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Langkah-langkah saya dalam pembuatan website EduFun:

- Pertama-tama saya membuat route terlebih dahulu
- Kemudian saya membuat viewnya terlebih dahulu
- Kemudian saya membuat migration databasenya
- Kemudian Seeder dan faker

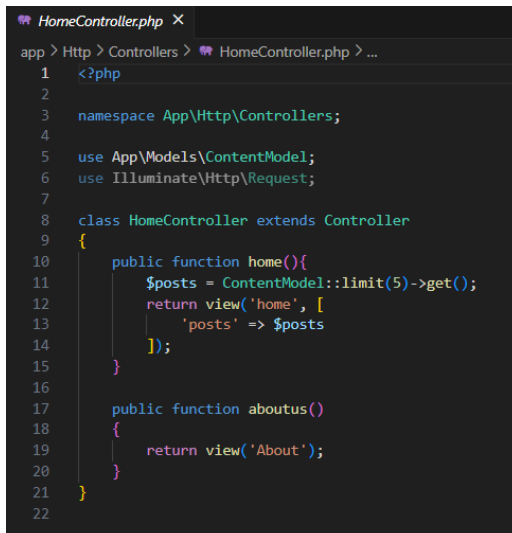
1. Routing



```
web.php X
routes > web.php > ...
1  <?php
2
3  use App\Http\Controllers\HomeController;
4  use App\Http\Controllers\ContentController;
5  use Illuminate\Mail\Mailables\Content;
6  use Illuminate\Support\Facades\Route;
7
8  Route::get('/', [HomeController::class, 'home']);
9
10 Route::get('/writers', function(){
11     return view('writers');
12 });
13
14 Route::get('/about', [HomeController::class, 'aboutus']);
15 Route::get('/posts', [ContentController::class, 'index']->name('posts.index'));
16
```

Pada Routing saya sudah buat merupakan routing yang sederhana. Routing ini bertugas untuk mengarahkan ke controller, dan kemudian controller tersebut mengeksekusi perintah.

2. Controller



```
HomeController.php X
app > Http > Controllers > HomeController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\Models\ContentModel;
6  use Illuminate\Http\Request;
7
8  class HomeController extends Controller
9  {
10     public function home(){
11         $posts = ContentModel::limit(5)->get();
12         return view('home', [
13             'posts' => $posts
14         ]);
15     }
16
17     public function aboutus()
18     {
19         return view('About');
20     }
21 }
22
```

Pada Controller Home, controller tersebut mengesekusi sebuah function yang disebut Home dan aboutus. Pada function home, function tersebut melaksanakan pagination dengan limit 5 content/post per pagenya.

```
WriterController.php X
app > Http > Controllers > WriterController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\Models\WriterModel;
6  use Illuminate\Http\Request;
7
8  class WriterController extends Controller
9  {
10     public function index()
11     {
12         $authors = WriterModel::all();
13         return view('writer', [
14             'writer' => $authors
15         ]);
16     }
17
18     public function show(WriterModel $author)
19     {
20         $posts = $author->posts()->get();
21         return view('writer', [
22             'writer' => $author,
23             'content' => $posts
24         ]);
25     }
26 }
27
```

Controller ini bertugas untuk menampilkan semua writer / Author yang menulis content / post yang ada pada website Edufun.

Berikut adalah Controller lain yang telah saya buat.

```
ContentController.php X
app > Http > Controllers > ContentController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\Models\ContentModel;
6  use Illuminate\Http\Request;
7
8  class ContentController extends Controller
9  {
10     public function index(ContentModel $post)
11     {
12         return view('content', [
13             'post' => $post
14         ]);
15     }
16
17     public function popular()
18     {
19         $posts = ContentModel::orderBy('view_count', 'desc')->simplePaginate(3);
20         return view('contents', [
21             'posts' => $posts
22         ]);
23     }
24 }
25
```

```

CategoryController.php X
app > Http > Controllers > CategoryController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\Models\CategoryModel;
6  use App\Models\ContentModel;
7  use Illuminate\Http\Request;
8
9  class CategoryController extends Controller
10 {
11     public function index(CategoryModel $category)
12     {
13         $posts = ContentModel::where('category_id', $category->id)->get();
14         return view('category.index', [
15             'category' => $category,
16             'posts' => $posts
17         ]);
18     }
19 }

```

3. Databases (Migration, Seeder, Faker)

a. Migration

Pada migration, say telah membuat tiga file baru yaitu, Categories, post, writers.

