### **Laravel Lumen**

Modul – 1 Database – Instalasi – Konfigurasi – Model – Route – Controller – Uji coba API (Postman)

#### Database & Tabel

- Database: json
- Struktur tabel "wisata"

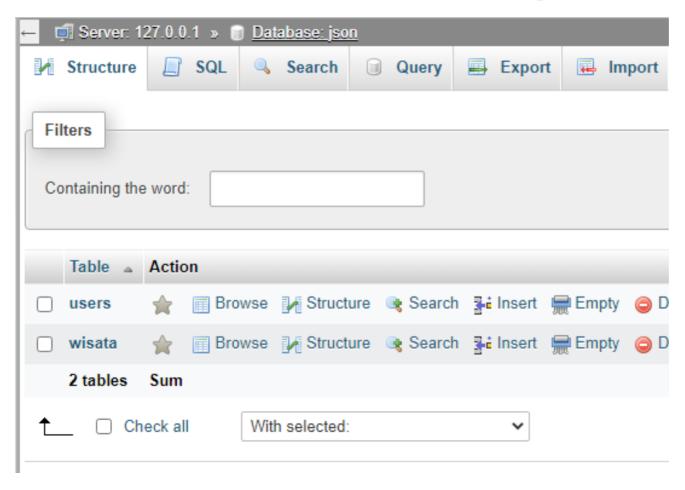


id\_wisata = primary\_key & Auto Increment

# Isi tabel

KOTA	LANDMARK	TARIF
SEMARANG	LAWANG SEWU	20000
YOGYAKARTA	PRAMBANAN	35000
MAGELANG	BOROBUDUR	45000
SURAKARTA	PGS	GRATIS

# Database 'json'



#### instalasi

 c:\xampp\php\php composer.phar create-project -prefer-dist laravel/lumen wisata

```
Command Prompt
                                                                                                                 П
c:\framework>c:\xampp\php\php composer.phar create-project --prefer-dist laravel/lumen wisata
 nfo from https://repo.packagist.org: #StandWithUkraine
annot use laravel/lumen's latest version v9.0.0 as it requires php ^8.0 which is not satisfied by your platform.
 - Downloading laravel/lumen (v8.1.2)
 - Installing laravel/lumen (v8.1.2): Extracting archive
 reated project in C:\framework\wisata
 @php -r "file_exists('.env') || copy('.env.example', '.env');"
pdating dependencies
 ock file operations: 103 installs, 0 updates, 0 removals
 - Locking brick/math (0.9.3)
 - Locking doctrine/inflector (2.0.5)
 - Locking doctrine/instantiator (1.4.1)
 - Locking doctrine/lexer (1.2.3)
 - Locking dragonmantank/cron-expression (v3.3.2)
 - Locking egulias/email-validator (2.1.25)
 - Locking fakerphp/faker (v1.20.0)
 - Locking graham-campbell/result-type (v1.1.0)
 - Locking hamcrest/hamcrest-php (v2.0.1)
 - Locking illuminate/auth (v8.83.24)
 - Locking illuminate/broadcasting (v8.83.24)
 - Locking illuminate/bus (v8.83.24)
 - Locking illuminate/cache (v8.83.24)
 - Locking illuminate/collections (v8.83.24)
 - Locking illuminate/config (v8.83.24)
 - Locking illuminate/console (v8.83.24)
 - Locking illuminate/container (v8.83.24
```

# Konfigurasi APP\_URL (.env)

```
wisata > 🌣 .env
  1 APP NAME=Lumen
  2 APP ENV=local
     APP KEY=
     APP DEBUG=true
      APP_URL=http://localhost:8000
     APP TIMEZONE=UTC
```

# Konfigurasi database (.env)

```
10
     DB CONNECTION=mysql
12
     DB HOST=127.0.0.1
13
     DB PORT=3306
     DB DATABASE=json
14
     DB USERNAME=root
15
16
     DB PASSWORD=
```

# Aktivasi fungsi Eloquent dan Facades file bootstrap/app.php

Uncomment baris berikut:

```
$\text{sapp} = new Laravel\Lumen\Application(}
dirname(__DIR__)
);

$\text{sapp} = new Laravel\Lumen\Application(}

\text{dirname(__DIR__)}

$\text{sapp} = new Laravel\Lumen\Apple \text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{sapp} = new Laravel\Lumen\Apple \text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{dirname(__DIR__)}

$\text{dir
```

