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Matkul : Praktikum 1 Framework

1. Instalasi Laravel

```
C:\WINDOWS\system32\cmd.exe - php artisan serve
Microsoft Windows [Version 10.0.22631.5189]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo>cd C:\xampp\htdocs

C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel myapp2
Creating a "laravel/laravel" project at "../myapp2"
Installing laravel/laravel (v12.0.7)
- Installing laravel/laravel (v12.0.7): Extracting archive
Created project in C:\xampp\htdocs\myapp2
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 110 installs, 0 updates, 0 removals
- Locking brick/math (0.12.3)
- Locking carbonphp/carbon-doctrine-types (3.2.0)
- Locking dflydev/dot-access-data (v3.0.3)
- Locking doctrine/inflector (2.0.10)
- Locking doctrine/lexer (3.0.1)
- Locking dragonmantank/cron-expression (v3.4.0)
- Locking egulias/email-validator (4.0.4)
- Locking fakerphp/faker (v1.24.1)
- Locking filp/whoops (2.18.0)
- Locking fruitcake/php-cors (v1.3.0)
- Locking graham-campbell/result-type (v1.1.3)
- Locking guzzlehttp/guzzle (7.9.3)
- Locking guzzlehttp/promises (2.2.0)
- Locking guzzlehttp/psr7 (2.7.1)
- Locking guzzlehttp/uri-template (v1.0.4)
- Locking hamcrest/hamcrest-php (v2.0.1)
- Locking laravel/framework (v12.10.2)
- Locking laravel/pail (v1.2.2)
- Locking laravel/pint (v1.22.0)
- Locking laravel/prompts (v0.3.5)
- Locking laravel/sail (v1.41.1)
- Locking laravel/serializable-closure (v2.0.4)
- Locking laravel/tinker (v2.10.1)
- Locking league/commonmark (2.6.2)
- Locking league/config (v1.2.0)
- Locking league/flysystem (3.29.1)
- Locking league/flysystem-local (3.29.0)
- Locking league/mime-type-detection (1.16.0)
- Locking league/url (7.5.1)
```

```
Select C:\WINDOWS\system32\cmd.exe - php artisan serve
- Installing sebastian/code-unit-reverse-lookup (4.0.1): Extracting archive
- Installing phpunit/php-code-coverage (11.0.9): Extracting archive
- Installing phar-io/version (3.2.1): Extracting archive
- Installing phar-io/manifest (2.0.4): Extracting archive