Migration ini membantu kita untuk membuat tabel di database.

```

2024_11_05_144856_create_categories_table.php X
database > migrations > 2024_11_05_144856_create_categories_table.php > ...
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration
8  {
9      /**
10       * Run the migrations.
11       */
12       public function up(): void
13       {
14           Schema::create('categories', function (Blueprint $table) {
15               $table->id();
16               $table->string('name');
17               $table->string('slug')->unique();
18               $table->timestamps();
19           });
20       }
21
22       /**
23        * Reverse the migrations.
24        */
25       public function down(): void
26       {
27           Schema::dropIfExists('categories');
28       }
29   };
30

```

```

2024_11_05_144954_create_writer_table.php X
database > migrations > 2024_11_05_144954_create_writer_table.php > ...
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration
8  {
9      /**
10       * Run the migrations.
11       */
12     public function up(): void
13     {
14         Schema::create('writer', function (Blueprint $table) {
15             $table->id();
16             $table->string('name');
17             $table->string('email')->unique();
18             $table->string('slug');
19             $table->text('avatar')->unique();
20             $table->timestamps();
21         });
22     }
23
24     /**
25      * Reverse the migrations.
26      */
27     public function down(): void
28     {
29         Schema::dropIfExists('writer');
30     }
31 };
32

```

```

2024_11_05_145026_create_post_table.php X
database > migrations > 2024_11_05_145026_create_post_table.php > ...
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration
8  {
9      /**
10       * Run the migrations.
11       */
12     public function up(): void
13     {
14         Schema::create('post', function (Blueprint $table) {
15             $table->id();
16             $table->string('title');
17             $table->string('slug')->unique();
18             $table->text('body');
19             $table->text('image')->nullable();
20             $table->unsignedBigInteger('writer_id');
21             $table->unsignedBigInteger('categories_id');
22             $table->foreign('writer_id')->references('id')->on('writer')->onDelete(
                'cascade');
23             $table->foreign('categories_id')->references('id')->on('categories')
                ->onDelete('cascade');
24             $table->integer('view_count')->default(0);
25             $table->timestamps();
26         });
27     }
28
29     /**
30      * Reverse the migrations.
31      */
32     public function down(): void
33     {
34         Schema::dropIfExists('post');
35     }
36 };

```

b. Seeder

Seeder digunakan untuk mengembangkan web / aplikasi untuk mengisi data default. Hal ini memungkinkan untuk kita melakukan testing pada web yang dibangun.

```
database > seeders > CategorySeeder.php > ...
1  <?php
2
3  namespace Database\Seeders;
4
5  use App\Models\CategoryModel;
6  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
7  use Illuminate\Database\Seeder;
8
9  class CategorySeeder extends Seeder
10 {
11     /**
12      * Run the database seeds.
13      */
14     public function run(): void
15     {
16         CategoryModel::factory()->create([
17             'name' => 'Data Science',
18             'slug' => 'Data Science',
19         ]);
20
21         CategoryModel::factory()->create([
22             'name' => 'Network Security',
23             'slug' => 'Network Security',
24         ]);
25     }
26 }
27
```

```
1  <?php
2
3  namespace Database\Seeders;
4
5  use App\Models\User;
6  // use Illuminate\Database\Console\Seeds\WithoutModelEvents;
7  use Illuminate\Database\Seeder;
8
9  class DatabaseSeeder extends Seeder
10 {
11     /**
12      * Seed the application's database.
13      */
14     public function run(): void
15     {
16         // User::factory(10)->create();
17
18         User::factory()->create([
19             'name' => 'Test User',
20             'email' => 'test@example.com',
21         ]);
22     }
23 }
24
```

```

16     public function run(): void
17     {
18         $avatarArray = [
19             'images/stitch.jpeg',
20             'images/emily.jpg',
21             'images/adam.jpg'
22         ];
23
24         $nameArr = [
25             'Stitch Jr.',
26             'Emily Dior Regan',
27             'Adam Luckianto'
28         ];
29
30         $emailArr = [
31             'stitch@gmail.com',
32             'Emily.Regan@gmail.com',
33             'adam.luckianto@gmail.com'
34         ];
35         $faker = Faker::create('id_ID');
36         for ($i = 0; $i < 3; $i++) {
37             $slug = Str::slug($nameArr[$i]);
38             WriterModel::create([
39                 'name' => $nameArr[$i],
40                 'email' => $emailArr[$i],
41                 'slug' => $slug,
42                 'avatar' => $avatarArray[$i],
43             ]);
44         }
45     }
46 }

