

## 1. Routing

```
Route::get('/', [Navigation::class, 'indexPage'])->name('indexPage');
Route::get('/category/{category_name}', [Navigation::class, 'categoryPage'])->name('categoryPage');
Route::get('/course/{course_name}', [Navigation::class, 'courseDetail'])->name('courseDetail');
Route::get('/writers', [Navigation::class, 'writersPage'])->name('writerPage');
Route::get('/writer/{writer_id}', [Navigation::class, 'writerDetailPage'])->name('writerDetailPage');
Route::get('/about-us', [Navigation::class, 'aboutUsPage'])->name('aboutUsPage');
Route::get('/popular', [Navigation::class, 'popularPage'])->name('popularPage');
```

- Route “/”, akan mengarahkan page ke bagian index atau HomePage dengan memanggil function indexPage dari class Navigation.
- Route “/category/{category\_name}”, akan mengarahkan page ke bagian detail category dengan memanggil function categoryPage dari class Navigation dengan parameter category\_name.
- Route “/course/{course\_name}”, akan mengarahkan page ke bagian detail dari sebuah course dengan memanggil function courseDetail dari class Navigation.
- Route “/writers”, akan mengarahkan page ke bagian writers dengan memanggil function writerPage dari class Navigation.
- Route “/writer/{writer\_id}”, akan mengarahkan page ke bagian detail dari writer dan course yang dia tulis dengan memanggil function writerDetailPage dari class Navigation.
- Route “/about-us”, akan mengarahkan page ke bagian about us dengan memanggil function aboutUsPage dari class Navigation.
- Route “/popular”, akan mengarahkan page ke bagian popular dengan memanggil function popularPage dari class Navigation.

## 2. Controller

```
class Navigation extends Controller
{
    /** reference | @overrides */
    public function indexPage(): Factory\View
    {
        $categories = Category::all();
        $courses = Course::all();

        return view(view: 'index', data: compact(var_name: 'categories', var_names: 'courses'));
    }

    /** reference | @overrides */
    public function categoryPage($category_name): Factory\View
    {
        $categories = Category::all();
        $searchedCategoryID = $categories->where(key: 'name', operator: $category_name)->first();
        $searchedCategoryID = $searchedCategoryID->id;
        $courses = Course::with(relations: 'category', 'writer')->where(column: 'category_id', operator: $searchedCategoryID)->get();

        return view(view: 'category.index', data: compact(var_name: 'categories', var_names: 'courses', 'category_name'));
    }
}
```

```

1 reference | 0 overrides
public function courseDetail($course_name): Factory|View
{
    $categories = Category::all();
    $course = Course::with(relations: 'writer', 'category')->where(column: 'name', operator: $course_name)->first();

    return view(view: 'category.detail', data: compact(var_name: 'categories', var_names: 'course'));
}

1 reference | 0 overrides
public function writersPage(): Factory|View
{
    $categories = Category::all();
    $writers = Writer::all();

    return view(view: 'writers.index', data: compact(var_name: 'categories', var_names: 'writers'));
}

1 reference | 0 overrides
public function writerDetailPage($writer_id): Factory|View
{
    $categories = Category::all();
    $courses = Course::with(relations: 'writer')->where(column: 'writer_id', operator: 'LIKE', value: $writer_id)->get();
    $writer = Writer::findOrFail(id: $writer_id);

    return view(view: 'writers.detail', data: compact(var_name: 'categories', var_names: 'courses', 'writer'));
}

1 reference | 0 overrides
public function aboutUsPage(): Factory|View
{
    $categories = Category::all();

    return view(view: 'about-us', data: compact(var_name: 'categories'));
}

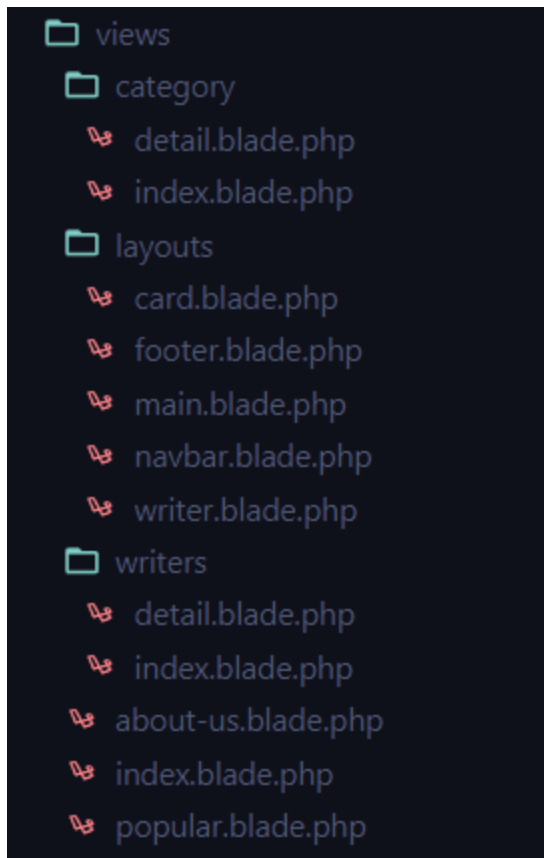
1 reference | 0 overrides
public function popularPage(): Factory|View
{
    $categories = Category::all();
    $courses = Course::with(relations: 'writer')->orderBy(column: 'name')->paginate(perPage: 3);

    return view(view: 'popular', data: compact(var_name: 'categories', var_names: 'courses'));
}

