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Matkul : **Pemograman Framework (Laravel)**

1. **Instalasi Laravel**

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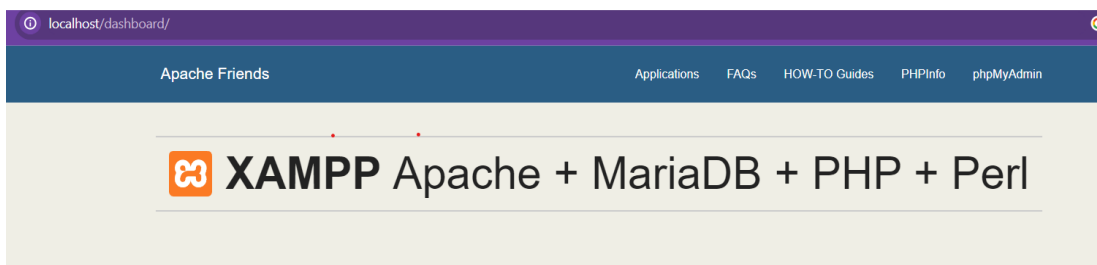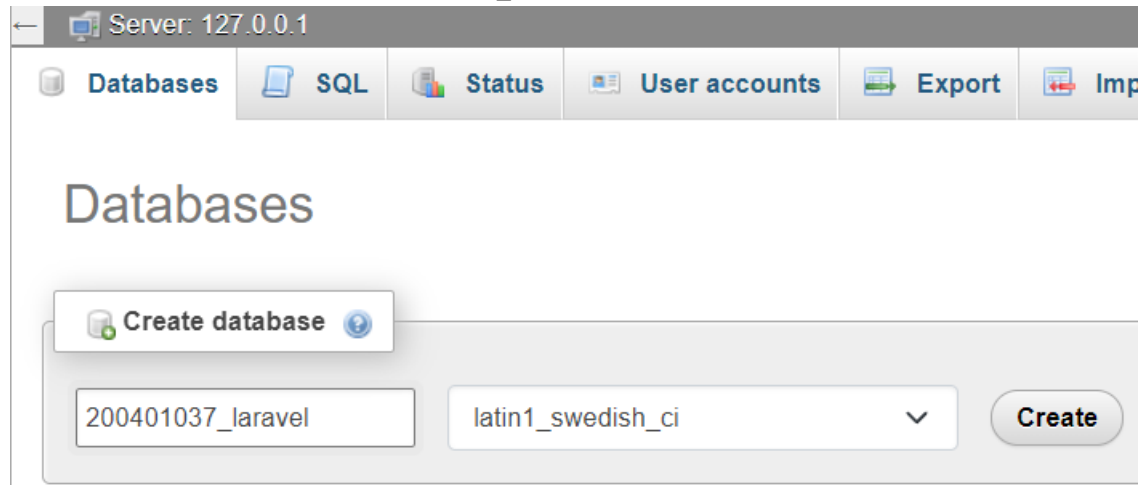

2. **Membuat Database**

   - Buka XAMPP, Start Apache dan MySQL, Lalu Klik phpmyadmin
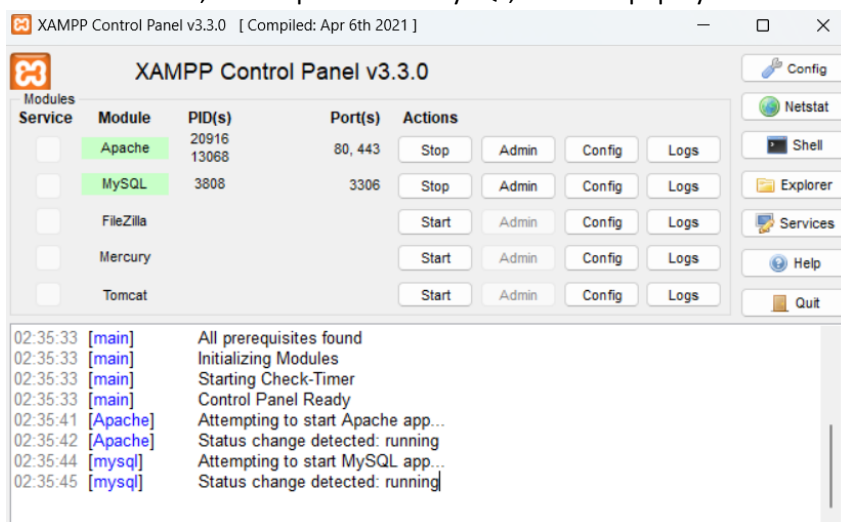
   - Buka Chrome lalu ketik localhost/ dan klik phpmyadmin

- 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 succes
sfully.

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 success
fully.

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 succ
essfully.
```

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

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

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

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

200401037_laravel > app > Http > Controllers > 🐘 articlesController.php

```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  }
```

```php
<?php

// categoriesController.php
public function index()
{
    $categories = Category::all();
    return view('categories.index', compact('categories'));
}

public function create()
{
    return view('categories.create');
}

public function store(Request $request)
{
    // Validasi data
    // Simpan data ke database
}

public function edit($id)
{
    $category = Category::find($id);
    return view('categories.edit', compact('category'));
}

public function update(Request $request, $id)
{
    // Validasi dan perbarui data di database
}

public function destroy($id)
{
    // Hapus data dari database
}
```