created_at: "2017-02-18 09:58:48",
    updated_at: "2017-03-25 02:40:43"
  },
  - {
    id: 2,
    title: "Dolores placeat at est et excepturi quia velit molestiae.",
    description: "Odio doloremque blanditiis incidunt eos facilis. Et inventore qui dignissimos omnis animi ipsam alias. Est voluptatem minus vel ratione culpa ipsa autem. Doloremque temporibus odit dolore molestiae. Omnis aliquam ex quia velit ipsam et. In facilis consequatur nostrum quod eligendi temporibus. Quibusdam dolor quia dolores dignissimos ullam modi magnam est. Non dolorem molestiae voluptatem praesentium qui velit architecto. Debitis consectetur sapiente consequuntur eius velit sint. Dolores dolores labore delectus expedita asperiores nisi. Et non quaerat velit beatae perferendis adipisci. Rerum esse sit magnam ab sunt enim. Amet quia sint necessitatibus possimus excepturi a autem. Aut ullam cum eligendi veritatis unde ea earum. Debitis et esse maiores officia sequi et vel. Et debitis beatae ullam a. Expedita minima quasi vero porro mollitia nobis. At voluptas ut non cumque hic doloribus. Minus nihil cumque suscipit optio dolores.",
    thumbnail: "https://angularbooks.com/img/angular4/img2.jpg",
    imageLink: "https://angularbooks.com/img/angular4/img2-1.jpg",
    user_id: 1,
    created_at: "2017-02-18 09:58:48",
    updated_at: "2017-02-18 09:58:48"
  },
  - {
    id: 3,
    title: "Quisquam a inventore dicta officiis. 3",
    description: "Vel minima dolore omnis fugit ut. Earum officiis enim eligendi alias. Officiis dolorem modi eaque ex. In laboriosam nisi veniam natus dolorem inventore. Aut aperiam consequatur nesciunt at accusantium ea. Aliquadm reprehenderit ad quo blanditiis eligendi. Aut vel ut quia blanditiis pariat. Perferendis assumenda et minus et dolorem. Dignissimos ab cum suscipit numquam hic harum veritatis. Et mollitia molestiae eum quia adipisci autem. Commodi aliquam recusandae voluptates dolorem sint et libero. Rerum consequatur atque occaecati velit dolorem. Amet praesentium animi atque quod. Aut aut fuga quia nobis aspernatur eos doloremque assumenda. Molestias quae rem animi. Esse atque inventore ratione et iusto aliquam. Est eum nam aut molestias consectetur voluptate. Voluptas sunt et maiores et. Id id minima ea. Maxime doloremque libero veritatis et ea. Occaecati optio est inventore laboriosam. Magni ipsa omnis neque minima ipsam. Accusamus perferendis occaecati autem consequatur hic harum voluptas. Dolore voluptas ab et sunt dolor assumenda quia odit. Quasi eaque enim voluptates impedit unde corrupti quasi minima. Unde tempore delectus error voluptatem inventore aperiam nihil doloremque.",
    thumbnail: "https://angularbooks.com/img/angular4/img3.jpg",
    imageLink: "https://angularbooks.com/img/angular4/img3-1.jpg",
    user_id: 4,
  }
]
```

# ADD VERSIONING

---

- Open api.php
- Erase all and replace with:

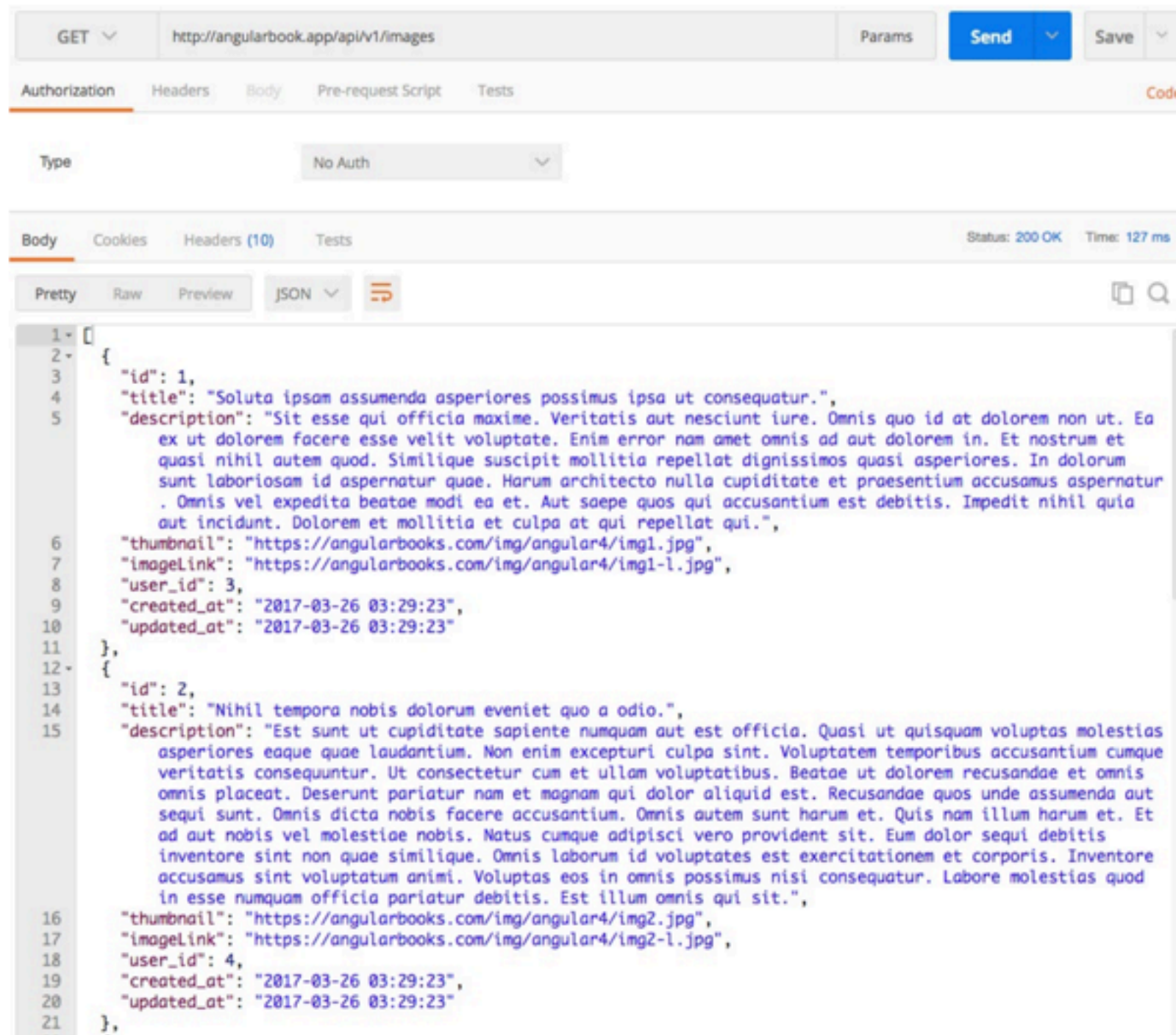
```
Route::group(['prefix' => 'v1'], function(){  
    Route::resource('images', 'ImagesController');  
});
```



# TESTING WITH POSTMAN

.....

- Open google chrome install postman



# ADDING CORS

---

- CROSS ORIGIN RESOURCE SHARING
- Without it the server will not respond to other apps
- Run `php artisan make:middleware Cors`
- Next update `app/Http/Middleware/Cors.php`

# CORS.PHP

---