```

- a. indexPage => Berfungsi untuk mengembalikan page index dengan semua course dan semua category.
- b. categoryPage => Berfungsi untuk mengembalikan detail category page dengan semua course yang dipilih menggunakan parameter category\_name.
- c. courseDetail => Berfungsi untuk mengembalikan detail dari course dengan parameter course\_name.
- d. writerPage => Berfungsi untuk mengembalikan detail dari semua data writer.
- e. writerDetailPage => Berfungsi untuk mengembalikan data dari writer yang dipilih dan menampilkan semua course yang ditulisnya.
- f. aboutUsPage => Berfungsi untuk mengembalikan page about us.
- g. popularPage => Berfungsi untuk mengembalikan popular page dengan urutan ascending dengan pagination.

### 3. Views



#### 4. Model

```
11 references | 0 implementations
9  class Category extends Model
0  {
    0 references
1  |   protected $table = "categories";
    0 references
2  |   protected $guarded = [];
3  |
    0 references | 0 overrides
4  |   public function course() : HasMany
5  |   {
6  |       return $this->hasMany(related: („Course::class));
7  |   }
8  |
9  |   }
0  }
```

```

7
10 references | 0 implementations
8 class Course extends Model
9 {
    0 references
10     protected $table = "courses";
    0 references
11     protected $guarded = [];
12
    0 references | 0 overrides
13     public function category():BelongsTo{
14         return $this->belongsTo(related: Category::class);
15     }
16
    0 references | 0 overrides
17     public function writer(): BelongsTo{
18         return $this->belongsTo(related: Writer::class);
19     }
20 }
21