- Installing myclabs/deep-copy (1.13.0): Extracting archive
- Installing phpunit/phpunit (11.5.18): Extracting archive
65 package suggestions were added by new dependencies, use `composer suggest` to see details.
Generating optimized autoload files
> illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

[INFO] Discovering packages.

laravel/pail ..... DONE
laravel/sail ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE

68 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

[INFO] No publishable resources for tag [laravel-assets].

No security vulnerability advisories found.
> @php artisan key:generate --ansi

[INFO] Application key set successfully.

> @php -r "file_exists('database/database.sqlite') || touch('database/database.sqlite');"
> @php artisan migrate --graceful --ansi

[INFO] Preparing database.

Creating migration table ..... 223.16ms DONE

[INFO] Running migrations.

0001_01_01_000000_create_users_table ..... 186.67ms DONE
0001_01_01_000001_create_cache_table ..... 13.85ms DONE
0001_01_01_000002_create_jobs_table ..... 75.79ms DONE
```

```
Select C:\WINDOWS\system32\cmd.exe - php artisan serve

Creating migration table ..... 223.16ms DONE
INFO Running migrations.
0001_01_01_000000_create_users_table ..... 186.67ms DONE
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0001_01_01_000002_create_jobs_table ..... 75.79ms DONE

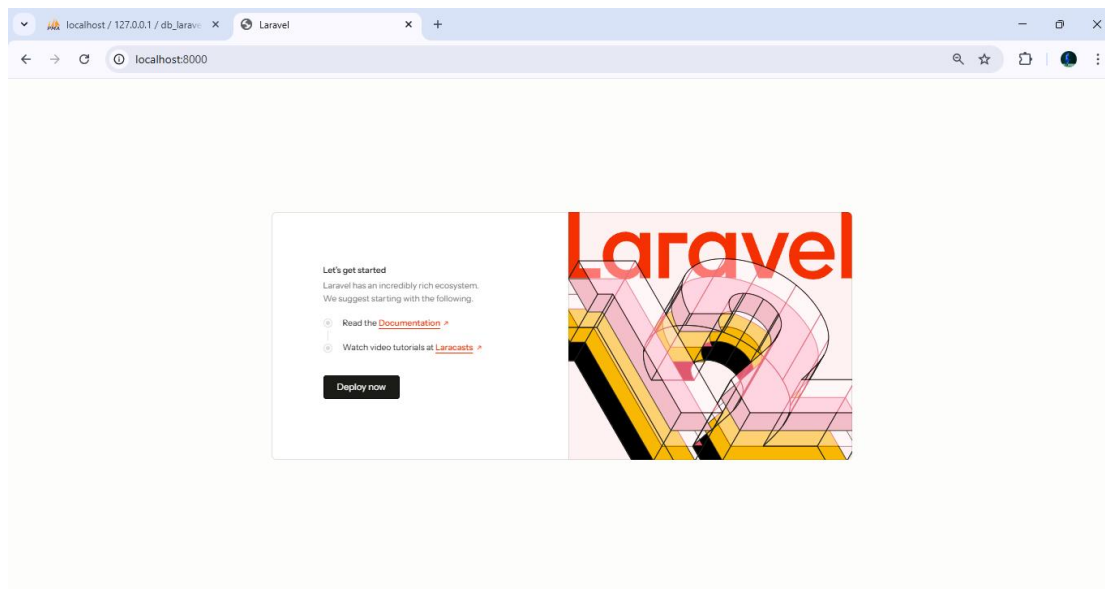
C:\xampp\htdocs>
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C:\xampp\htdocs>
C:\xampp\htdocs>
C:\xampp\htdocs>
C:\xampp\htdocs>
C:\xampp\htdocs>cd C:\xampp\htdocs\myapp2
C:\xampp\htdocs\myapp2>code .
C:\xampp\htdocs\myapp2>php artisan serve
INFO Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server

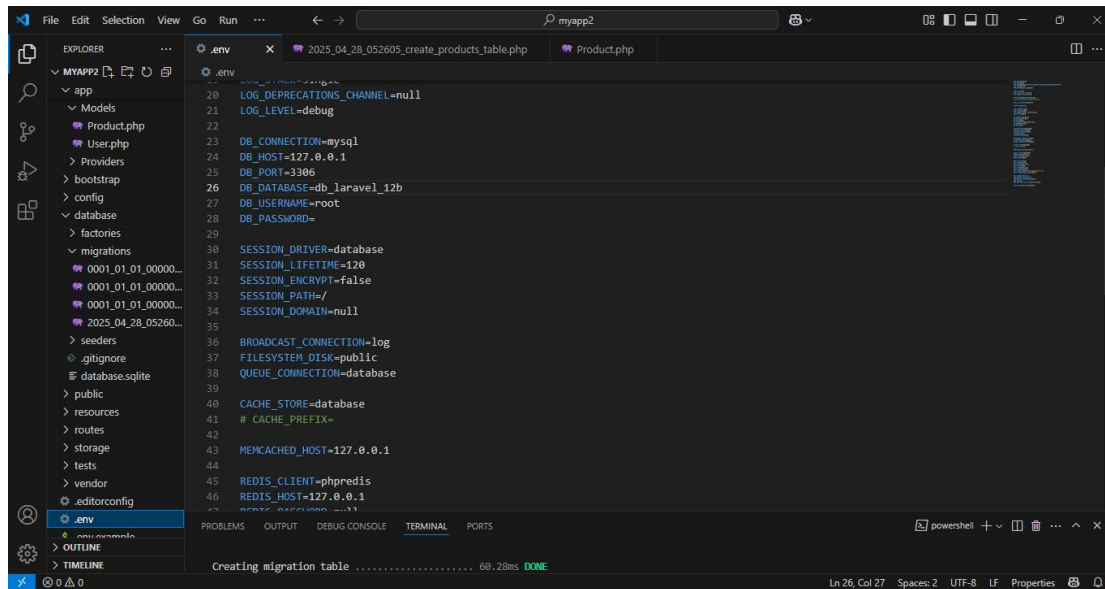
2025-04-28 12:22:11 / ..... ~ 5s
2025-04-28 12:22:17 ..... ~ 0.18ms
2025-04-28 12:22:17 ..... ~ 5.41ms
2025-04-28 12:22:17 /favicon.ico ..... ~ 3.89ms
2025-04-28 12:22:17 ..... ~ 4s

INFO Environment modified. Restarting server...
INFO Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server
```



