

# Web Programming Quiz

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## Routing

```
routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4  use App\Http\Controllers\ArticleController;
5  use App\Http\Controllers\WriterController;
6
7  Route::get('/', [ArticleController::class, 'home'])->name('home');
8  Route::get('/data-science', [ArticleController::class, 'showDataScienceArticles'])->name('data_science');
9  Route::get('/network-security', [ArticleController::class, 'showNetworkSecurityArticles'])->name('network_security');
10 Route::get('/article/{id}', [ArticleController::class, 'showArticleDetail'])->name('article_detail');
11 Route::get('/writers', [WriterController::class, 'showWriters'])->name('writers');
12 Route::get('/writer/{id}/articles', [ArticleController::class, 'showWriterArticles'])->name('writer_articles');
13 Route::get('/about', function () {return view('other/about');})->name('about');
14 Route::get('/popular', [ArticleController::class, 'showPopularArticles'])->name('popular');
```

URL	Controller / Action	Route Name	Description
/	ArticleController@home	home	Homepage, shows latest articles
/data-science	ArticleController@showDataScienceArticles	data_science	Shows articles about Data Science
/network-security	ArticleController@showNetworkSecurityArticles	network_security	Shows articles about Network Security
/article/{id}	ArticleController@showArticleDetail	article_detail	Shows detail of a single article
/writers	WriterController@showWriters	writers	Lists all writers
/writer/{id}/articles	ArticleController@showWriterArticles	writer_articles	Lists articles by a specific writer
/about	Closure (returns view)	about	About page
/popular	ArticleController@showPopularArticles	popular	Shows popular articles

# Controller

**app\Http\Controllers\ArticleController.php**

Method	Description
home()	Shows the homepage with the 2 latest articles (with writers)
showDataScienceArticles()	Lists all articles in the "Data Science" category (with writers)
showNetworkSecurityArticles()	Lists all articles in the "Network Security" category (with writers)
showArticleDetail(\$id)	Shows the detail of a single article by ID (with writer)
showWriterArticles(\$id)	Lists all articles by a specific writer
showPopularArticles()	Shows popular articles with pagination (3 per page, with writers)

**app\Http\Controllers\WriterController.php**

Method	Description
showWriters()	Lists all writers

# Model

**app\Models\Article.php**

**Table:** articles

**Fillable Fields:**

- title – Article title
- content – Article content
- image\_path – Path to article image
- category – Article category (e.g., Data Science, Network Security)
- writer\_id – Foreign key referencing the writer

**Relationships:**

- writer() – Belongs to Writer model

app\Models\Writer.php

**Table:** writers

**Fillable Fields:**

- name – Writer's name
- bio – Short biography
- photo\_path – Path to writer's photo