```

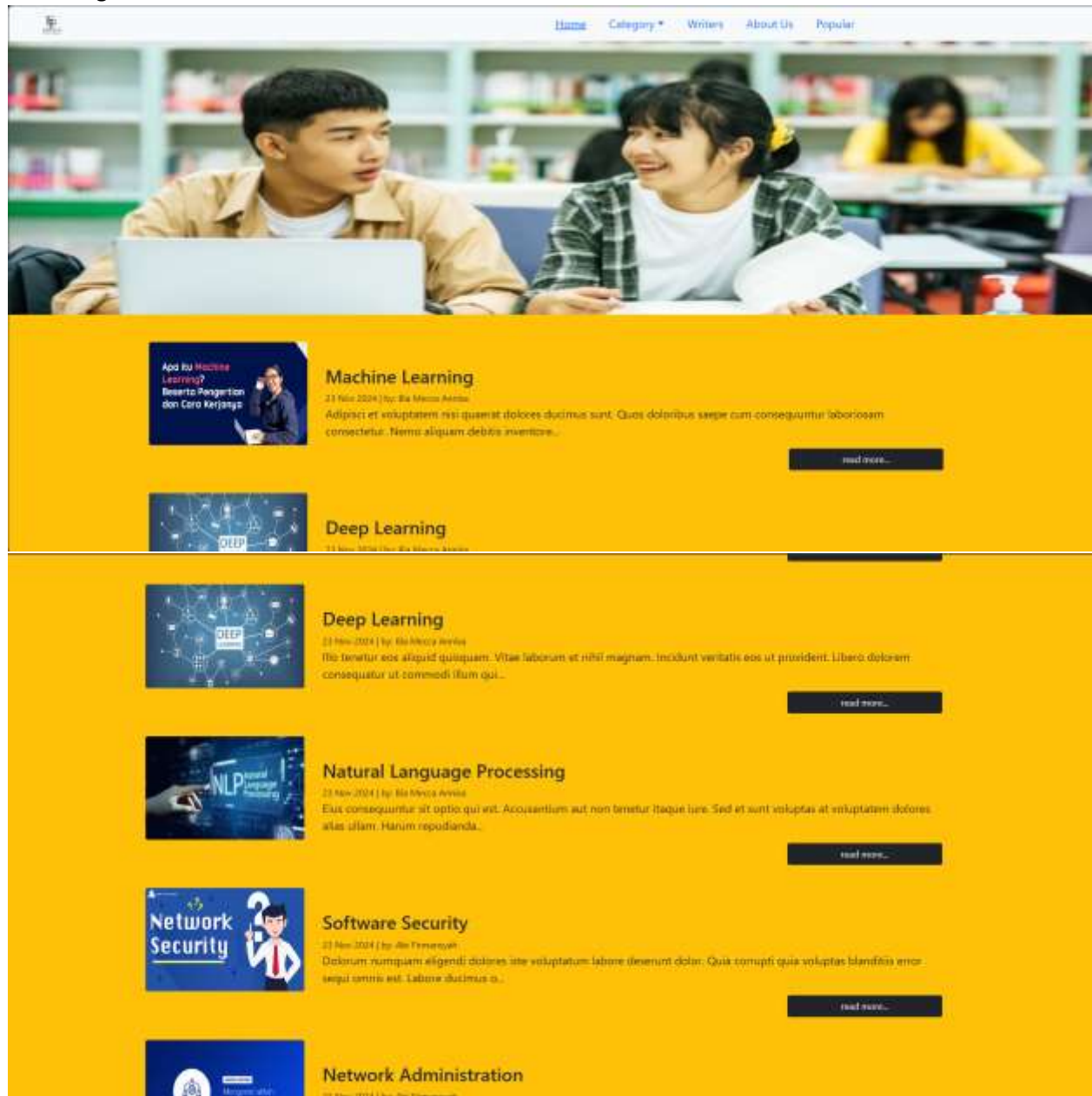
```

8 class Writer extends Model
9 {
    0 references
10     protected $table = 'writers';
    0 references
11     protected $guarded = [];
12
    0 references | 0 overrides
13     public function course():HasMany{
14         return $this->hasMany(related: Course::class);
15     }
16 }
17

```

- a. Category memiliki relation hasMany dengan Course, yang artinya satu Category bisa memiliki banyak Course.
- b. Course memiliki relation belongsTo dengan Category dan Writer, yang artinya satu Course hanya bisa memiliki satu Category dan juga Writer.
- c. Writer memiliki relation hasMany dengan Course, yang artinya satu Writer bisa memiliki banyak Course.

5. User Interface  
a. HomePage



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b. CategoryPage

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c. Detail/read more...

