

# Construa uma API em PHP com o Laravel em pouco tempo



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#### Iniciando nosso projeto

```
git clone https://github.com/diegomengarda/saci2019-api-start.git
cd saci2019-api/
./composer.phar create-project --prefer-dist laravel/laravel api "5.8.*"
cd api && touch database/database.sqlite
```

#### Iniciando nosso projeto / explicando...

```
# Clonar o repositório do git
git clone https://github.com/diegomengarda/saci2019-api.git
# Entrar na pasta criada após o git clone
cd saci2019-api/
# Rodar o comando que cria um projeto laravel na versão 5.8
./composer.phar create-project --prefer-dist laravel/laravel api "5.8.*"
# Rodar o comando para criamos o nosso arquivo do banco de dados
cd api && touch database/database.sqlite
```

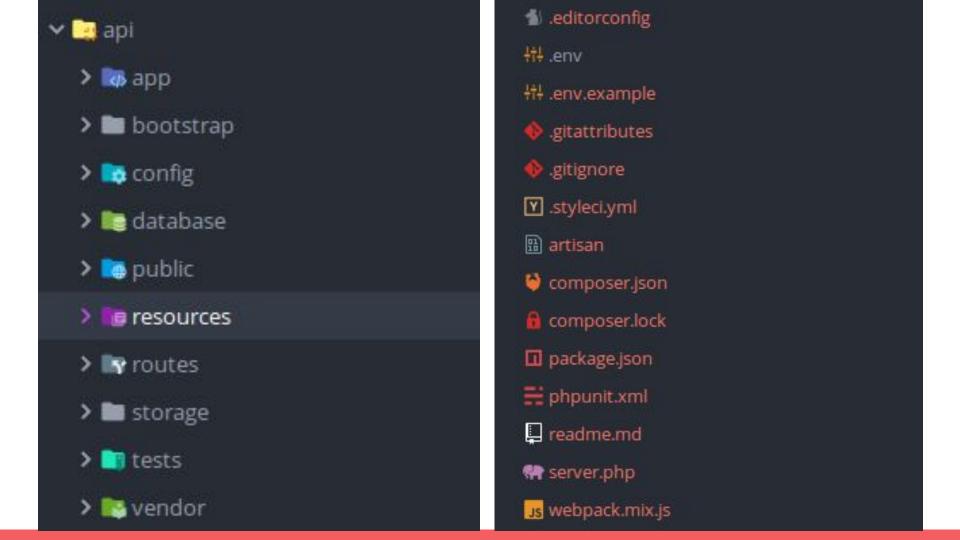
#### O que vamos abordar

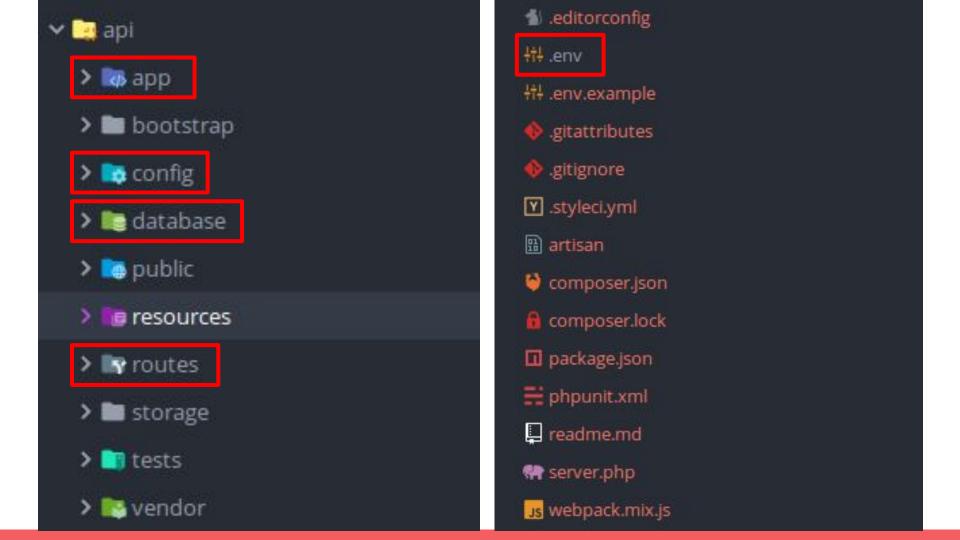
- PHP/Laravel 5.8;
- Conceitos de aplicações web;
- Comunicação entre cliente -> servidor;
- Arquitetura MVC.

