

Sprawozdanie

Rodzaj zajęć i nazwa przedmiotu

Podstawy Informatyki

Rok akademicki	Miasto	Tryb	Kierunek	Semestr	Prowadzący	Grupa
2023/24	K	S	IP	1	DJ	4

Termin oddania ćwiczenia

Data	Godzina
15.01.2024	15:30-17:45

Temat ćwiczenia

Zadanie REST API oparte na frameworku Laravel
(PHP)

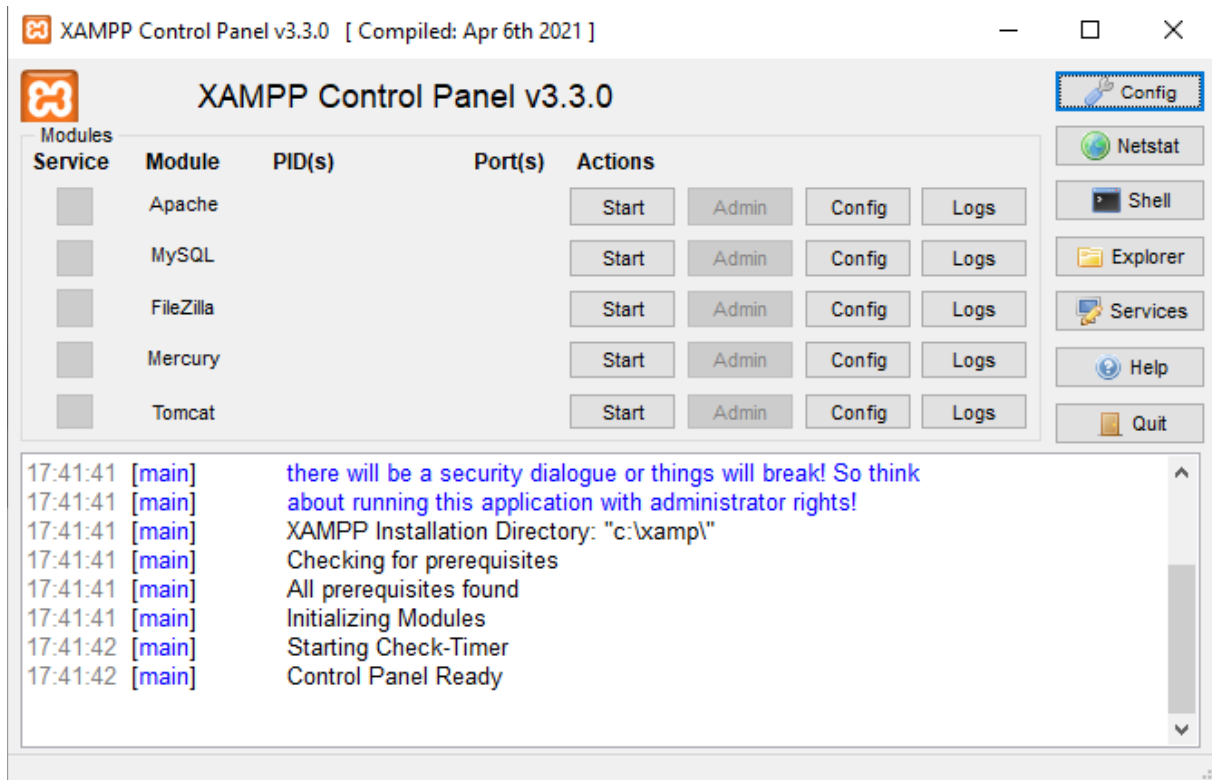
Numer albumu	Imię i nazwisko
310794	Damian Sobczyk