## Data Science



### Apa itu Machine Learning? Beserta Pengertian dan Cara Kerjanya

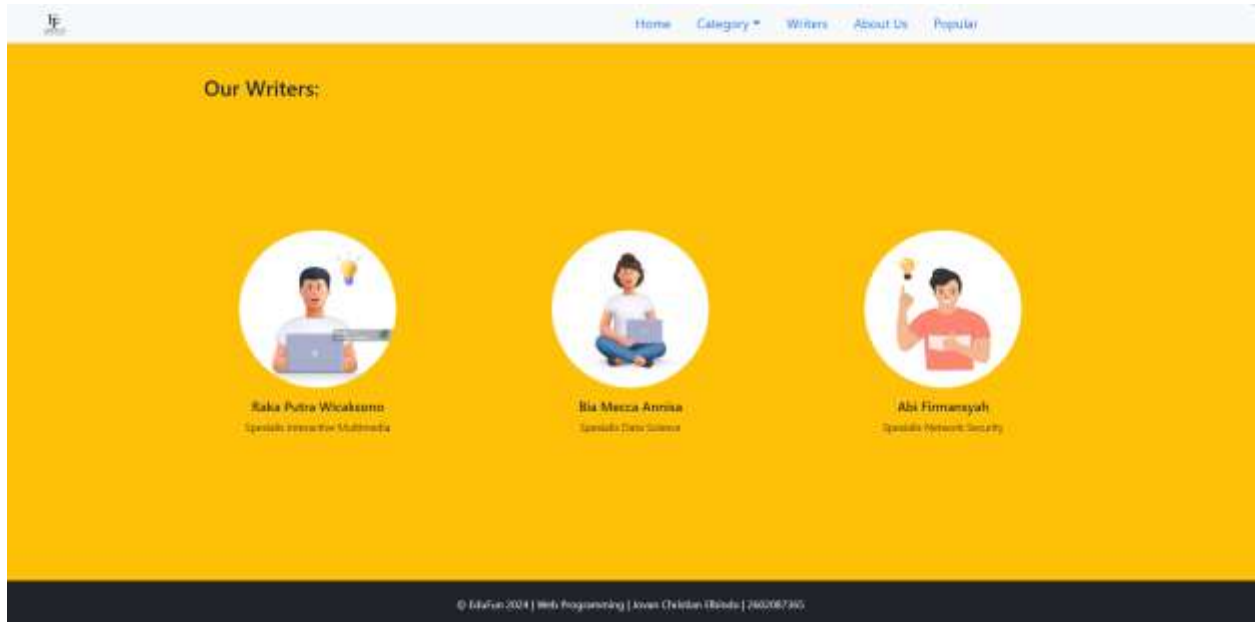
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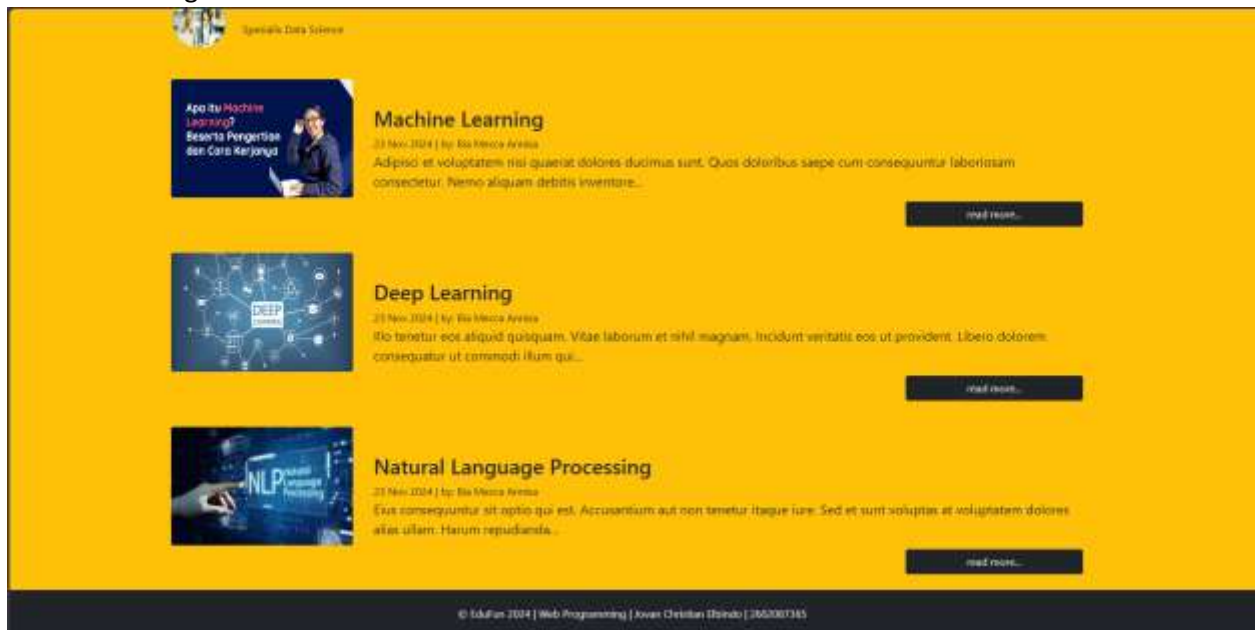
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d. WriterPage