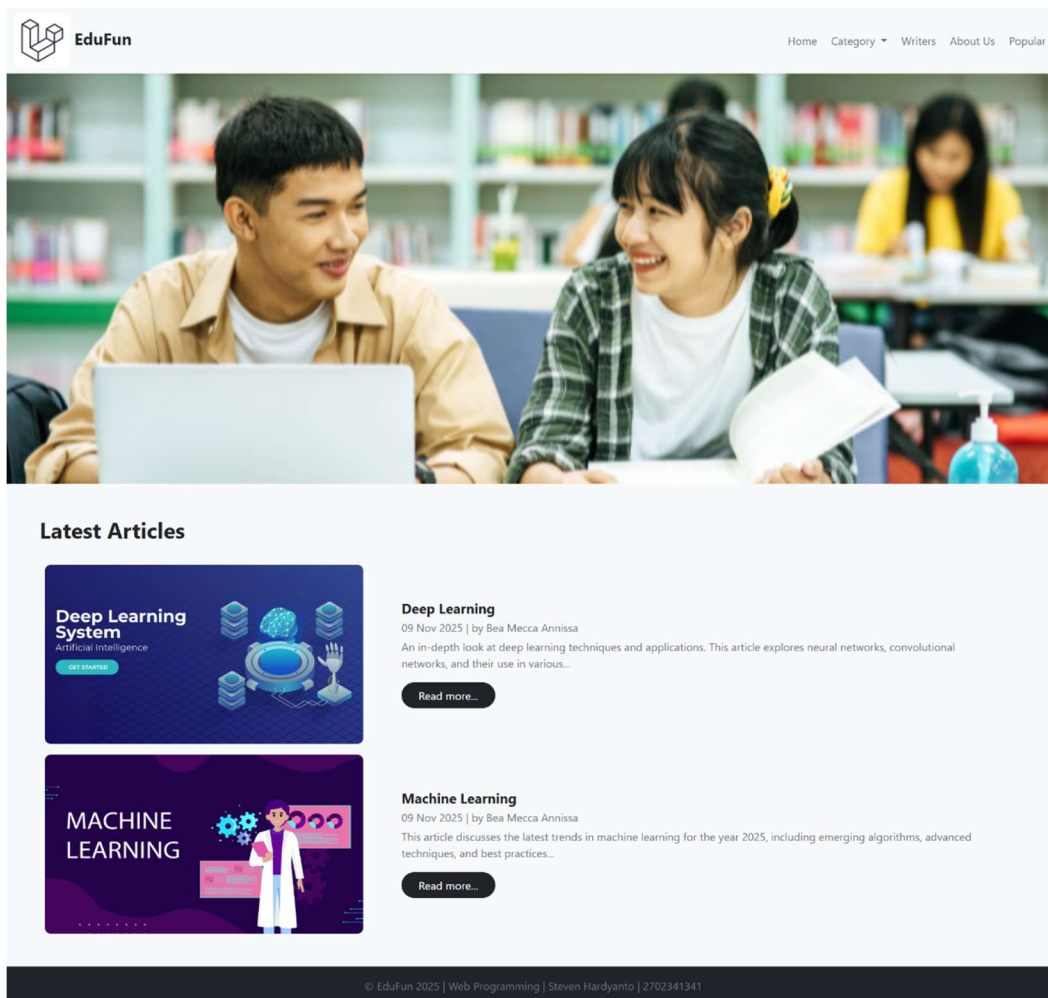
**Relationships:**

- articles() – Has many Article models

## View

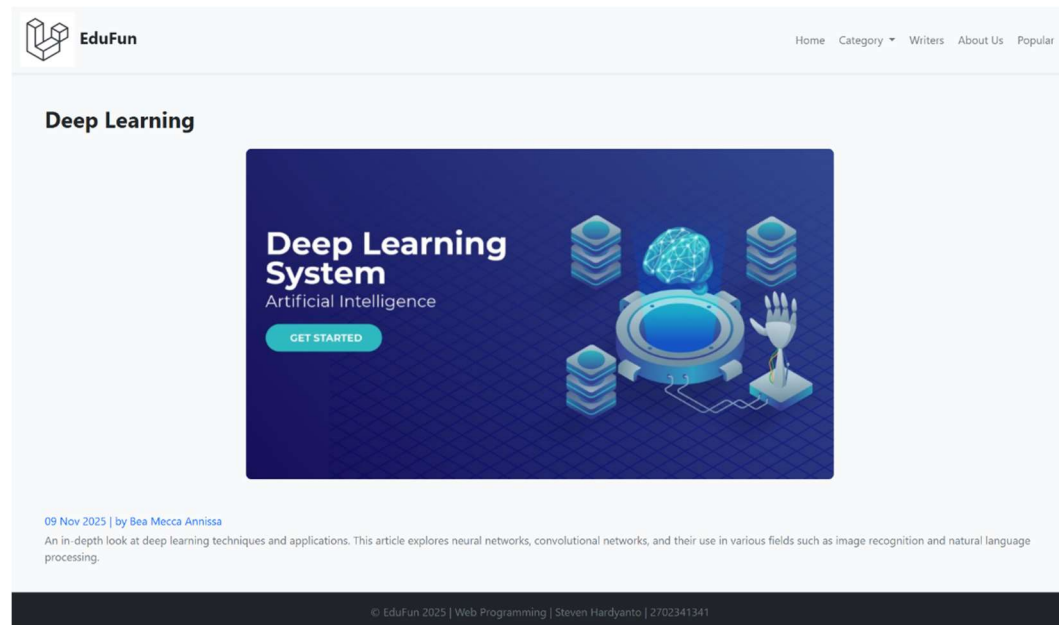
resources\views\home.blade.php

/



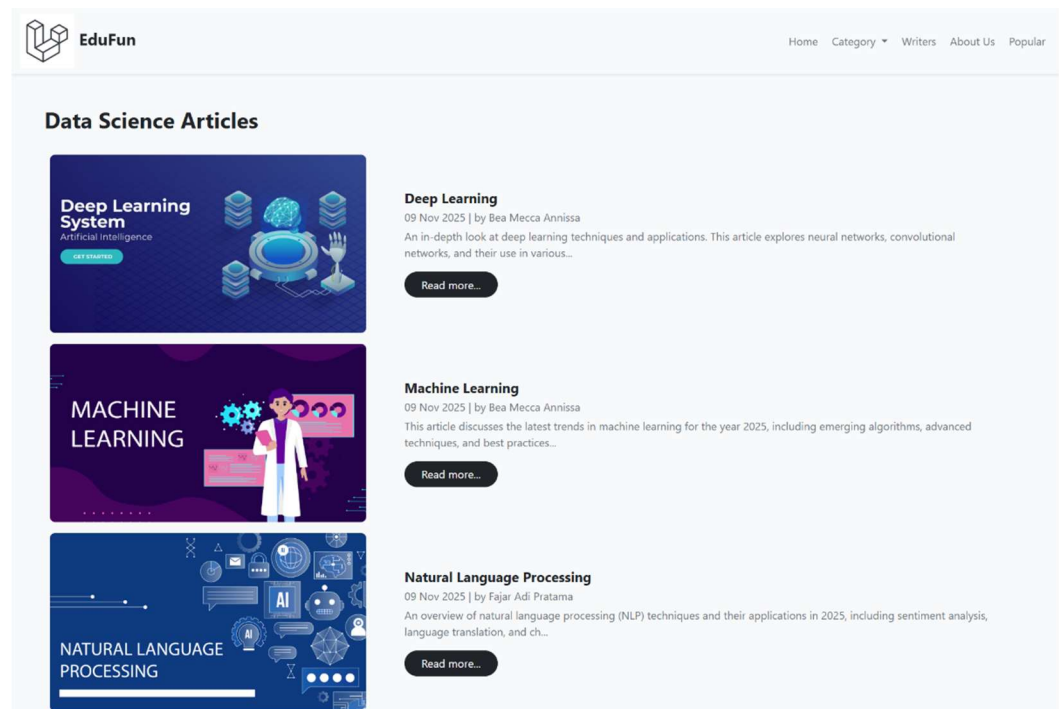
resources\views\article\article\_detail.blade.php

/article/{id}