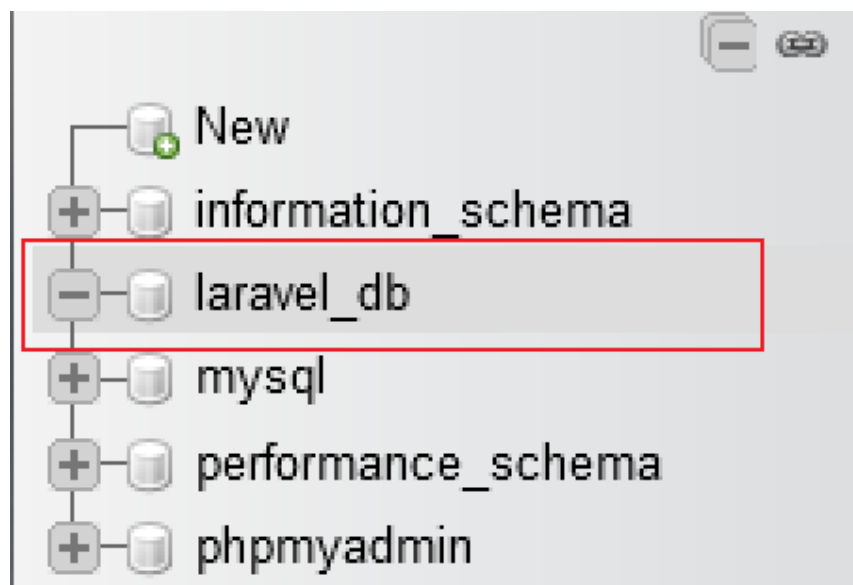
Politechnika
Śląska

https://github.com/DSobczyk2003/REST_API_LARAVEL_IPPP.git

Instalacja pakietu XAMPP:



Stworzenie bazy danych w PhpMyAdmin:



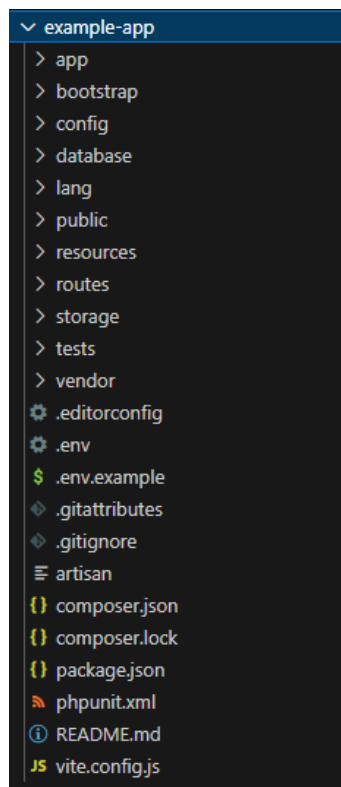
Instalacja Composera:

```
Wiersz polecenia
Microsoft Windows [Version 10.0.19045.3930]
(c) Microsoft Corporation. Wszelkie prawa zastrzeżone.

C:\Users\damia>composer -v

Composer version 2.6.6 2023-12-08 18:32:26
```

Pliki powstałe w wyniku instalacji:



Konfiguracja pliku .env:

```
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=laravel_db
15 DB_USERNAME=damian
16 DB_PASSWORD=
17
18 BROADCAST_DRIVER=log
19 CACHE_DRIVER=file
20 FILESYSTEM_DISK=local
21 QUEUE_CONNECTION=sync
```

Konfiguracja metod w pliku kontrolera:

Wyświetlanie wszystkich rekordów z bazy:

```
public function index()
{
    $users = User::all();
    if (!$users) {
        return response()->json(['message' => 'No records found'], 404);
    }
    return response()->json($users);
}
```

Zapisywanie dodatkowych danych wybranych przez użytkownika:

```
public function store(Request $request)
{
    $user = User::create($request->all());
    return response()->json($user, 201);
}
```

*Metoda wyświetla wybrany rekord z tabeli:
Filtracja odbywa się po ID*

```
public function show(int $id)
{
    $user = User::find($id);
    if (!$user) {
        return response()->json(['message' => 'Record does not exist'], 404);
    }
    return response()->json($user);
}
```

Metoda aktualizująca rekord:

```
public function update(Request $request, int $id)
{
    $user = User::find($id);
    if (!$user) {
        return response()->json(['message' => 'Record does not exist'], 404);
    }

    $user = User::find($id);

    if ($request->has('name')) {
        $user->name = $request->name;
    }
    if ($request->has('surname')) {
        $user->surname = $request->surname;
    }
    if ($request->has('phone_number')) {
        $user->phone_number = $request->phone_number;
    }
    if ($request->has('street')) {
        $user->street = $request->street;
    }
    if ($request->has('country')) {
        $user->country = $request->country;
    }
    $user->save();
    return response()->json($user);
}
```

Metoda kasująca:

```
public function destroy(int $id)
{
    $user = User::find($id);
    if (!$user) {
        return response()->json(['message' => 'Record does not exist'], 404);
    }
    $user->delete();
    return response()->json(["message" => "User with id[$id] deleted"], 200);
}
```

