API RES LARAVEL

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Análisis y Desarrollo de software

ADSO

Bogotá D.C

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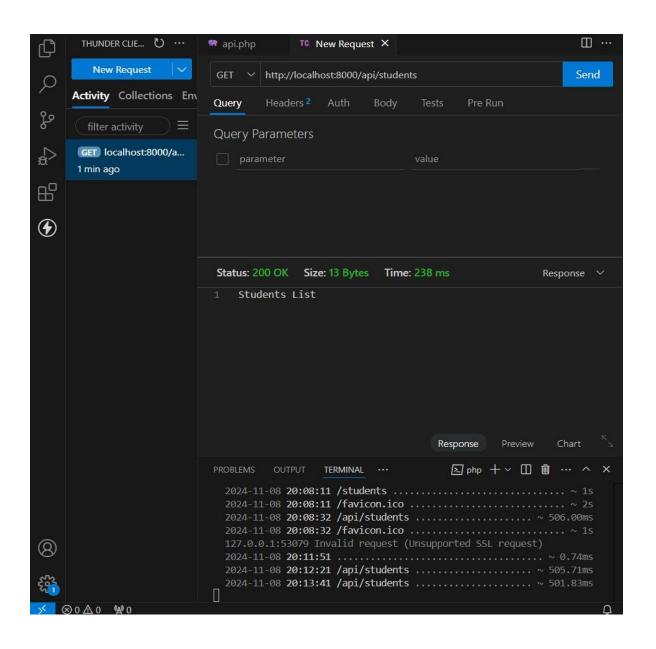
Instalación de paquetes api en laravel

