

Nama : Mario Orlando

NIM : 2602078291

Kelas : LC01

EduFun Documentation

Backend Logic:

Penjelasan Models

1. **Category:** Mewakili Data Science dan Network Security.
2. **Course:** Menyimpan detail tentang mata kuliah tertentu untuk setiap kategori.
3. **Article:** Menyimpan artikel untuk setiap kursus dengan atribut seperti judul, konten, tanggal diposting, dan penulis.
4. **Writer:** Mewakili penulis yang menyumbangkan artikel.
5. **PopularArticle:** Melacak artikel populer (berdasarkan jumlah tampilan).

Penjelasan Relationships

1. **Category - Course:** One to Many (Setiap Kategori memiliki beberapa Kursus).
2. **Course - Article:** One to Many (Setiap Kursus memiliki beberapa Artikel).
3. **Writer - Article:** One to Many (Setiap Penulis dapat menulis beberapa Artikel).
4. **PopularArticle - Article:** One to One (Setiap Popular Article Memiliki satu Artikel) (Popular Article hanya menyimpan jumlah views masing-masing article).

Penjelasan Routing

1. `Route::get('/', [HomeController::class, 'index'])`: Mengarahkan ke halaman home yang ditangani oleh metode index dari HomeController.
2. `Route::get('/categories/{category}', [CategoryController::class, 'show'])`: Mengarahkan ke halaman detail kategori tertentu.
3. `Route::get('/articles/{article}', [DetailController::class, 'show'])`: Mengarahkan ke halaman detail artikel tertentu.
4. `Route::get('/writers', [WriterController::class, 'index'])`: Mengarahkan ke halaman daftar penulis.
5. `Route::get('/writers/{writer}', [WriterController::class, 'show'])`: Mengarahkan ke halaman detail penulis tertentu.

6. `Route::get('/about', [AboutController::class, 'index'])`: Mengarahkan ke halaman tentang aplikasi.
7. `Route::get('/popular', [PopularArticleController::class, 'index'])`: Mengarahkan ke halaman artikel populer.

A. Routing

```
<?php

use App\Http\Controllers\AboutController;
use App\Http\Controllers\CategoryController;
use App\Http\Controllers\DetailController;
use App\Http\Controllers\HomeController;
use App\Http\Controllers\PopularArticleController;
use App\Http\Controllers\WriterController;
use Illuminate\Support\Facades\Route;

Route::get('/', [HomeController::class, 'index'])->name('home');
Route::get('/categories', [CategoryController::class, 'index'])->name('categories');
Route::get('/categories/{category}', [CategoryController::class, 'show'])->name('category.show');
Route::get('/articles/{article}', [DetailController::class, 'show'])->name('article.show');
Route::get('/writers', [WriterController::class, 'index'])->name('writers');
Route::get('/writers/{writer}', [WriterController::class, 'show'])->name('writer.show');
Route::get('/about', [AboutController::class, 'index'])->name('about');
Route::get('/popular', [PopularArticleController::class, 'index'])->name('popular');
```

B. Migration

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

You, 3 hours ago | 1 author (You)
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('categories', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('categories');
    }
};
```

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

You, 3 hours ago | 1 author (You)
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('writers', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('bio');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('writers');
    }
};
```

```

<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

You, 3 hours ago | 1 author (You)
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('courses', function (Blueprint $table) {
            $table->id();
            $table->foreignId('category_id')->constrained()->cascadeOnDelete();
            $table->string('name');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('courses');
    }
};

```

```

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

You, 3 hours ago | 1 author (You)
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('articles', function (Blueprint $table) {
            $table->id();
            $table->foreignId('course_id')->constrained()->cascadeOnDelete();
            $table->foreignId('writer_id')->constrained()->cascadeOnDelete();
            $table->string('title');
            $table->text('content');
            $table->date('published_at');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('articles');
    }
};

```

```

<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

You, 3 hours ago | 1 author (You)
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('popular_articles', function (Blueprint $table) {
            $table->id();
            $table->foreignId('article_id')->constrained()->cascadeOnDelete();
            $table->integer('views')->default(0);
            $table->timestamps();
        });
    }
};

You, 3 hours ago * feat: add model, factory, seeder, migration, co...

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('popular_articles');
    }
};