Konfiguracja FAKERA, który uzupełnia tabelę losowymi danymi.

```
<?php

namespace Database\Seeders;

use Illuminate\Database\Seeder;
use Faker\Factory as Faker;

class PeopleTableSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {
        $faker = Faker::create();

        for ($i = 0; $i < 200; $i++) {
            \DB::table('people')->insert([
                'name' => $faker->firstName,
                'surname' => $faker->lastName,
                'phone_number' => $faker->phoneNumber,
                'street' => $faker->streetAddress,
                'country' => $faker->country,
            ]);
        }
    }
}
```

Terminal:

```
PS C:\XAMP\htdocs\damian-app\example-app> php artisan db:seed

  INFO  Seeding database.

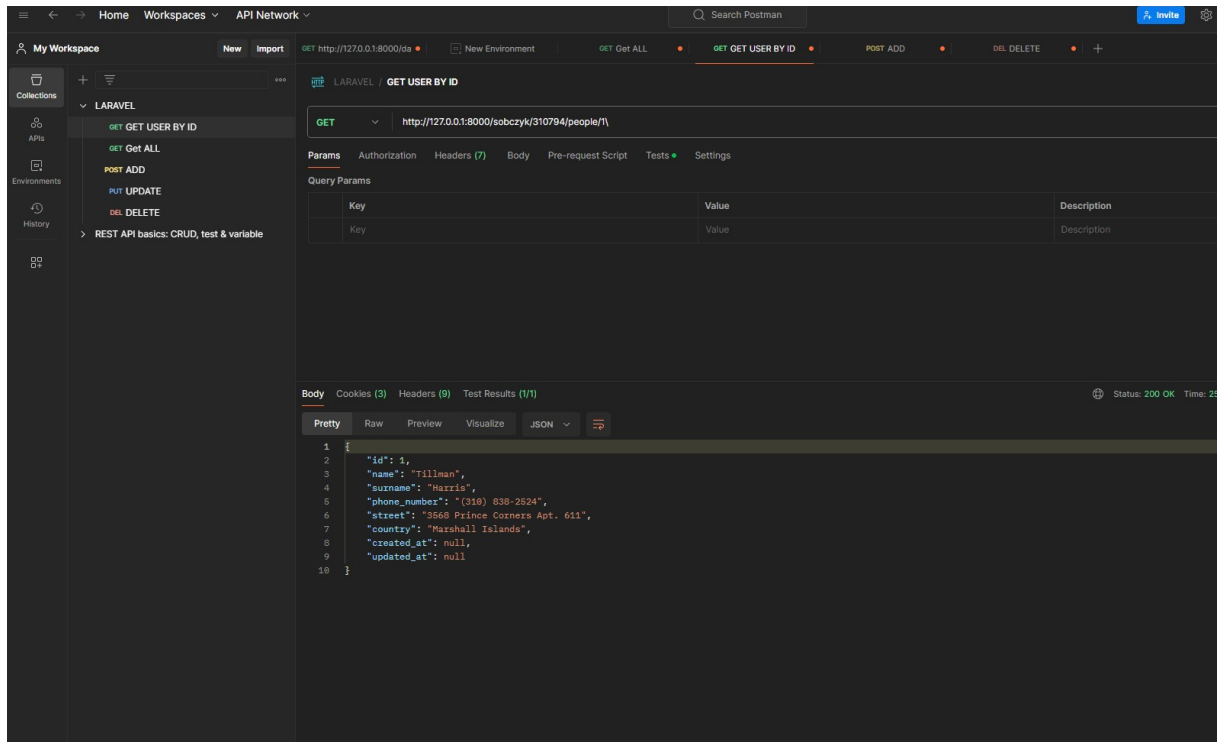
Database\Seeders\PeopleTableSeeder ..... RUNNING
Database\Seeders\PeopleTableSeeder ..... 569.17 ms DONE

PS C:\XAMP\htdocs\damian-app\example-app> |
```

Tabela powstała w wyniku migracji:

```
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  require_once 'vendor/autoload.php';
8
9  return new class extends Migration
10 {
11     /**
12      * Run the migrations.
13      */
14     public function up(): void
15     {
16         Schema::create('people', function (Blueprint $table) {
17             $table->increments('id');
18             $table->string('name');
19             $table->string('surname');
20             $table->string('phone_number');
21             $table->string('street');
22             $table->string('country');
23             $table->timestamps();
24         });
25     }
26
27     /**
28      * Reverse the migrations.
29      */
30     public function down(): void
31     {
32         Schema::dropIfExists('people');
33     }
34 };
35
```

GET USER BY ID



Wszystkie rekordy:

