

Edufun Documentation

Web Programming Mid Exam Exercise

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1. Routing

Routing di Laravel mengarahkan user ke fungsi-fungsi yang udah didefinisikan di controller. Pada project ini, routing diatur di file web.php

Contoh kode berdasarkan projek :

```
Route::get('/', [ArticleController::class, 'index'])->name('homepage');
Route::get('/category', [ArticleController::class, 'categoryData'])->name('category');
Route::get('/writers', [PageController::class, 'writers'])->name('writers');
Route::get('/about', [PageController::class, 'about'])->name('about');
Route::get('/article/{id}', [ArticleController::class, 'show'])->name('article.show');
Route::get('/writers', [PageController::class, 'writersData'])->name('writers');
```

Kode tersebut yang akan mengatur kemana user akan diarahkan

2. Controller

Controller mengelola logika aplikasi dan jadi penghubung antara Model dan View. Pada projek ini Controller mengatur logika aplikasi pada file ArticleController dan PageController.

Contoh kode berdasarkan projek :

```
public function index(){
    $articles = Article::select('id', 'title', 'author', 'published_at', 'summary', 'image_path')
        ->orderBy('published_at', 'desc')
        ->take(10)
        ->get();

    return view('homepage', compact('articles'));
}

public function show($id) {
    $article = Article::findOrFail($id);
    return view('fullArticle', compact('article'));
}

public function categoryData(){
    $articles = Article::select('id', 'title', 'author', 'published_at', 'summary', 'image_path')
        ->orderBy('published_at', 'desc')
        ->take(10)
        ->get();

    return view('category', compact('articles'));
}
```

```

public function homepage(){
    return view('homepage');
}

public function category(){
    return view('category');
}

public function writers(){
    return view('writers');
}

public function about(){
    return view('about');
}

public function writersData()
{
    $writers = Writer::all();
    return view('writers', compact('writers'));
}

```

3. Model

Model merupakan representasi dari database. Pada proyek ini model yang merepresentasikan database adalah Article dan Writer

Contoh kode berdasarkan proyek :

```

class Article extends Model
{
    protected $dates = ['published_at'];
}

```

```

class Writer extends Model
{
    //
}

```

4. View dan Blade

View bertugas menampilkan data yang didapat dari controller dalam bentuk HTML ke user. Laravel punya templating engine namanya Blade buat mempermudah ini.

Contoh kode berdasarkan proyek :

```

<div class="container mt-5">

    @if($articles->isEmpty())

        <p>No articles found.</p>

    @else

        @foreach($articles as $article)