resources\views\article\data\_science.blade.php

/data-science



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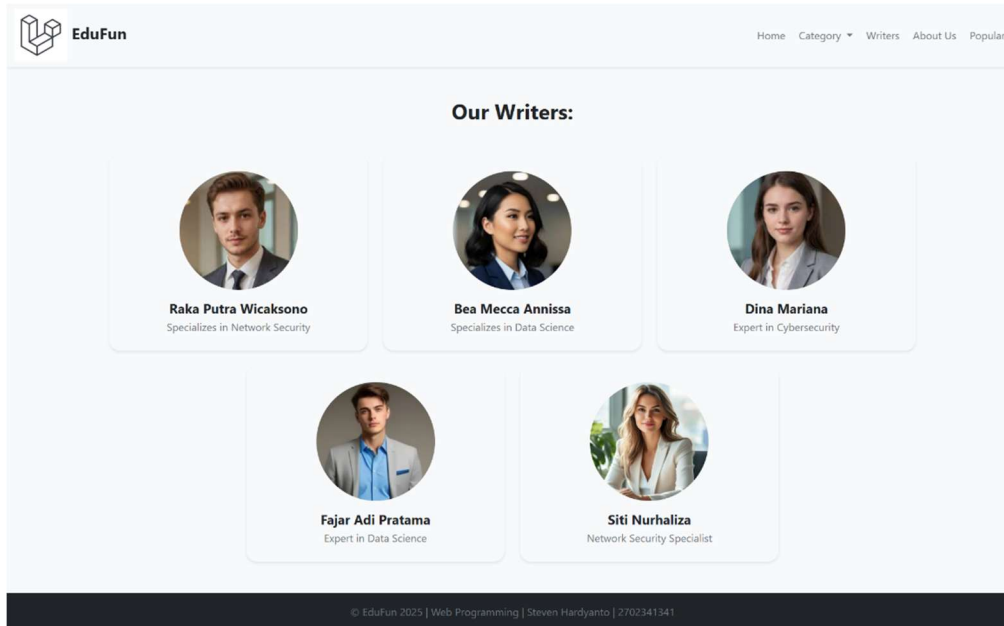
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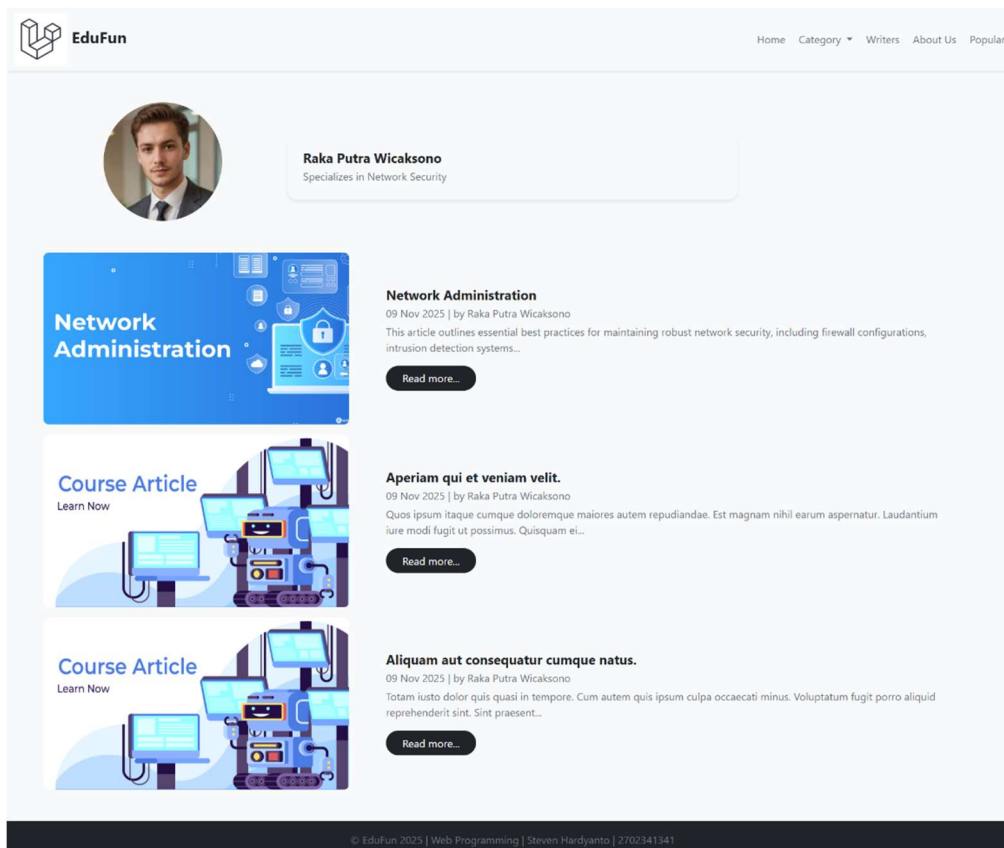
resources\views\writer\writer.blade.php