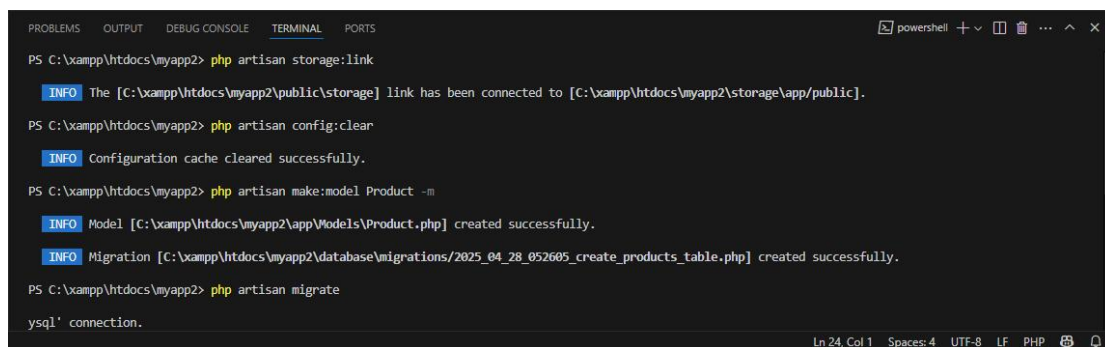
2. Konfigurasi File System



The screenshot shows the VS Code editor with the `.env` file open. The file contains configuration for a Laravel application, including database settings, session settings, and cache settings. The terminal at the bottom shows the command `php artisan storage:link` being executed, which successfully creates a symbolic link between the `public/storage` directory and the `storage/app/public` directory.

```
20 LOG_DEPRECATIONS_CHANNEL=null
21 LOG_LEVEL=debug
22
23 DB_CONNECTION=mysql
24 DB_HOST=127.0.0.1
25 DB_PORT=3306
26 DB_DATABASE=db_laravel_12b
27 DB_USERNAME=root
28 DB_PASSWORD=
29
30 SESSION_DRIVER=database
31 SESSION_LIFETIME=120
32 SESSION_ENCRYPT=false
33 SESSION_PATH=/
34 SESSION_DOMAIN=null
35
36 BROADCAST_CONNECTION=log
37 FILESYSTEM_DISK=public
38 QUEUE_CONNECTION=database
39
40 CACHE_STORE=database
41 # CACHE_PREFIX=
42
43 MEMCACHED_HOST=127.0.0.1
44
45 REDIS_CLIENT=phpredis
46 REDIS_HOST=127.0.0.1
47 REDIS_PASSWORD=null
48 REDIS_PORT=6379
```