```

C. Controller

```

<?php

namespace App\Http\Controllers;

class AboutController extends Controller
{
    public function index()
    {
        return view('pages.about');
    }
}

```

```

<?php

namespace App\Http\Controllers;

use App\Models\Category;

You, 2 hours ago | 1 author (You)
class CategoryController extends Controller
{
    public function index()
    {
        $categories = Category::all();
        return view('pages.categories.index', compact('categories'));
    }

    public function show(Category $category)
    {
        $courses = $category->courses()->with('articles')->get();
        return view('pages.categories.show', compact('category', 'courses'));
    }
}

```

```

<?php

namespace App\Http\Controllers;

use App\Models\Article;

class DetailController extends Controller
{
    public function show(Article $article)
    {
        return view('pages.articles.show', compact('article'));
    }
}

```

```

<?php

namespace App\Http\Controllers;

use App\Models\Article;

class HomeController extends Controller
{
    public function index()
    {
        $articles = Article::latest()->take(5)->get();
        return view('pages.home', compact('articles'));
    }
}

```

```

<?php

namespace App\Http\Controllers;

use App\Models\PopularArticle;

You, 3 hours ago | 1 author (You)
class PopularArticleController extends Controller
{
    public function index()
    {
        $popularArticles = PopularArticle::with('article')
            ->orderBy('views', 'desc')
            ->paginate(3);

        return view('pages.popular', compact('popularArticles'));
    }
}

```

```

<?php

namespace App\Http\Controllers;

use App\Models\Writer;

You, 3 hours ago | 1 author (You)
class WriterController extends Controller
{
    public function index()
    {
        $writers = Writer::all();
        return view('pages.writers.index', compact('writers'));
    }

    public function show(Writer $writer)
    {
        $articles = $writer->articles()->get();
        return view('pages.writers.show', compact('writer', 'articles'));
    }
}

```

D. Model

```

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Article extends Model
{
    use HasFactory;

    public function course()
    {
        return $this->belongsTo(Course::class);
    }

    public function writer()
    {
        return $this->belongsTo(Writer::class);
    }
}

```

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Category extends Model
{
    use HasFactory;

    public function courses()
    {
        return $this->hasMany(Course::class);
    }
}

```

```

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Course extends Model
{
    use HasFactory;

    public function category()
    {
        return $this->belongsTo(Category::class);
    }

    public function articles()
    {
        return $this->hasMany(Article::class);
    }
}

```

```
You, 3 hours ago | 1 author (You)
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class PopularArticle extends Model
{
    use HasFactory;
    public function article()
    {
        return $this->belongsTo(Article::class);
    }
}

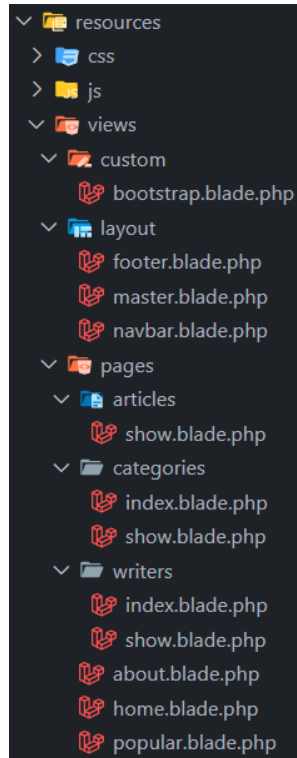
You, 3 hours ago | 1 author (You)
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Writer extends Model
{
    use HasFactory;
    public function articles()
    {
        return $this->hasMany(Article::class);
    }
}
```

E. View



```
@extends('layout.master')

@section('content')
    <div class="container-fluid px-0">
        <div class="container">
            <h4>{{ $article->course->category->name }}</h4>

            <div class="row">
                <div class="">
                    <div class="" style="background-color: #1E2832; height: 400px;">
                        <div class="d-flex align-items-center justify-content-center h-100">
                            <div class="text-white">
                                <h4>{{ $article->title }}</h4>
                            </div>
                        </div>
                    </div>
                </div>
                <div class="col-lg-12">
                    <div class="text-muted mb-4">
                        {{ $article->published_at }} by {{ $article->writer->name }}
                    </div>
                    <p>{{ $article->content }}</p>
                </div>
            </div>
        </div>
    </div>
@endsection
```

