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Matkul : Pemograman Framework (Laravel)

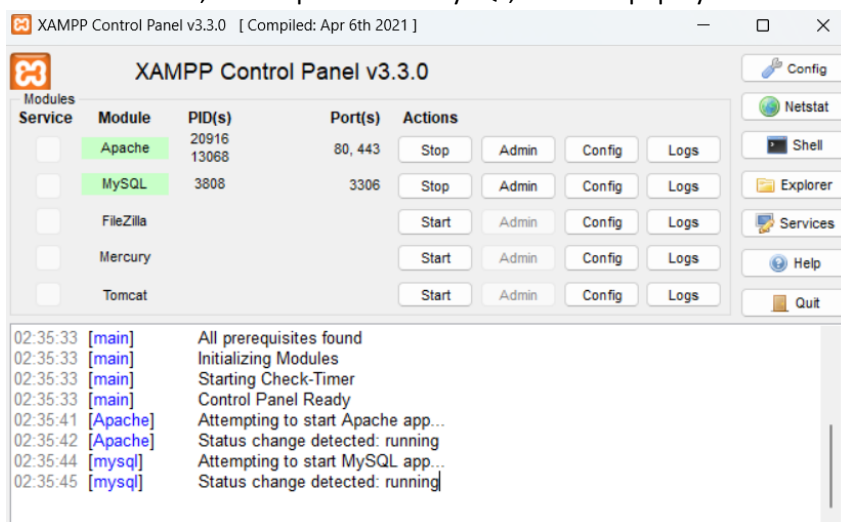
1. Instalasi Laravel

- Buka CMD, lalu pindah ke direktori cd \xampp\htdocs ,lalu ketik perintah :

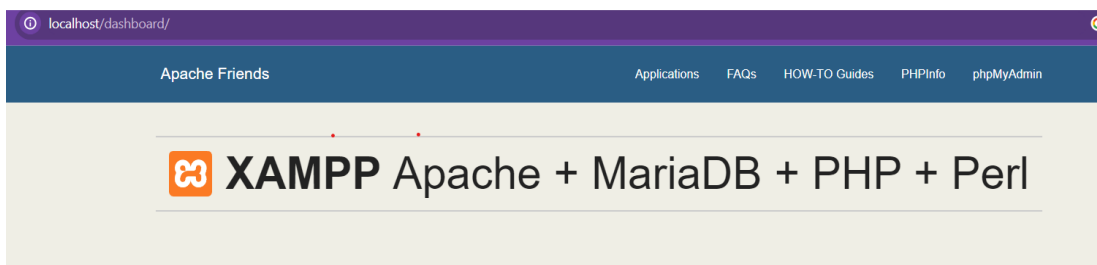
```
C:\WINDOWS\system32\cmd. x + v  
  
C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel 200401037_laravel  
Creating a "laravel/laravel" project at "./200401037_laravel"  
Installing laravel/laravel (v10.2.9)  
- Installing laravel/laravel (v10.2.9): Extracting archive  
Created project in C:\xampp\htdocs\200401037_laravel
```

2. Membuat Database

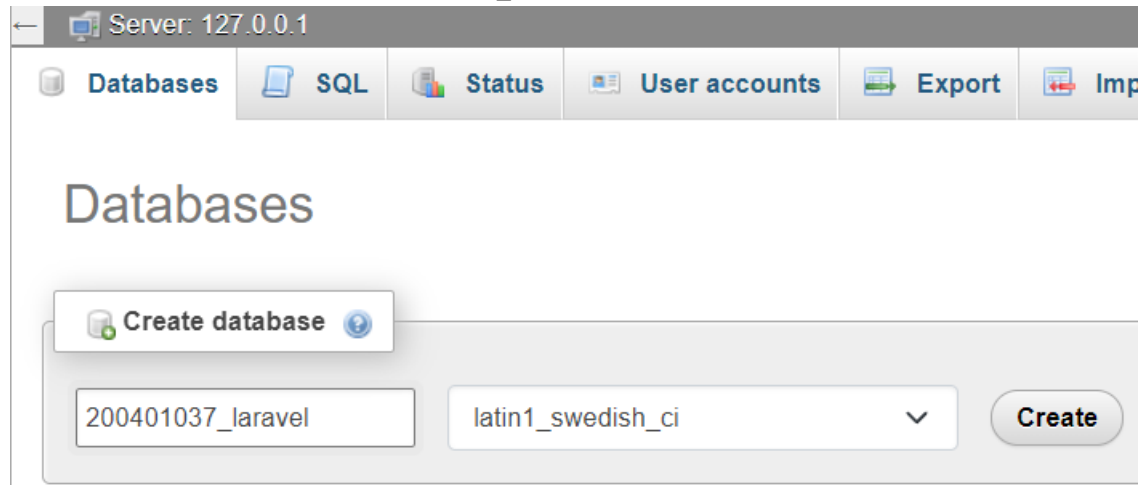
- Buka XAMPP, Start Apache dan MySQL, Lalu Klik phpmyadmin