Creating migration table 68.28ms DONE



The screenshot shows the VS Code terminal with the following commands and output:

```
PS C:\xampp\htdocs\myapp2> php artisan storage:link
INFO The [C:\xampp\htdocs\myapp2\public\storage] link has been connected to [C:\xampp\htdocs\myapp2\storage\app\public].

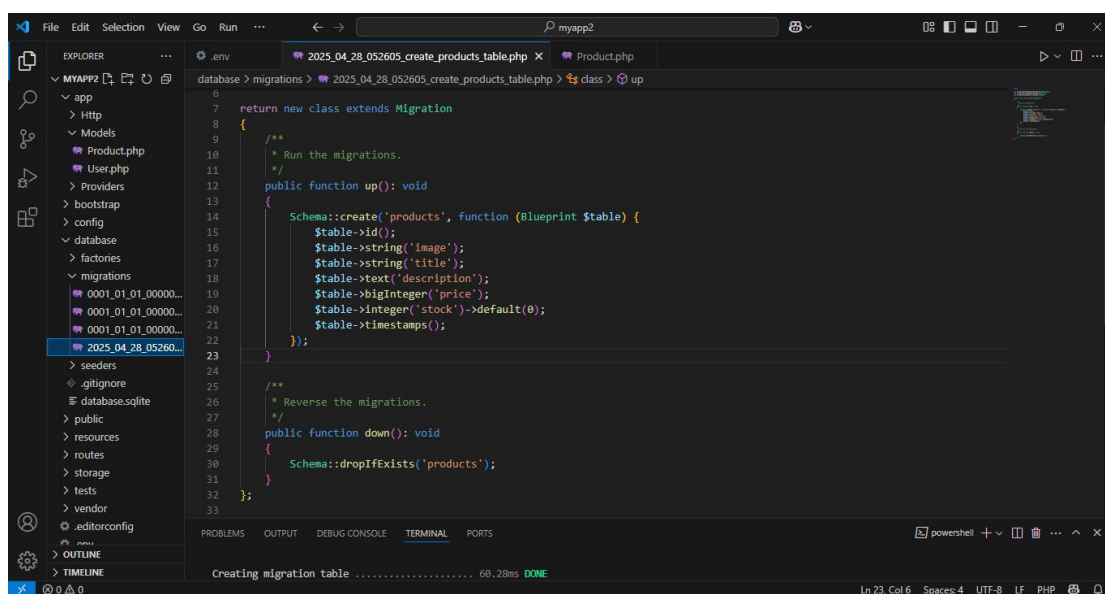
PS C:\xampp\htdocs\myapp2> php artisan config:clear
INFO Configuration cache cleared successfully.

PS C:\xampp\htdocs\myapp2> php artisan make:model Product -m
INFO Model [C:\xampp\htdocs\myapp2\app\Models\Product.php] created successfully.
INFO Migration [C:\xampp\htdocs\myapp2\database\Migrations\2025_04_28_052605_create_products_table.php] created successfully.

PS C:\xampp\htdocs\myapp2> php artisan migrate
mysql' connection.
```

3. Membuat Model dan Migration

- langkah 1 tambahkan codingan seperti dibawah ini dipublic function di database migration