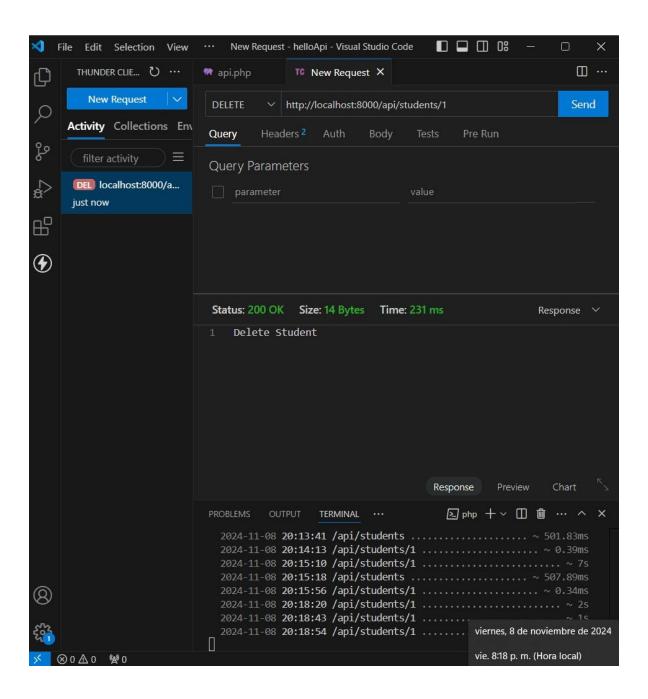
Migración de base de datos

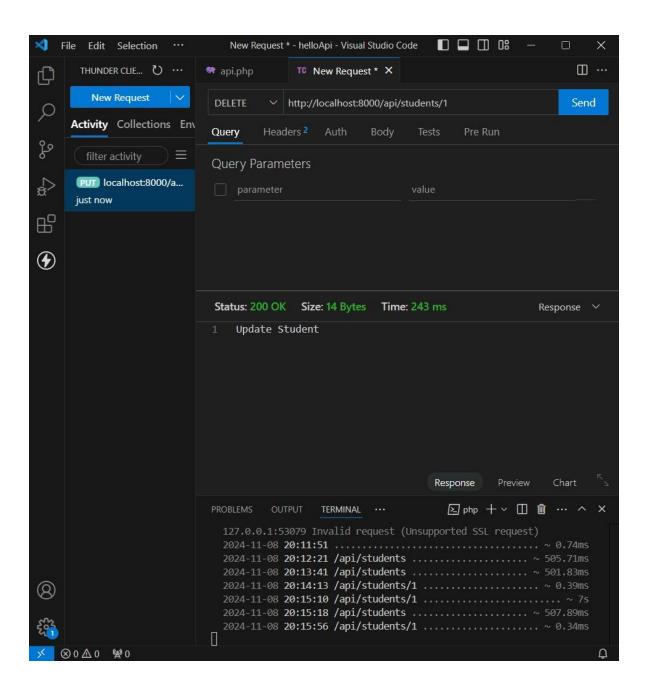
Peticiones

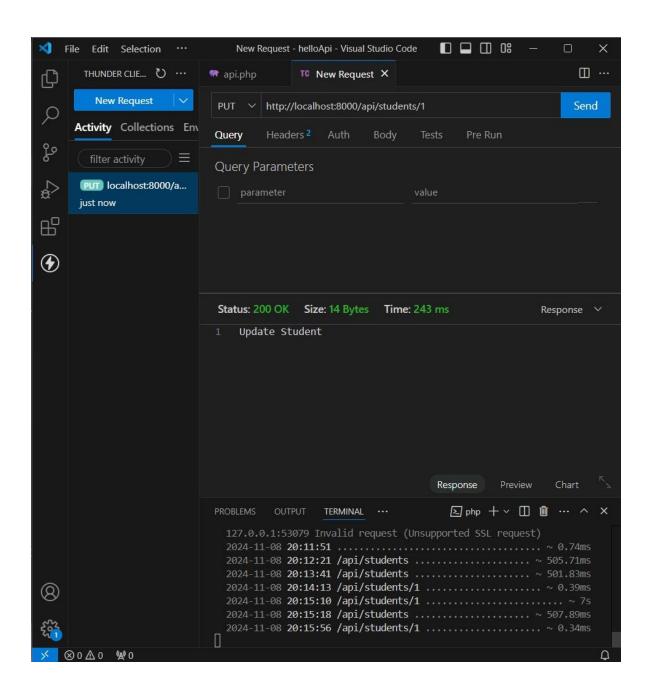
```
routes > 👭 api.php
      <?php
      use Illuminate\Http\Request;
      use Illuminate\Support\Facades\Route;
  6 > Route::get('/students', function (){
           return 'Students List';
      });
  9 ~ Route::get('/students', function (){
           return 'Getting a Student';
 11
       });
 12 > Route::post('/students', function (){
          return 'Create Students';
       1);
 15 > Route::put('/students/{id}', function (){
           return 'Update Student';
 17
      });
 19 > Route::delete('/students', function (){
           return 'Delete Student';
 21
      });
```