## Menjalankan server

```
c:\framework\wisata>c:\xampp\php\php -S localhost:8000 -t public
[Sun Sep 25 05:26:25 2022] PHP 7.4.29 Development Server (http://localhost:8000) started
```



#### Buat model 'Wisata'

```
wisata > app > Models > 🦛 Wisata.php
  1 <?php
     namespace App\Models;
      use Illuminate\Database\Eloquent\Model;
      class Wisata extends Model
  6
  7
          protected $table = 'wisata';
          protected $primaryKey = 'id wisata';
  8
          public $timestamps = false;
  9
 10
 11
           * The attributes that are mass assignable.
 12
 13
           * @var array
 14
 15
           protected $fillable = [
 16
               'kota', 'landmark', 'tarif'
 17
 18
          1;
 19
           /**
 20
           * The attributes excluded from the model's JSON form.
 21
 22
           * @var array
 23
 24
 25
          protected $hidden = [];
 26
```

# Set up Routes

```
15
     $router->get('/', function () use ($router) {
16
17
         return $router->app->version();
18
     });
19
20
     $router->group(['prefix' => 'api'], function () use ($router) {
         $router->get('wisata', ['uses' => 'WisataController@showAll']);
21
         $router->get('wisata/{id}', ['uses' => 'WisataController@showOne']);
22
         $router->post('wisata', ['uses' => 'WisataController@create']);
23
         $router->delete('wisata/{id}', ['uses' => 'WisataController@delete']);
24
         $router->put('wisata/{id}', ['uses' => 'WisataController@update']);
25
       });
26
27
```

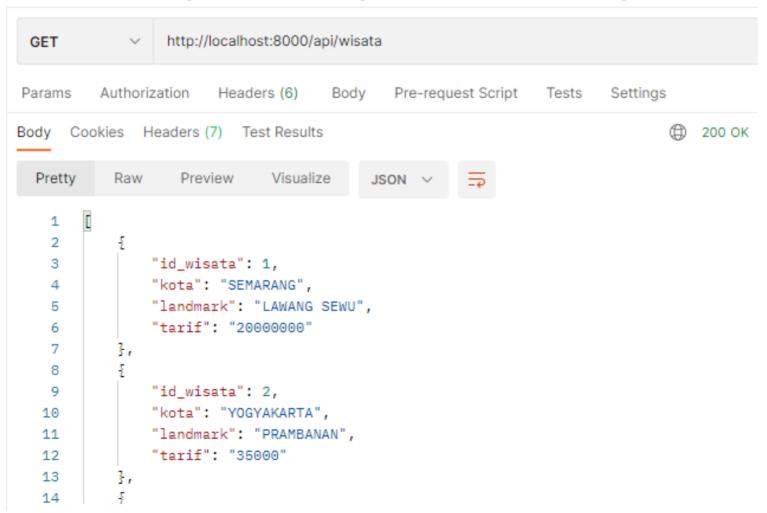
#### Create Controller 'WisataController.php'

```
wisata > app > Http > Controllers > 🦬 WisataController.php
       <?php
       namespace App\Http\Controllers;
  4
       use Illuminate\Http\Request;
       use App\Models\Wisata;
  6
       class WisataController extends Controller
  8
           public function showAll()
 10
 11
 12
               return response()->json(Wisata::all());
 13
 14
 15
           public function showOne($id)
 16
 17
               return response()->json(Wisata::find($id));
 18
```