```

```

<div class="row g-0 border rounded overflow-hidden flex-md-row mb-4 shadow-sm h-
md-250 position-relative" bis_skin_checked="1">

    <div class="col p-4 d-flex flex-column position-static" bis_skin_checked="1">

        <h3 class="mb-0">{{ $article->title }}</h3>

        <p><strong>Author:</strong> {{ $article->author }} , {{ $article->published_at }}</p>

        <p class="card-text"><p>{{ Str::limit($article->summary, 100) }}</p></p>

        <a href="{{ route('article.show', $article->id) }}" class="icon-link gap-1 icon-link-
hover stretched-link link-dark">

            Read more

            <svg class="bi"><use xlink:href="#chevron-right"></use></svg>

        </a>

    </div>

    <div class="col-auto d-none d-lg-block" bis_skin_checked="1">

        title }}" class="image-
fluid" height="300px" width="500px">

    </div>

</div>

@endforeach

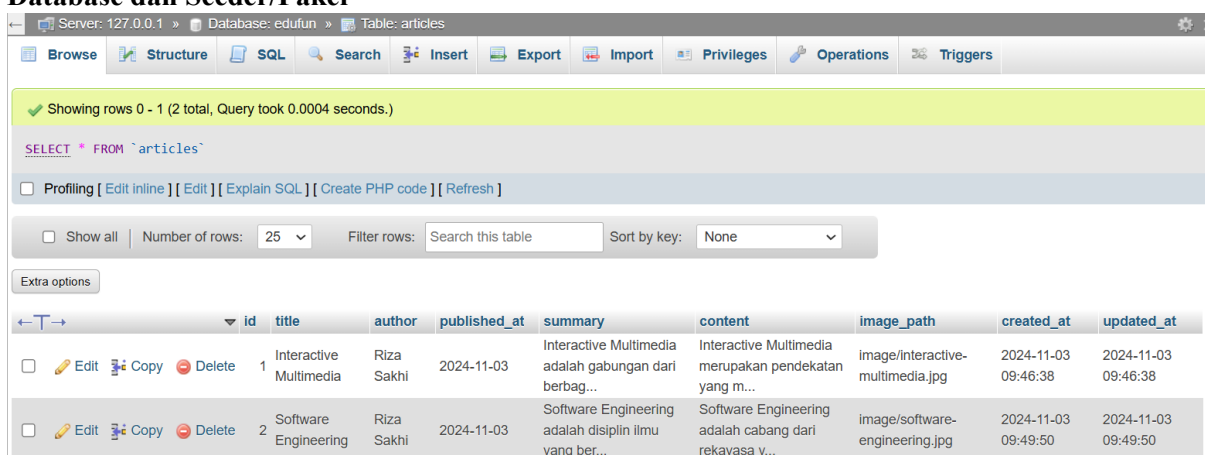
@endif

</div>

```

Kode tersebut akan menampilkan data dari database.

5. Database dan Seeder/Faker



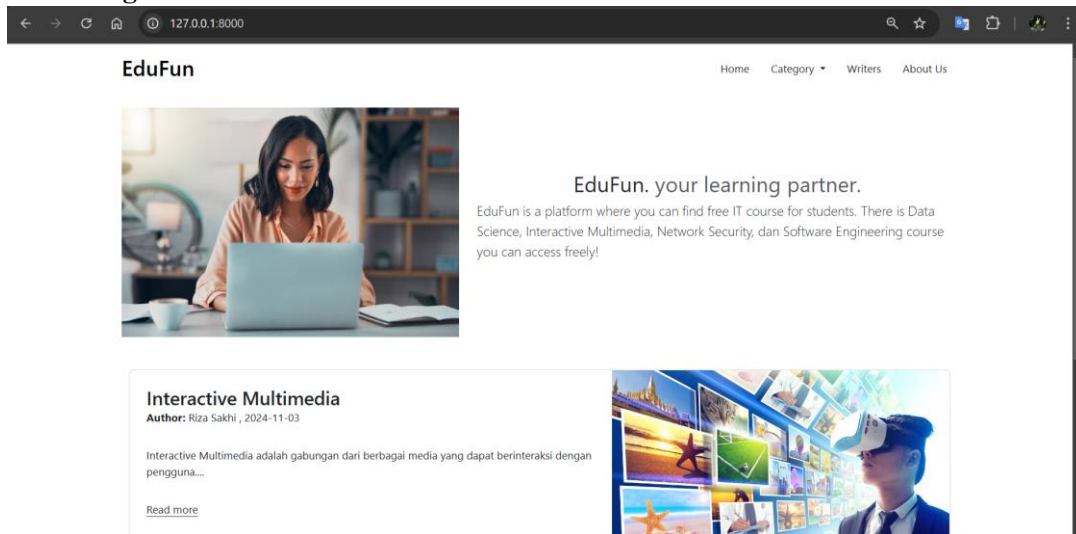
The screenshot shows a database management interface with the following data in the 'articles' table:

	id	title	author	published_at	summary	content	image_path	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	Interactive Multimedia	Riza Sakhi	2024-11-03	Interactive Multimedia adalah gabungan dari berbag...	Interactive Multimedia merupakan pendekatan yang m...	image/interactive-multimedia.jpg	2024-11-03 09:46:38	2024-11-03 09:46:38
<input type="checkbox"/> Edit Copy Delete	2	Software Engineering	Riza Sakhi	2024-11-03	Software Engineering adalah disiplin ilmu yang ber...	Software Engineering adalah cabang dari rekayasa y...	image/software-engineering.jpg	2024-11-03 09:49:50	2024-11-03 09:49:50