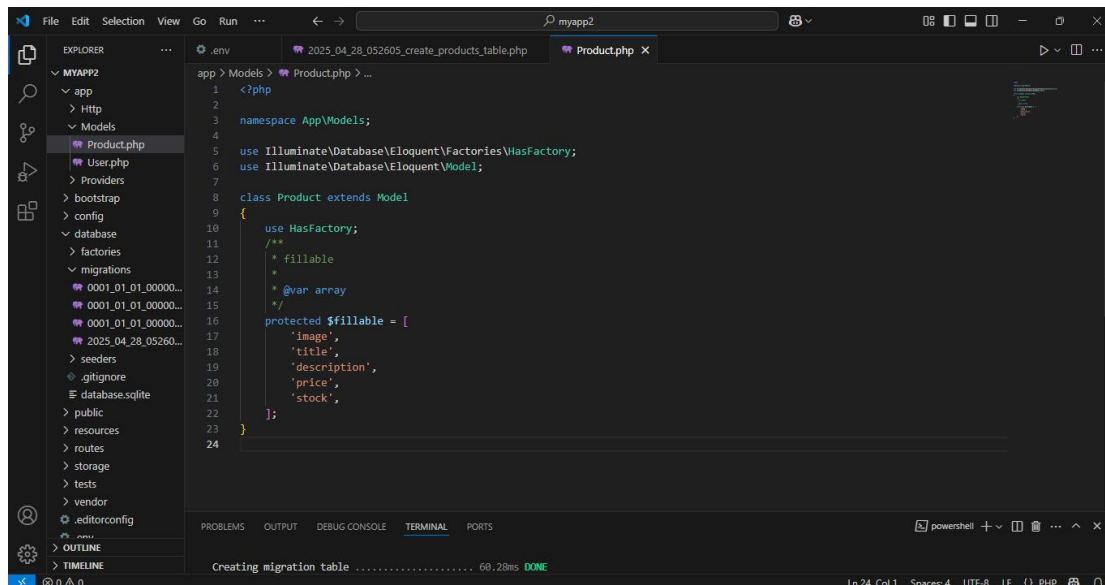


The screenshot shows the VS Code editor with the `2025_04_28_052605_create_products_table.php` migration file open. The code defines a new migration class that extends the `Migration` class. It includes an `up()` method that creates a new table named `products` with columns `id`, `image`, `title`, `description`, `price`, `stock`, and `timestamps`. It also includes a `down()` method that drops the `products` table if it exists.

```
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('products', function (Blueprint $table) {
15             $table->id();
16             $table->string('image');
17             $table->string('title');
18             $table->text('description');
19             $table->bigInteger('price');
20             $table->integer('stock')->default(0);
21             $table->timestamps();
22         });
23     }
24
25     /**
26      * Reverse the migrations.
27      */
28     public function down(): void
29     {
30         Schema::dropIfExists('products');
31     }
32 }
33
```

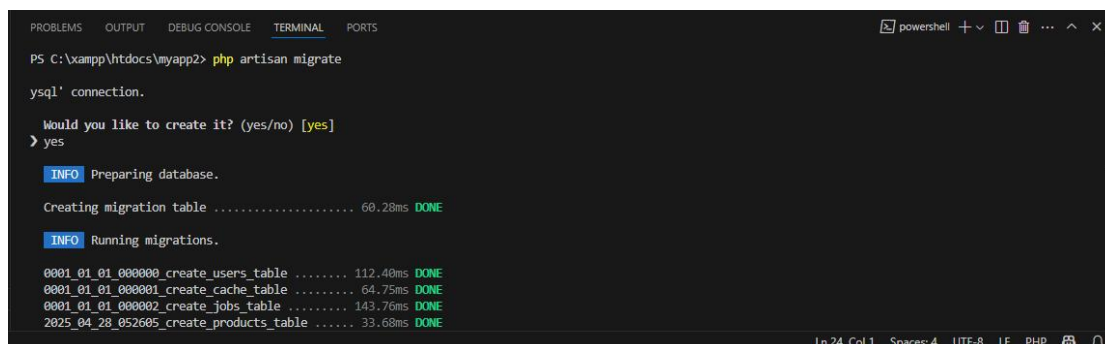
Creating migration table 68.28ms DONE

- langkah 2 tambahkan codingan di app - model - Product seperti dibawah ini



```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Factories\HasFactory;
6 use Illuminate\Database\Eloquent\Model;
7
8 class Product extends Model
9 {
10     use HasFactory;
11     /**
12      * fillable
13      * @var array
14      */
15     protected $fillable = [
16         'image',
17         'title',
18         'description',
19         'price',
20         'stock',
21     ];
22 }
23
24
```

4. Jalankan Migration lalu buka phpmyadmin



```
PS C:\xampp\htdocs\myapp2> php artisan migrate
ysql' connection.
Would you like to create it? (yes/no) [yes]
> yes
INFO: Preparing database.
Creating migration table ..... 60.28ms DONE
INFO: Running migrations.
0001_01_01_000000_create_users_table ..... 112.40ms DONE
0001_01_01_000001_create_cache_table ..... 64.75ms DONE
0001_01_01_000002_create_jobs_table ..... 143.76ms DONE
2025_04_28_052605_create_products_table ..... 33.68ms DONE
```