```

@extends('layout.master')

@section('content')
<div class="container py-4">
  <h1 class="mb-4">{{ $category->name }}</h1>

  @foreach ($courses as $course)
    <h2 class="visually-hidden">{{ $course->name }}</h2>
    <ul class="list-unstyled row gy-4">
      @foreach ($course->articles as $article)
        <li class="col-12">
          <div class="card border=0 rounded-4 overflow-hidden shadow-sm">
            <div class="row g-0">
              <div class="col-md-4">
                <div class="course-card h-100 p-4"
                  style="background-color: {{ $loop->parent->iteration == 1 ? '#1E2832' : '#1E2832' }};>
                  <div class="d-flex align-items-center justify-content-center h-100">
                    <div class="text-white">
                      <h4>{{ $article->title }}</h4>
                    </div>
                    <div>You, 9 minutes ago • feat: finished</div>
                  </div>
                </div>
              </div>
              <div class="col-md-8">
                <div class="card-body d-flex flex-column h-100">
                  <div>
                    <h5 class="card-title mb-2">{{ $article->title }}</h5>
                    <p class="text-muted small mb-2">{{ $article->created_at->format('d M Y') }} by
                      {{ $article->writer->name }}</p>
                    <p class="card-text">
                      {{ Str::limit($article->description ?? $article->content, 100) }}</p>
                  </div>
                  <div class="text-end mt-auto">
                    <a href="{{ route('article.show', $article) }}"
                      class="btn btn-dark rounded-pill px-4">Read More...</a>
                  </div>
                </div>
              </div>
            </div>
          </div>
        </li>
      </foreach>
    </ul>
  </foreach>
</div>

```

```

@extends('layout.master')

@section('content')
<div class="container py-5" style="height: 84vh">
  <h1 class="mb-5">Our Writers:</h1>

  <div class="row justify-content-start g-4">
    @foreach ($writers as $writer)
      <div class="col-md-4 text-center">
        <div class="writer-card">
          <div class="writer-image-container position-relative mb-4">
            <div class="writer-image-wrapper">
              <img src="" class="img-fluid rounded-circle bg-white">
            </div>
          </div>
          <a href="{{ route('writer.show', $writer) }}">{{ $writer->name }}</a>
          <p class="text-muted mb-0">Specialis</p>
        </div>
      </div>
    </foreach>
  </div>
</div>

```

```

@extends('layout.master')

@section('content')
<div class="row gy-4 mx-5">
  <h1>Articles by {{ $writer->name }}</h1>
  @foreach ($articles as $article)
    <div class="col-12">
      <div class="card border=0 rounded-4 overflow-hidden shadow-sm">
        <div class="row g-0">
          <div class="col-md-4">
            <div class="course-card h-100 p-4" style="background-color: #1E2832">
              <div class="d-flex align-items-center justify-content-center h-100">
                <div class="text-white">
                  <h4>{{ $article->title }}</h4>
                </div>
              </div>
            </div>
          </div>
          <div class="col-md-7">
            <div class="card-body">
              <h5 class="card-title mb-3">{{ $article->title }}</h5>
              <h6 class="card-title mb-3">{{ $article->published_at }} by {{ $article->writer->name }}</h6>
              <p class="card-text text-muted">{{ Str::limit($article->content, 300) }}</p>
              <div class="text-end">
                <a href="{{ route('article.show', $article) }}"
                  class="btn btn-dark rounded-pill px-4">Read More...</a>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </foreach>
</div>

```



```

You 2 hours ago | 1 author (you)
<?php

namespace Database\Seeders;

use App\Models\Article;
use App\Models\Category;
use App\Models\Course;
use App\Models\PopularArticle;
use App\Models\User;
use App\Models\Writer;
// use Illuminate\Database\Console\Seeds\WithoutModelEvents;
use Illuminate\Database\Seeder;