```
<?php

namespace App\Http\Middleware;

use Closure;

class Cors
{
    /**
     * Handle an incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param \Closure $next
     * @return mixed
     */
    public function handle($request, Closure $next)
    {
        return $next($request)
            ->header('Access-Control-Allow-Origin', '*')
            ->header('Access-Control-Allow-Methods', 'GET, POST, PUT, DELETE, OPTIONS')
    }
}
```



# OPEN APP/HTTP/KERNEL.PHP AND ADD CORS

---

```
protected $routeMiddleware = [  
    'auth' => \Illuminate\Auth\Middleware\Authenticate::class,  
    'auth.basic' => \Illuminate\Auth\Middleware\AuthenticateWithBasicAuth::class,  
    'bindings' => \Illuminate\Routing\Middleware\SubstituteBindings::class,  
    'can' => \Illuminate\Auth\Middleware\Authorize::class,  
    'guest' => \App\Http\Middleware\RedirectIfAuthenticated::class,  
    'throttle' => \Illuminate\Routing\Middleware\ThrottleRequests::class,  
    'cors' => \App\Http\Middleware\Cors::class,  
];
```

# ENABLE CORS FOR ROUTES

---

```
Route::group(['prefix' => 'v1', 'middleware' => 'cors'], function(){  
    Route::resource('images', 'ImagesController');  
});
```

# OR ANOTHER OPTION

---

- Run the command

```
composer require barryvdh/laravel-cors
```

- In config/app.php add in providers

```
Barryvdh\Cors\ServiceProvider::class,
```

- Open api.php and change

```
Route::group(['prefix' => 'v1', 'middleware' => 'cors'], function(){  
    Route::resource('images', 'ImagesController');  
});
```

- Open app/Http/Kernel.php

- Add 'cors' => \Barryvdh\Cors\HandleCors::class, //  
\$routeMiddleware

# UPDATE API.PHP ROUTE

---

➤ code:

```
Route::group(['prefix' => 'v1', 'middleware' => 'cors'], function() {  
    Route::resource('images', 'ImagesController');  
});
```

# TEST SITE AGAIN

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➤ `http://localhost:8000/api/v1/images`

**END OF PART 10**