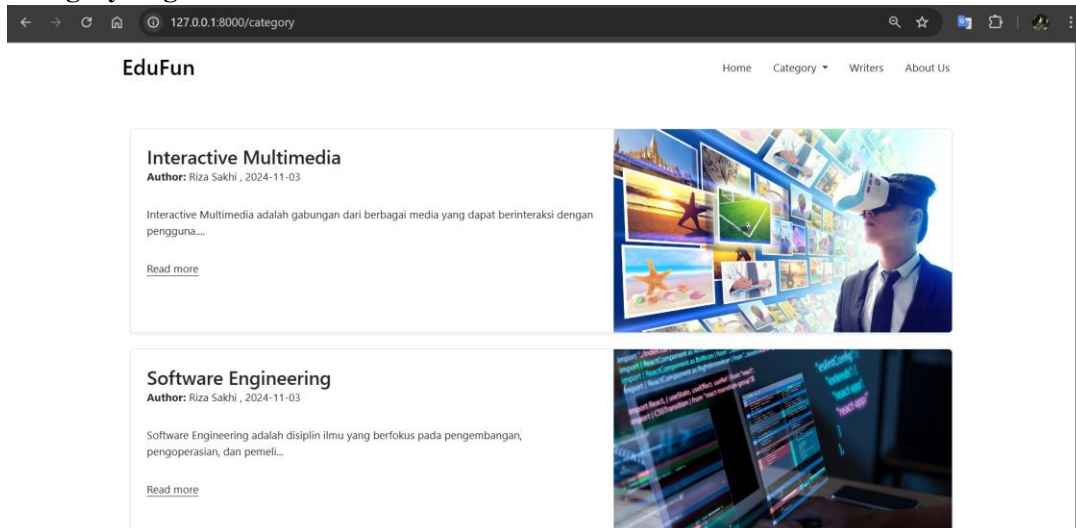
Database yang digunakan untuk menyimpan data untuk proyek ini adalah MySQL. Dan data distore menggunakan fitur Laravel yaitu Seed.

User Interface :

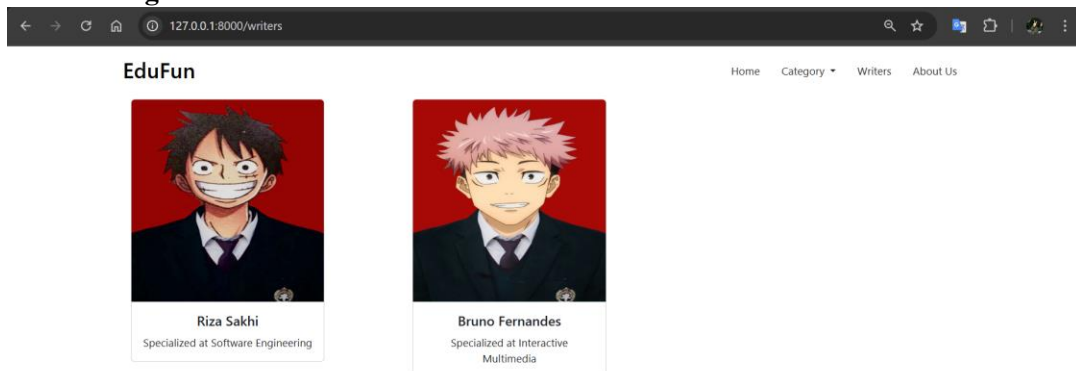
1. Home Page



2. Category Page



3. Writers Page



4. About Us Page



5. Course Page