You 2 hours ago | 1 author (you)
You 3 hours ago | 1 author (you)
class DatabaseSeeder extends Seeder
{
    public function run(): void
    {
        $dataScience = Category::create(['name' => 'Data Science']);
        $machineLearning = Course::create(['name' => 'Machine Learning', 'category_id' => $dataScience->id]);
        $deepLearning = Course::create(['name' => 'Deep Learning', 'category_id' => $dataScience->id]);
        $nlp = Course::create(['name' => 'Natural Language Processing', 'category_id' => $dataScience->id]);

        $networkSecurity = Category::create(['name' => 'Network Security']);
        $softwareSecurity = Course::create(['name' => 'Software Security', 'category_id' => $networkSecurity->id]);
        $networkAdmin = Course::create(['name' => 'Network Administration', 'category_id' => $networkSecurity->id]);
        $networkTech = Course::create(['name' => 'Popular Network Technology', 'category_id' => $networkSecurity->id]);

        $writer1 = Writer::factory()->create(['name' => 'Raka Putra Wicaksono']);
        $writer2 = Writer::factory()->create(['name' => 'Bia Mecca Annisa']);
        $writer3 = Writer::factory()->create(['name' => 'Abi Firmansyah']);

        Article::factory()->create([
            'course_id' => $machineLearning->id,
            'writer_id' => $writer1->id,
            'title' => $machineLearning->name
        ]);

        Article::factory()->create([
            'course_id' => $deepLearning->id,
            'writer_id' => $writer2->id,
            'title' => $deepLearning->name
        ]);

        Article::factory()->create([
            'course_id' => $nlp->id,
            'writer_id' => $writer3->id,
            'title' => $nlp->name
        ]);

        Article::factory()->create([
            'course_id' => $softwareSecurity->id,
            'writer_id' => $writer1->id,
            'title' => $softwareSecurity->name
        ]);

        Article::factory()->create([
            'course_id' => $networkAdmin->id,
            'writer_id' => $writer2->id,
            'title' => $networkAdmin->name
        ]);

        Article::factory()->create([
            'course_id' => $networkTech->id,
            'writer_id' => $writer3->id,
            'title' => $networkTech->name
        ]);