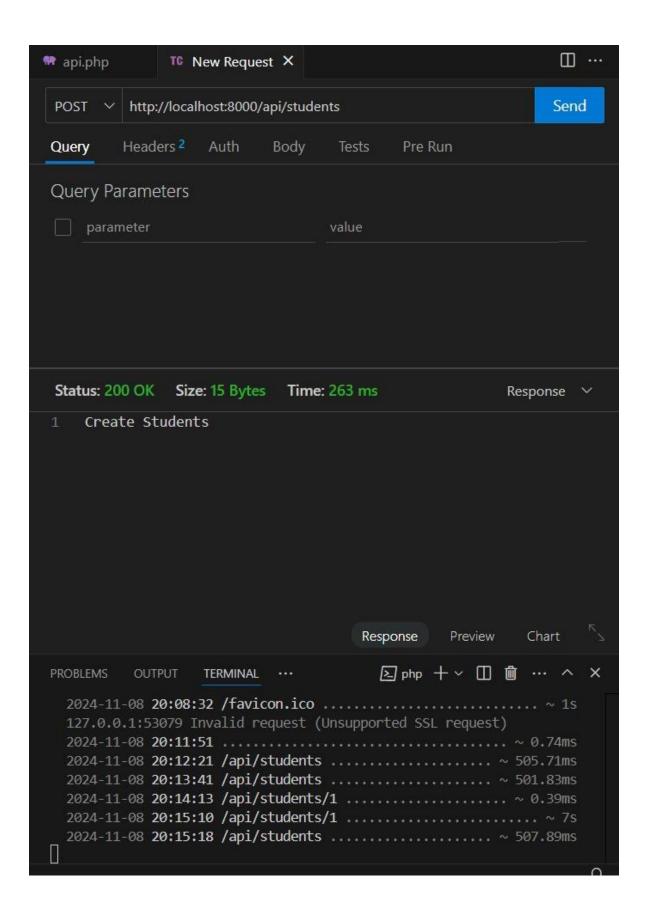
Pruebas peticiones

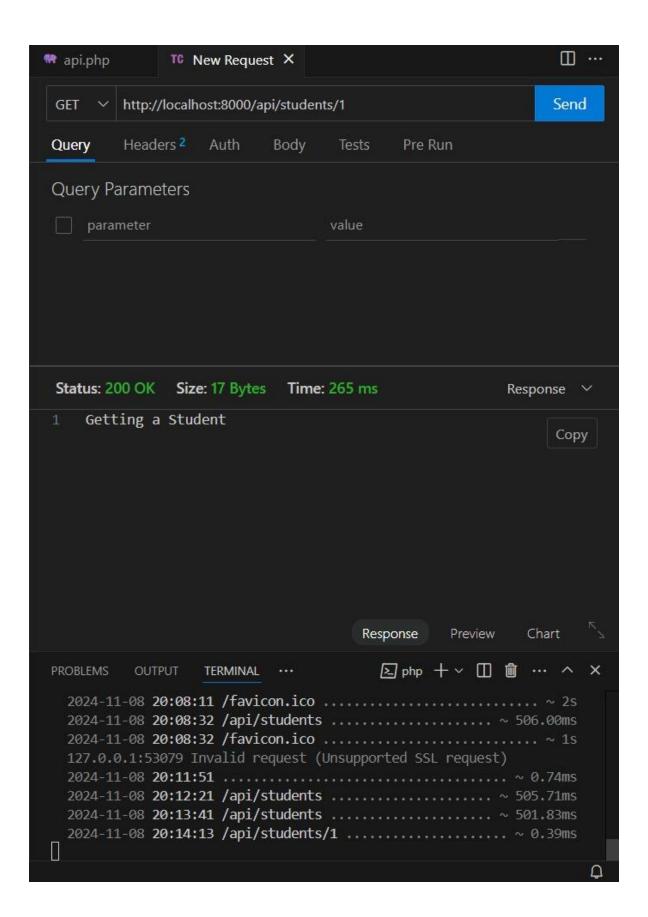




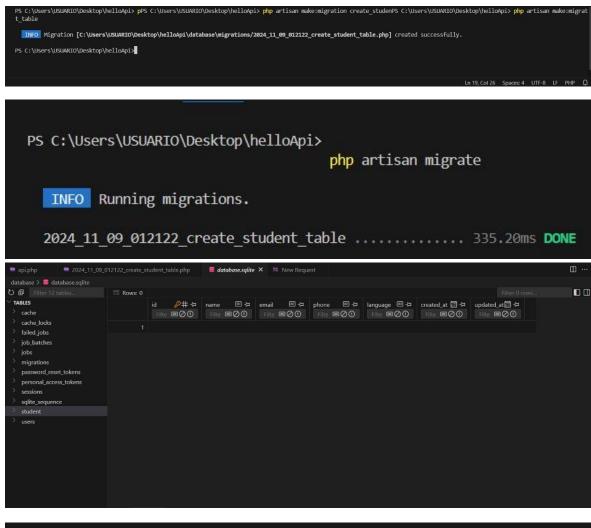








Creación de tabla



PS C:\Users\USUARIO\Desktop\helloApi> php artisan make:model Student

INFO Model [C:\Users\USUARIO\Desktop\helloApi\app\Models\Student.php] created successfully.

Creación de modelo studens

Listar datos

```
V HELLOAPI
                          app > Http > Controllers > 📅 studentController.php
 ∨ app

∨ Http \ Controllers

                                 namespace App\Http\Controllers;
   Controller.php
   ** studentController....
                                 use Illuminate\Http\Request;

∨ Models

                                 use App\Models\Student;
   M Student.php
                                 class studentController extends Controller
   User.php
                                      public function index()
  > Providers
 > bootstrap
                                          $students = Student::all();
 > config

✓ database

                                          $data = [
   > factories
                                               'student' => $students,
                                               'status' => 200

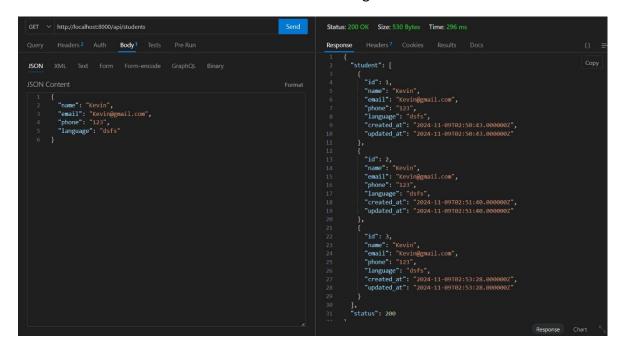
→ migrations

   ** 0001_01_01_00000...
   ** 0001_01_01_00000...
                                          return response() -> json($data,200);
   ** 0001_01_01_00000...
                           19
   2024_11_09_00343...
```