#### O que vamos abordar

- API Rest (GET, POST, PUT, DELETE);
- Composer;
- JSON;
- \*Autenticação com JWT;

## Estrutura de pastas





#### Explicando o Laravel

- Models;
- Controllers;
- Migrations;
- Routes.

#### Criando o Model, Migration e Controller

```
# Comando para criar o Model e a Migration
php artisan make:model Student --migration
```

```
# Comando para criar o Controller
```

# A flag --api serve para que o controller já seja criado com os métodos base para uma API Rest

php artisan make:controller StudentController --api

## Model

```
M StudentController.php × M Student.php ×
       <?php
       namespace App;
       use Illuminate\Database\Eloquent\Model;
       class Student extends Model
```

```
<?php
     namespace App;
     use Illuminate\Database\Eloquent\Model;
     class Student extends Model
         protected $fillable = [
             'first_name',
             'last_name',
             'nickname',
             'age',
             'instagram',
             'facebook'
         ];
```

## Controller

```
StudentController.php ×
      use Illuminate\Http\Request;
      class StudentController extends Controller
          public function index()
              return response([]);
          public function store(Request $request)
          public function show(int $studentId)
          public function update(Request $request, int $studentId)
          public function destroy(int $studentId)
```

```
public function index()
    $students = Student::all();
    return response($students);
```

```
public function store(Request $request)
   $data = $request→all();
   $student = new Student();
   $student→fill($data);
   $student→save();
    return response($student);
```

```
public function show(int $studentId)
{
    $student = Student::find($studentId);
    if (!$student) {
        return response(['error' \Rightarrow 'Student not found'], 400);
    }
    return response($student);
```

```
public function update(Request $request, int $studentId)
   $student = Student::find($studentId);
    if (!$student) {
        return response(['error' ⇒ 'Student not found'], 400);
   $data = $request→all();
    $student→fill($data);
   $student→save();
    return response($student);
```

```
public function destroy(int $studentId)
    $student = Student::find($studentId);
    if (!$student) {
        return response(['error' \Rightarrow 'Student not found'], 400);
    $student → delete();
    return response(['message' ⇒ 'Student deleted']);
```

# Migration

```
public function up()
{
    Schema::create('students', function (Blueprint $table) {
        $table→bigIncrements('id');
        $table→timestamps();
    });
}
```

```
public function up()
   Schema::create('students', function (Blueprint $table) {
       $table→bigIncrements('id');
       $table→string('first_name');
       $table→string('last name');
       $table→string('nickname')→nullable();
       $table→smallInteger('age');
       $table→string('instagram')→nullable();
       $table→string('facebook')→nullable();
       $table→timestamps();
   });
```

## Routes

```
// Lista todos estudantes
Route::get('student', 'StudentController@index');
// Cria um novo estudante
Route::post('student', 'StudentController@store');
Route::get('student/{studentId}', 'StudentController@show');
// Atualiza os dados de um estudante
Route::put('student/{studentId}', 'StudentController@update');
// Remove um estudante
Route::delete('student/{studentId}', 'StudentController@destroy');
```

#### Referências

https://laravel.com/docs/5.8

https://medium.com/tableless/entendendo-tokens-jwt-json-web-token-413c 6d1397f6

Repo Principal: https://github.com/diegomengarda/saci2019-api-start

Repo API: https://github.com/diegomengarda/saci2019-api

Repo API - Auth JWT: https://github.com/diegomengarda/saci2019-api-auth

#### **Extra**

Autenticação utilizando o **JWT** 

### **Obrigado!**

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