

Nama : Ryandha Bayu Putra Kajufri
Nim : 200401066
Matkul : Pemograman Framework – Laravel

1. Pemasangan Laravel

- Buka CMD/Terminal, pindah ke direktori htdocs, lalu ketik perintah :

```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ASUS TUF GAMING>cd \xampp\htdocs

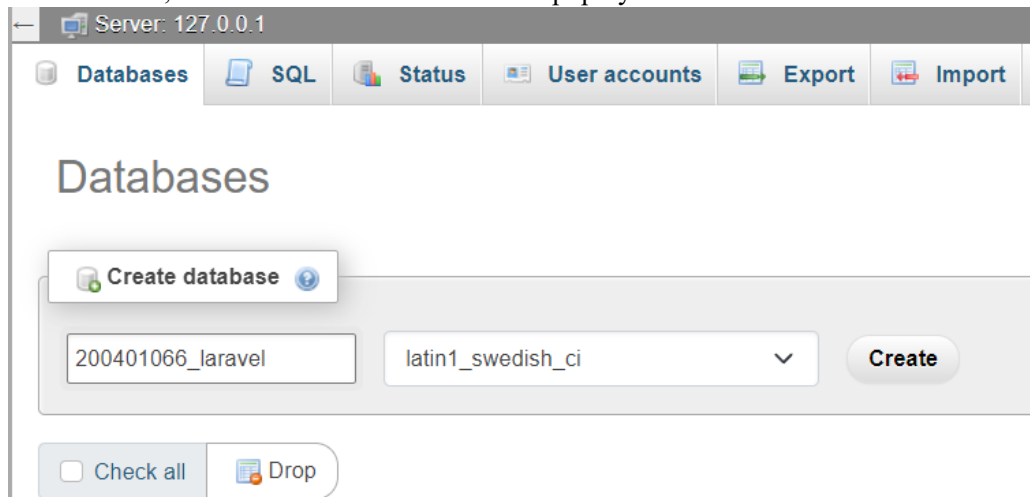
C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel
200401066_laravel
Creating a "laravel/laravel" project at "./200401066_laravel"
Installing laravel/laravel (v10.2.9)
- Installing laravel/laravel (v10.2.9): Extracting archive
Created project in C:\xampp\htdocs\200401066_laravel
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
```

2. Buat Database

- Buka XAMPP, start Apache dan MySQL



- Buka chrome, ketik localhost untuk masuk ke phpmyadmin lalu buat database baru



3. File migration (Articles, Authors, dan Categories)

- Pindah ke directory project yang telah dibuat tadi lalu ketik perintah :

```
C:\xampp\htdocs>cd \xampp\htdocs\200401066_laravel

C:\xampp\htdocs\200401066_laravel>php artisan make:migration Articles

  INFO  Migration [C:\xampp\htdocs\200401066_laravel\database\Migrations/2023_11_18_122038_articles.php] created successfully.

C:\xampp\htdocs\200401066_laravel>php artisan make:migration Authors

  INFO  Migration [C:\xampp\htdocs\200401066_laravel\database\Migrations/2023_11_18_122045_authors.php] created successfully.

C:\xampp\htdocs\200401066_laravel>php artisan make:migration Categories

  INFO  Migration [C:\xampp\htdocs\200401066_laravel\database\Migrations/2023_11_18_122051_categories.php] created successfully.

C:\xampp\htdocs\200401066_laravel>
```

4. Fungsi CRUD dengan konsep MVC pada laravel

- Hubungkan project dengan database, lalu buka file .env lalu pada bagian DB_DATABASE ubah sesuai nama database yang ingin dihubungkan

```
200401066_laravel > .env

11 DB_CONNECTION=mysql
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=200401066_laravel
15 DB_USERNAME=root
16 DB_PASSWORD=
```

- Bentuk model dan controller Articles dan Categories (sesuai ketentuan soal untuk fungsi CRUD) dengan perintah :

```
PS C:\xampp\htdocs\200401066_laravel> php artisan make:model Articles -m

  INFO  Model [C:\xampp\htdocs\200401066_laravel\app\Models\Articles.php] created successfully.

  INFO  Migration [C:\xampp\htdocs\200401066_laravel\database\Migrations/2023_11_18_123111_create_articles_table.php] created successfully.

PS C:\xampp\htdocs\200401066_laravel> php artisan make:model Categories -m

  INFO  Model [C:\xampp\htdocs\200401066_laravel\app\Models\Categories.php] created successfully.

  INFO  Migration [C:\xampp\htdocs\200401066_laravel\database\Migrations/2023_11_18_123140_create_categories_table.php] created successfully.

PS C:\xampp\htdocs\200401066_laravel>

PS C:\xampp\htdocs\200401066_laravel> php artisan make:controller ArticlesController

  INFO  Controller [C:\xampp\htdocs\200401066_laravel\app\Http\Controllers\ArticlesController.php] created successfully.

PS C:\xampp\htdocs\200401066_laravel> php artisan make:controller CategoriesController

  INFO  Controller [C:\xampp\htdocs\200401066_laravel\app\Http\Controllers\CategoriesController.php] created successfully.

PS C:\xampp\htdocs\200401066_laravel>
```

- Open file pada "route/web.php" lalu definisikan rute untuk Articles dan Categories

```
200401066_laravel > routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  use App\Http\Controllers\articleController;
6  use App\Http\Controllers\categoriesController;
7
8  Route::resource('Article', articleController::class);
9  Route::resource('Categories', categoriesController::class);
```

- Implementasi Metode CRUD Pada ArticlesController.php dan CategoriesController.php

```
200401066_laravel > app > Http > Controllers > ArticlesController.php
7
8  class articleController extends Controller
9  {
10     // articleController.php
11     public function index()
12     {
13         $articles = Article::all();
14         return view('articles.index', compact('articles'));
15     }
16
17     public function create()
18     {
19         return view('articles.create');
20     }
21
22     public function store(Request $request)
23     {
24         // Validasi data
25         // Simpan data
26     }
27
28     public function edit($id)
29     {
30         $article = Article::find($id);
31         return view('articles.edit', compact('article'));
32     }
33
34     public function update(Request $request, $id)
35     {
36         // Validasi dan perbarui data
37     }
38
39     public function destroy($id)
40     {
41         // Hapus data
42     }
43 }
```

```
200401066_laravel > app > Http > Controllers > CategoriesController.php
8 class CategoriesController extends Controller
9 {
10 // categoriesController.php
11 public function index()
12 {
13     $categories = Category::all();
14     return view('categories.index', compact('categories'));
15 }
16
17 public function create()
18 {
19     return view('categories.create');
20 }
21
22 public function store(Request $request)
23 {
24     // Validasi data
25     // Simpan data
26 }
27
28 public function edit($id)
29 {
30     $category = Category::find($id);
31     return view('categories.edit', compact('category'));
32 }
33
34 public function update(Request $request, $id)
35 {
36     // Validasi dan perbarui data
37 }
38
39 public function destroy($id)
40 {
41     // Hapus data dari
42 }
43 }
```