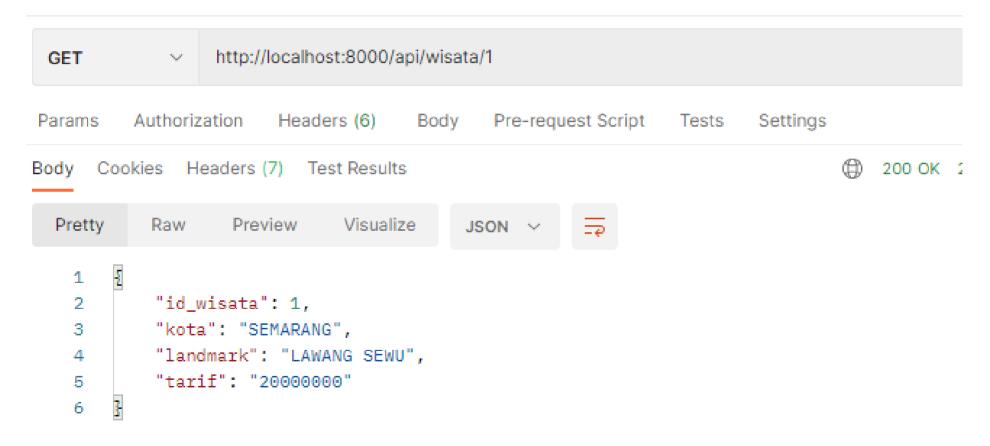
#### Controller 'WisataController.php' (lanjut)

```
19
         public function create(Request $request)
20
21
             $Wisata = Wisata::create($request->all());
22
23
24
             return response()->json($Wisata, 201);
25
26
27
         public function update($id, Request $request)
28
29
             $Wisata = Wisata::findOrFail($id):
             $Wisata->update($request->all());
30
31
32
             return response()->json($Wisata, 200);
33
34
35
         public function delete($id)
36
             Wisata::findOrFail($id)->delete();
37
             return response('Deleted Successfully', 200);
38
39
40
41
```

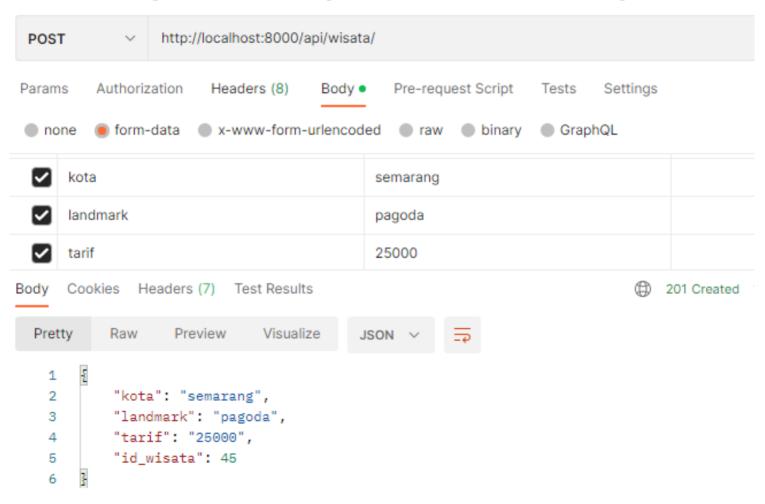
## Tampilan request GET: api/wisata



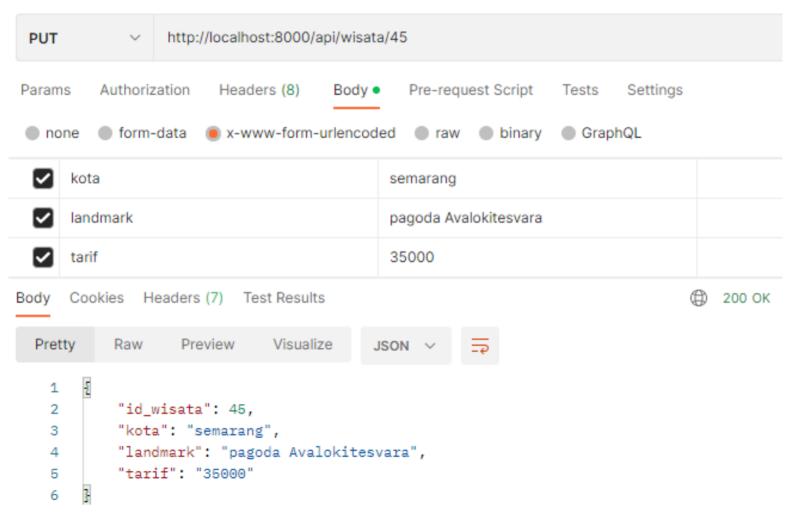
## Tampilan request GET: api/wisata/{id}



## Tampilan request POST: api/wisata/



## Tampilan request PUT: api/wisata/{id}



## Tampilan request DELETE: api/wisata/{id}

