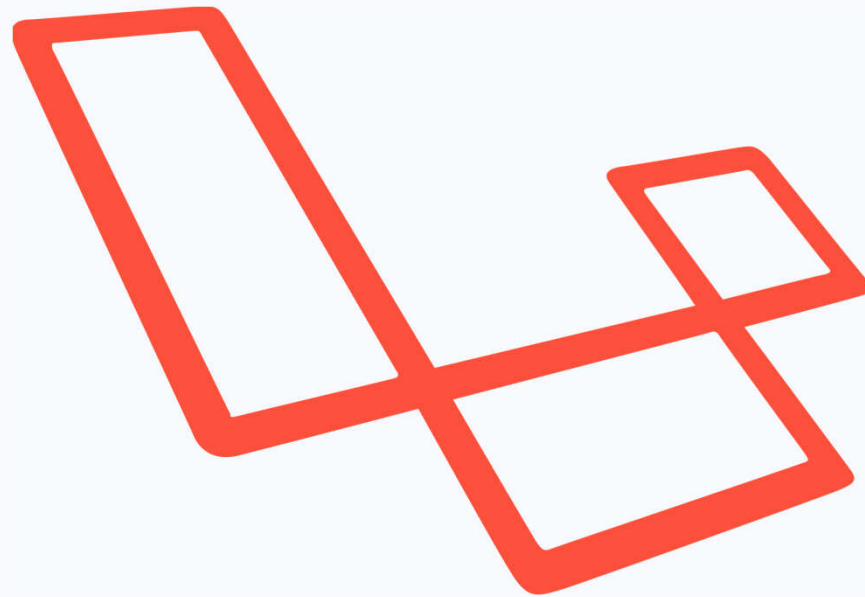


#PolinemaWeb

Model pada **Laravel**

Modern Php Web Framework



PENDAHULUAN

Pada praktikum kali ini anda akan mempelajari tentang konsep model pada framework Laravel termasuk koneksi ke database, schema migrations, seeder, dan caching.

Model

- bagian dari MVC yang bertanggung jawab untuk menangani representasi basis data (database)
- bertugas untuk melakukan query ke database, insert data baru, update, atau hapus record di database
- Laravel menggunakan Eloquent, sebuah *Object Relational Mapper* (ORM) yang memudahkan interaksi tabel database dengan Model yang berhubungan

Konfigurasi Koneksi Database

```
database.php X
config > database.php
45
46     'mysql' => [
47         'driver' => 'mysql',
48         'url' => env('DATABASE_URL'),
49         'host' => env('DB_HOST', '127.0.0.1'),
50         'port' => env('DB_PORT', '3306'),
51         'database' => env('DB_DATABASE', 'forge'),
52         'username' => env('DB_USERNAME', 'forge'),
53         'password' => env('DB_PASSWORD', ''),
54         'unix_socket' => env('DB_SOCKET', ''),
55         'charset' => 'utf8mb4',
56         'collation' => 'utf8mb4_unicode_ci',
57         'prefix' => '',
58         'prefix_indexes' => true,
59         'strict' => true,
60         'engine' => null,
61         'options' => extension_loaded('pdo_mysql') ? array_filter([
62             PDO::MYSQL_ATTR_SSL_CA => env('MYSQL_ATTR_SSL_CA'),
63         ]) : [],
64     ],
```

```
.env X
.env
9 DB_CONNECTION=mysql
10 DB_HOST=127.0.0.1
11 DB_PORT=3306
12 DB_DATABASE=laravel
13 DB_USERNAME=root
14 DB_PASSWORD=
```

Eloquent

```
php artisan make:model Post
```

```
php artisan make:model Post --migration
```

```
<?php
```

```
namespace App\Models;
```

```
use Illuminate\Database\Eloquent\Model;
```

```
class Post extends Model
```

```
{
```

```
}
```

Eloquent

Pendefinisian Tabel & Primary Key

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Model;

class Post extends Model
{
    protected $table = 'my_posts';
    protected $primaryKey = 'my_id';
    protected $keyType = 'string';
    public $incrementing = false;
}
```

Akses Data

<code>Post::all()</code>	Mengambil keseluruhan data pada tabel
<code>Post::where('slug', 'about-us') -> first()</code>	Mengambil data pertama yang ditemukan dengan slug bernilai about-us
<code>Post::paginate(5)</code>	Tampilkan data sebanyak 5 untuk setiap halaman (pagination)

Migration

- Version control untuk database
- Diletakkan dalam direktori database/migrations
- Setiap nama file migration akan ditambahkan informasi timestamp

```
php artisan make:migration create_posts_table
```


Migration

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

class CreatePostsTable extends Migration
{
    public function up()
    {
        Schema::create('posts', function (Blueprint $table) {
            $table->id();
            $table->string('title', 100)->index();
            $table->string('slug', 100)->index();
            $table->text('content');
            $table->boolean('draft')->default(false);
            $table->timestamps();
        });
    }

    public function down()
    {
        Schema::dropIfExists('posts');
    }
}
```

Seeding

- memberikan data awal ke database

```
php artisan make:seeder PostSeeder
```

```
php artisan db:seed --class=PostSeeder
```

Seeding

```
<?php
```

```
namespace Database\Seeders;
```

```
use Illuminate\Database\Seeder;
```

```
use Illuminate\Support\Facades\DB;
```

```
class PostSeeder extends Seeder
```

```
{
```

```
    public function run()
```

```
    {
```

```
        DB::table('posts')->insert([
```

```
            'title' => 'Belajar Model Dengan Laravel',
```

```
            'slug' => ' belajar-model-dengan-laravel',
```

```
            'image' => 'https://via.placeholder.com/640x480.png/00ff77?text=Belajar Model',
```

```
            'content' => 'Belajar Laravel itu menyenangkan',
```

```
            'draft' => 0
```

```
        ]);
```

```
    }
```

```
}
```

Banyak Seeder

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

```
php artisan db:seed
```

PRAKTEK

Kalo dah dibaca jangan diem langsung ngoding !!!

PERTANYAAN ?

Malu [bertanya](#) ? Sesat seumur hidup :v