Agregar Registros

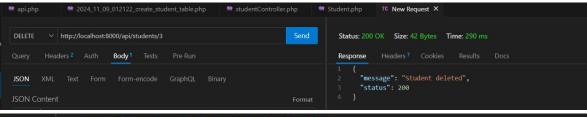
```
m api,php
              app > Http > Controllers > 🖛 studentController.php
     class studentController extends Controller
          public function index()
              $students = Student::all();
              $data = [
                 'student' => $students,
                 'status' => 200
              return response() -> json($data,200);
          public function store(Request $request)
              $validator = Validator::make($request->all(),[
                 'name' => 'required',
                 'email' => 'required|email',
                 'phone' => 'required',
                 'language' => 'required'
              1);
              if($validator->fails()){
                  $data=[
                      'message' => 'Error data validation',
                     'errors' => $validator->errors(),
                     'status' => 400
                  return response()->json($data, 400);
              $student = Student::create([
                 'name' => $request->name,
                  'email' => $request ->email,
                  'phone' => $request ->phone,
                  'language' => $request ->language,
              if(!$student){
                 $data =[
                      'message' => 'Error create student',
                     'status' => 500
                 return response()->json($data,500);
              $data = [
                  'student' => $student,
                  'status' =>201
              return response ()->json($data,201);
 61
```

Consultar todos los registros



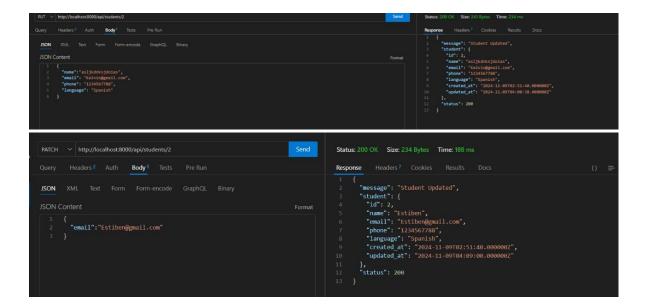
Consultar registro especifico

Eliminar registros



Actualizar registros

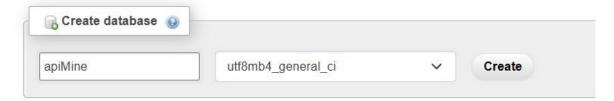
```
public function update(request $request, $id){
              $student= Student::find($id);
              if(!$student){
                  $data = [
                       'message' => 'Student not found',
                       'status'=> 404
                  return response()->json($data,404);
              $validator = Validator::make($request->all(),[
                  'email' => 'required|email|unique:student',
                   'phone' => 'required|digits:10',
                   'language' => 'required|in:English,Spanish'
              if($validator->fails()){
122
                  $data=[
                       'message' => 'Error data validation',
                       'errors' => $validator->errors(),
'status' => 400
                  return response()->json($data,400);
              $student->name = $request->name;
              $student->email = $request->email;
              $student->phone = $request->phone;
              $student->language = $request->language;
              $student->save();
              $data = [
                  'message'=>'Student Updated',
                   'student'=>$student,
                   'status'=>200,
              return response()->json($data,200);
```



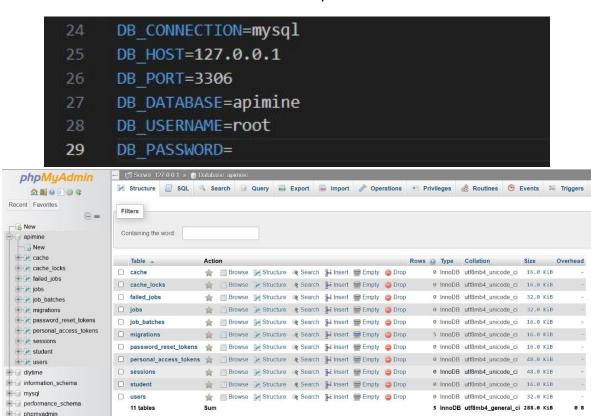
Actualizar registros con patch

```
public function update(request $request, $id){
          public function updatePartial(request $request, $id){
              $student= Student::find($id);
              if(!$student){
                  $data = [
                       'message' => 'Student not found',
                      'status'=> 404
                  return response()->json($data,404);
              $validator = Validator::make($request->all(),[
                   'email' => 'email|unique:student',
                   'phone' => 'digits:10',
                   'language' => 'in:English,Spanish'
              if($validator->fails()){
                  $data=[
                      'errors' => $validator->errors(),
'status' => 400
                   return response()->json($data,400);
              if($request->has('name')){
                  $student->name = $request->name;
              if($request->has('email')){
                  $student->email = $request->email;
              if($request->has('phone')){
                  $student->phone = $request->phone;
              if($request->has('language'))
                  $student->language = $request->language;
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              $student->save();
              $data = [
                  'message'=>'Student Updated',
                   'student'=>$student,
                   'status'=>200,
              return response()->json($data,200);
```

Creación de la base de datos en MySQL



Tablas de MySQL



Inserción de MySQL