        foreach (Article::all() as $article) {
            PopularArticle::create([
                'article_id' => $article->id,
                'views' => rand(1000, 10000)
            ]);
        }
    }
}

```

G. Homepage



H. Category

EduFun

Home

Category

Writers

About Us

Popular

Data Science

Network Security



Machine Learning

Machine Learning

2021-09-04 by Raka Putra Wicaksono

Eveniet molestias veniam veritatis voluptatem dolore qui. Praesentium est eum consequatur quia. Aspernatur neque accusamus dolores. Perferendis provident optio aperiam sapiente et cumque odit aut. Facilis molestias debitis et autem. Fugit accusantium molestias qui quod officia sunt. Aut velit dolo...

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Deep Learning

Deep Learning

1983-01-22 by Bia Mecca Annisa

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01 Nov 2024 by Raka Putra Wicaksono

Eveniet molestias veniam veritatis voluptatem dolore qui. Praesentium est eum consequatur quia. Asp...

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Deep Learning

Deep Learning

01 Nov 2024 by Bia Mecca Annisa

Inventore nesciunt sint et qui sint sit. Non quae voluptatem aliquid tenetur repellendus qui. Nobis...

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Natural Language Processing

Natural Language Processing

01 Nov 2024 by Abi Firmansyah

Ut consequatur quo consequatur aut tenetur voluptatem. Suscipit explicabo eum ut sit tempora sapient...

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Network Security

Software Security

Software Security

01 Nov 2024 by Raka Putra Wicaksono

Est nemo ut nemo mollitia. Voluptatum autem aperiam quia. Omnis sequi sit nisi deserunt. Aut et sunt...

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Network Administration

Network Administration

01 Nov 2024 by Bia Mecca Annisa

Modi sint eum eum ea nihil vero. Magni amet ea dolor non inventore ducimus voluptatem nobis. Minima...

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Popular Network Technology

Popular Network Technology

01 Nov 2024 by Abi Firmansyah

Nostrum consectetur ea sint necessitatibus expedita necessitatibus aut. Soluta ea dignissimos dolore...

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I. Writers

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Our Writers:

Raka Putra Wicaksono

Spesialis

Bia Mecca Annisa

Spesialis

Abi Firmansyah

Spesialis

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J. About Us

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About EduFun

EduFun adalah perusahaan pendidikan berbasis teknologi asal Indonesia. EduFun menyediakan layanan akses pendidikan dalam format tulisan berbahasa Indonesia yang disajikan secara online melalui website.

Hingga Juni 2024, EduFun memiliki lebih dari 10 ribu pengguna. EduFun hadir sebagai bentuk revolusi dari pendidikan di Indonesia dengan mengedepankan cara berpikir kritis, logis, rasional, dan sumber pengetahuan yang terintegrasi terhadap semua mahasiswa IT di Indonesia. EduFun bercita-cita mencetak generasi Indonesia yang memahami ilmu pengetahuan dan cinta belajar.

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K. Popular

EduFun

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Popular Articles

Network Administration

467 views
2014-10-15 by Bia Mecca Annisa

Modi sint eum eum ea nihil vero. Magni amet ea dolor non inventore ducimus voluptatem nobis. Minima adipisci asperiores blanditis qui quia non laboriosam. Doloremque at nobis ab ut molestiae accusamus quo nisi. Sit est voluptatem aut. Perferendis cupiditate omnis alias sed inventore sunt aut unde...

Read More...

Machine Learning

422 views
2021-09-04 by Raka Putra Wikasono

Enim sit molestias veniam veritatis voluptatem dolorem qui. Praesentium est eum consequatur quia. Aspernatur neque accusamus dolores. Perferendis provident optio aperiam sapiente et cumque odit aut. Facilis molestias debitis et autem. Fugit accusantium molestias qui quod officia sunt. Aut velit dolo...

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Natural Language Processing

303 views
1984-11-10 by Abi Firmansyah

Ut consequatur quo consequatur aut tenetur voluptatem. Suscipit explicabo eum ut ut tempora sapiente et. Etenim libero illum itaque quaeque eum. Quibusdam laudantium esse adipisci non blanditis labore perspiciatis. Soluta odit sed perspiciatis magnam accusantium quos harum. Recurrido voluptatem su...

Read More...

1

2

3

L. Detail Articles

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Network Security

Network Administration

2014-10-15 by Bia Mecca Annisa

Modi sint eum eum ea nihil vero. Magni amet ea dolor non inventore ducimus voluptatem nobis. Minima adipisci asperiores blanditis qui quia non laboriosam. Doloremque et nobis ab ut molestiae accusamus quo nisi. Sit est voluptatem aut. Perferendis cupiditate omnis alias sed inventore sunt aut similique. Error est voluptas sit expedita ea. Voluptas et molestias doloribus iusto. Consequatur et pariatur ullam aperiam. Velit asperiores neque nulla quia. Eos nihil enim ipsam labore. Iure sint fugiat cum sed nisi sint et. Voluptas officia id deserunt eligendi blanditis magni. Beatae molestiae culpa qui unde fugiat qui rerum. Dolor magni quia et consequatur id soluta. Odit qui ex praesentium non quia omnis quibusdam quod. At et repellendus voluptatem voluptates modi in enim. Veritatis et facilis fugit eum aspernatur dolores voluptas beatae.

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M. Writer Articles

Articles by Raka Putra Wicaksono

Machine Learning

Machine Learning

2021-09-04 by Raka Putra Wicaksono

Eveniet molestias veniam veritatis voluptatem dolorem qui. Praesentium est eum consequatur quia. Aspernatur neque accusamus dolores. Perferendis provident optio aperiam sapiente et cumque odit aut. Facilis molestias debitis et autem. Fugit accusantium molestias qui quod officia sunt. Aut velit dolo...

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Software Security

Software Security

1978-03-26 by Raka Putra Wicaksono

Est nemo ut nemo mollitia. Voluptatum autem aperiam quia. Omnis sequi sit nisi deserunt. Aut et sunt quo. Fuga voluptatem placeat laudantium consequatur velit illo eligendi. Sint molestiae architecto blanditiis perspicatis doloribus placeat iure. Non totam nesciunt et dignissimos ipsam qui. Est es...

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