- Buka Chrome lalu ketik localhost/ dan klik phpmyadmin



- Lalu buat database baru (200401037_laravel) sesuai ketentuan






3. Membuat file migration (articles, authors, categories)

- Masuk ke directori file project yang telah dibuat tadi lalu ketik perintah :

```
C:\xampp\htdocs\200401037_laravel>php artisan make:migration articles
[INFO] Migration [C:\xampp\htdocs\200401037_laravel\database\migrations\2023_11_17_205627_articles.php] created successfully.

C:\xampp\htdocs\200401037_laravel>php artisan make:migration authors
[INFO] Migration [C:\xampp\htdocs\200401037_laravel\database\migrations\2023_11_17_205641_authors.php] created successfully.

C:\xampp\htdocs\200401037_laravel>php artisan make:migration categories
[INFO] Migration [C:\xampp\htdocs\200401037_laravel\database\migrations\2023_11_17_205651_categories.php] created successfully.
```

Name	Date modified	Type	Size
 2023_11_17_205627_articles	18/11/2023 3:56	PHP Source File	1 KB
 2023_11_17_205641_authors	18/11/2023 3:56	PHP Source File	1 KB
 2023_11_17_205651_categories	18/11/2023 3:56	PHP Source File	1 KB

4. Fungsi CRUD dengan konsep MVC laravel

- Koneksikan database dengan file project, buka file .env lalu pada bagian DB_DATABASE ubah sesuai nama database yang telah dibuat

```
> database
> public
> resources
> routes
> storage
> tests
> vendor
⚙ .editorconfig
⚙ .env
$ .env.example

10
11 DB_CONNECTION=mysql
12 DB_HOST=127.0.0.1
13 DB_PORT=3306
14 DB_DATABASE=200401037_laravel
15 DB_USERNAME=root
16 DB_PASSWORD=
17
18 BROADCAST_DRIVER=log
19 CACHE_DRIVER=file
20 FILESYSTEM_DISK=local
21 QUEUE_CONNECTION=sync
```

- Lalu buat model dan controller articles dan categories (sesuai ketentuan untuk fungsi CRUD) dengan perintah :

```
PS C:\xampp\htdocs\200401037_laravel> php artisan make:model articles -m
INFO Model [C:\xampp\htdocs\200401037_laravel\app\Models\articles.php] created successfully.
INFO Migration [C:\xampp\htdocs\200401037_laravel\database\Migrations\2023_11_18_090922_create_articles_table.php] created successfully.
PS C:\xampp\htdocs\200401037_laravel> php artisan make:model categories -m
INFO Model [C:\xampp\htdocs\200401037_laravel\app\Models\categories.php] created successfully.
INFO Migration [C:\xampp\htdocs\200401037_laravel\database\Migrations\2023_11_18_091351_create_categories_table.php] created successfully.
PS C:\xampp\htdocs\200401037_laravel> php artisan make:controller articlesController
INFO Controller [C:\xampp\htdocs\200401037_laravel\app\Http\Controllers\articlesController.php] created successfully.
PS C:\xampp\htdocs\200401037_laravel> php artisan make:controller categoriesController
INFO Controller [C:\xampp\htdocs\200401037_laravel\app\Http\Controllers\categoriesController.php] created successfully.
```

- Buka file pada “route/web.php” lalu definisikan rute untuk articles dan categories

```
200401037_laravel > routes > web.php

5 use App\Http\Controllers\articlesController;
6 use App\Http\Controllers\categoriesController;
7
8 Route::resource('Articles', articlesController::class);
9 Route::resource('Categories', categoriesController::class);
```

- Implementasi Metode CRUD pada controller file articlesController dan categoriesController.php

```
200401037_laravel > app > Http > Controllers > 🐞 articlesController.php
3  // articlesController.php
4  public function index()
5  {
6      $articles = Article::all();
7      return view('articles.index', compact('articles'));
8  }
9
10 public function create()
11 {
12     return view('articles.create');
13 }
14
15 public function store(Request $request)
16 {
17     // Validasi data
18     // Simpan data ke database
19 }
20
21 public function edit($id)
22 {
23     $article = Article::find($id);
24     return view('articles.edit', compact('article'));
25 }
26
27 public function update(Request $request, $id)
28 {
29     // Validasi dan perbarui data di database
30 }
31
32 public function destroy($id)
33 {
34     // Hapus data dari database
35 }
```

200401037_laravel > app > Http > Controllers > 🐞 categoriesController.php

```
1  <?php
2
3  // categoriesController.php
4  public function index()
5  {
6      $categories = Category::all();
7      return view('categories.index', compact('categories'));
8  }
9
10 public function create()
11 {
12     return view('categories.create');
13 }
14
15 public function store(Request $request)
16 {
17     // Validasi data
18     // Simpan data ke database
19 }
20
21 public function edit($id)
22 {
23     $category = Category::find($id);
24     return view('categories.edit', compact('category'));
25 }
26
27 public function update(Request $request, $id)
28 {
29     // Validasi dan perbarui data di database
30 }
31
32 public function destroy($id)
33 {
34     // Hapus data dari database
35 }
```