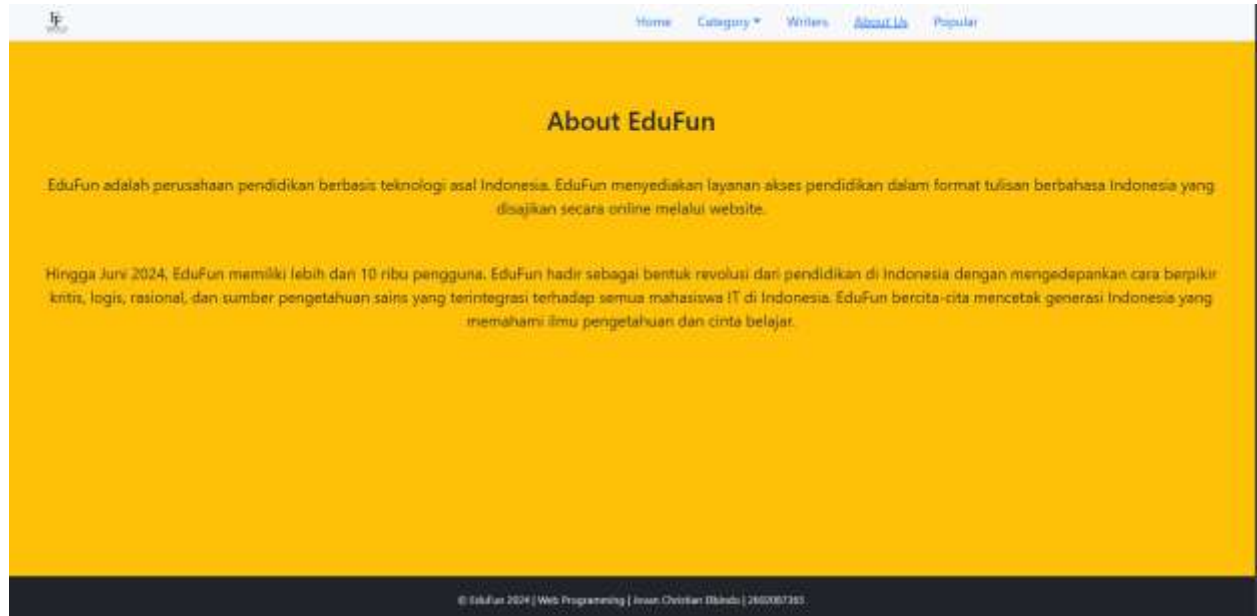


e. WriterDetailPage

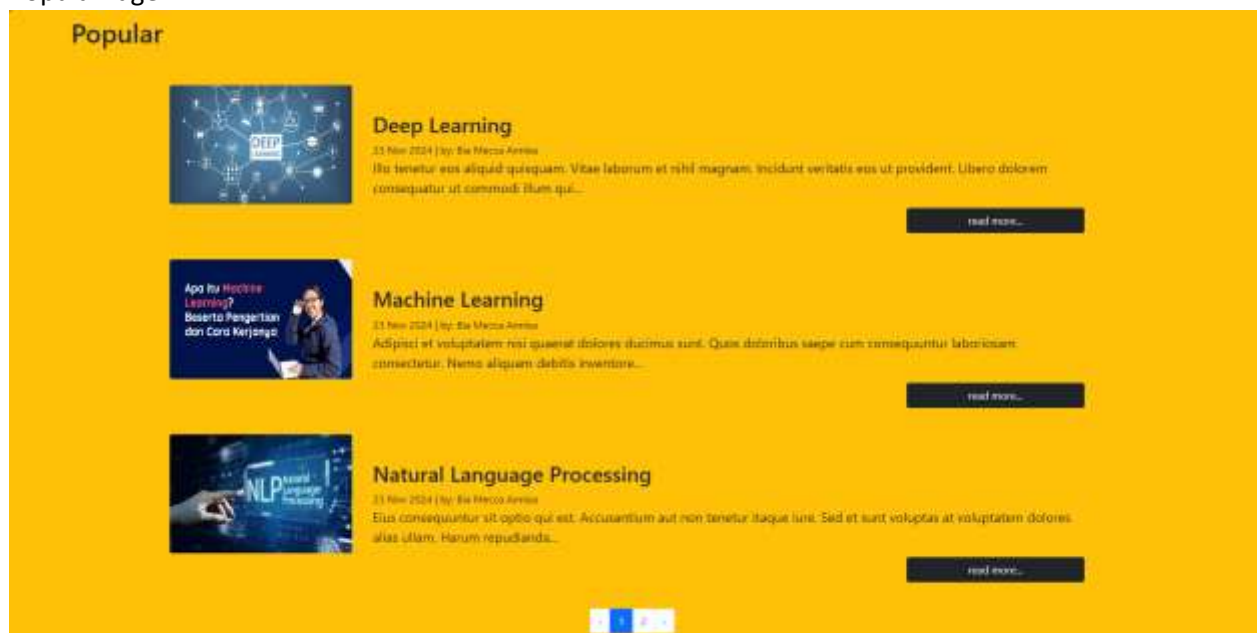


f. About Us





g. PopularPage





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