```

4. Model

Model ini sepaket dengan pembuatan controller. Jadinya apabila ada controller maka harus ada model yang berkaitan. Model digunakan untuk merefrensikan tabel dalam migrasi.

```

app > Models > WriterModel.php > ...
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Model;
6
7  class WriterModel extends Model
8  {
9      protected $guarded = [
10         'id',
11     ];
12
13     public function contents()
14     {
15         return $this->hasMany(ContentModel::class);
16     }
17 }
18

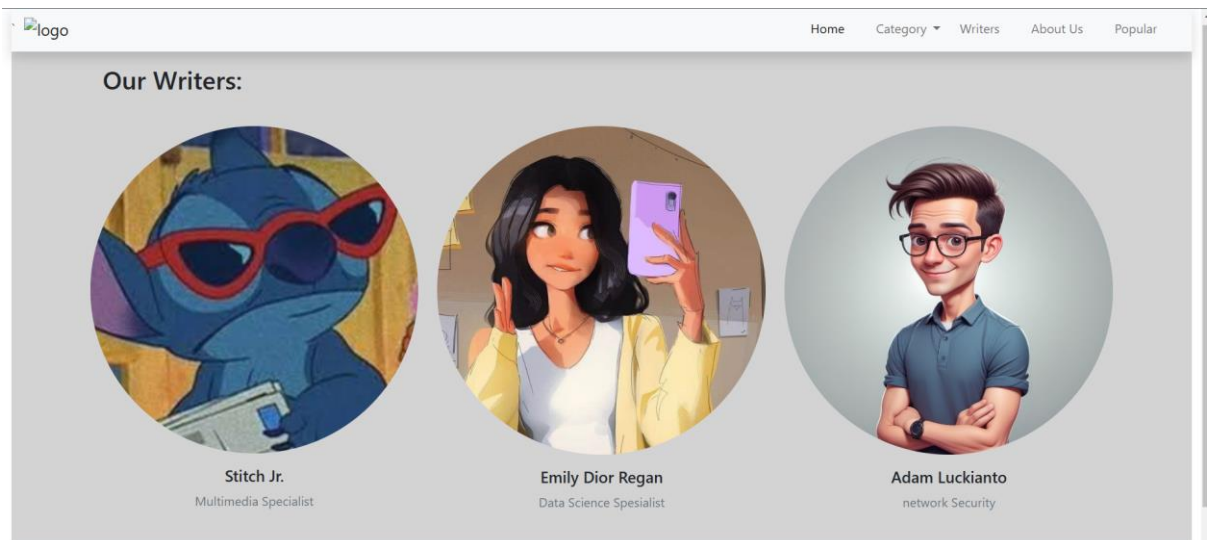
```

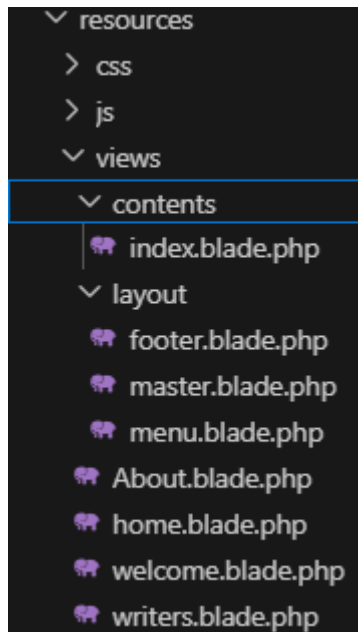
```

app > Models > CategoryModel.php > ...
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Model;
6
7  class CategoryModel extends Model
8  {
9      protected $guarded = [
10         'id',
11     ];
12
13     public function posts()
14     {
15         return $this->hasMany(ContentModel::class);
16     }
17 }
18

```

5. Views





```
1 @extends('layout.master')
2
3 @section('title')
4 <title>Writers Page</title>
5 @endsection
6
7 @section('content')
8 <div class="container">
9   <h2 class="mb-4 p-3">Our Writers:</h2>
10   <div class="row">
11     <!-- Writer 1 -->
12     <div class="col-md-4 mb-4 text-center">
13       <div class="writer-card">
14         
15         <div class="card-body">
16           <h5 class="card-title">Stitch Jr.</h5>
17           <p class="card-text text-muted">Multimedia Specialist</p>
18         </div>
19       </div>
20     </div>
21     <!-- Writer 2 -->
22     <div class="col-md-4 mb-4 text-center">
23       <div class="writer-card">
24         
25         <div class="card-body">
26           <h5 class="card-title">Emily Dior Regan</h5>
27           <p class="card-text text-muted">Data Science Spesialist</p>
28         </div>
29       </div>
30     </div>
31     <!-- Writer 3 -->
32     <div class="col-md-4 mb-4 text-center">
33       <div class="writer-card">
34         
35         <div class="card-body">
36           <h5 class="card-title">Adam Luckianto</h5>
37           <p class="card-text text-muted">network Security</p>
38         </div>
39       </div>
40     </div>
41   </div>
42 </div>
```

```
1 @extends('layout.master')
2
3 @section('title')
4 <title>About Us</title>
5 @endsection
6
7 @section('content')
8 <div class="row">
9   <div class="col-12">
10     <div class="py-5">
11       <div class="text-center">
12         <h2>About EduFun</h2>
13         <p class="text-center px-5 mt-4">
14           EduFun adalah perusahaan pendidikan berbasis teknologi asal Indonesia. EduFun menyediakan layanan akses pendidikan dalam format tulisan berbahasa Indonesia yang
15           disajikan secara online melalui website.
16         </p>
17         <p class="text-center px-5 mt-4">
18           Hingga Juni 2024, EduFun memiliki lebih dari 10 ribu pengguna. EduFun hadir sebagai bentuk revolusi dari pendidikan di Indonesia dengan mengedepankan cara berpikir
19           kritis, logis, rasional, dan sumber pengetahuan sains yang terintegrasi terhadap semua mahasiswa IT di Indonesia. EduFun bercita-cita mencetak generasi Indonesia
20           yang memahami ilmu pengetahuan dan cinta belajar.
21         </p>
22       </div>
23     </div>
24   </div>
25 </div>
26 @endsection
```