/writers



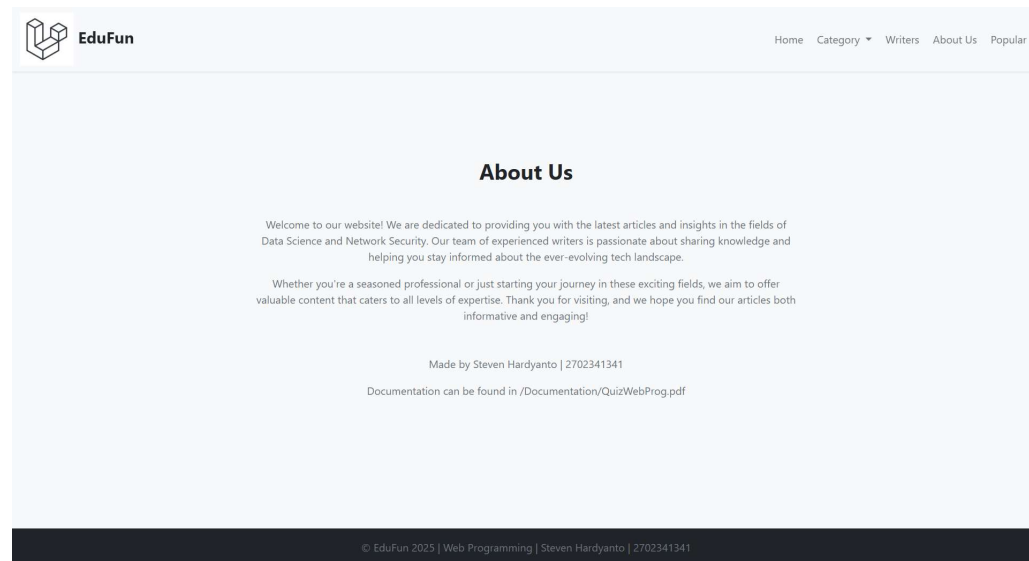
resources\views\article\writer\_article.blade.php

/writer/{id}/articles



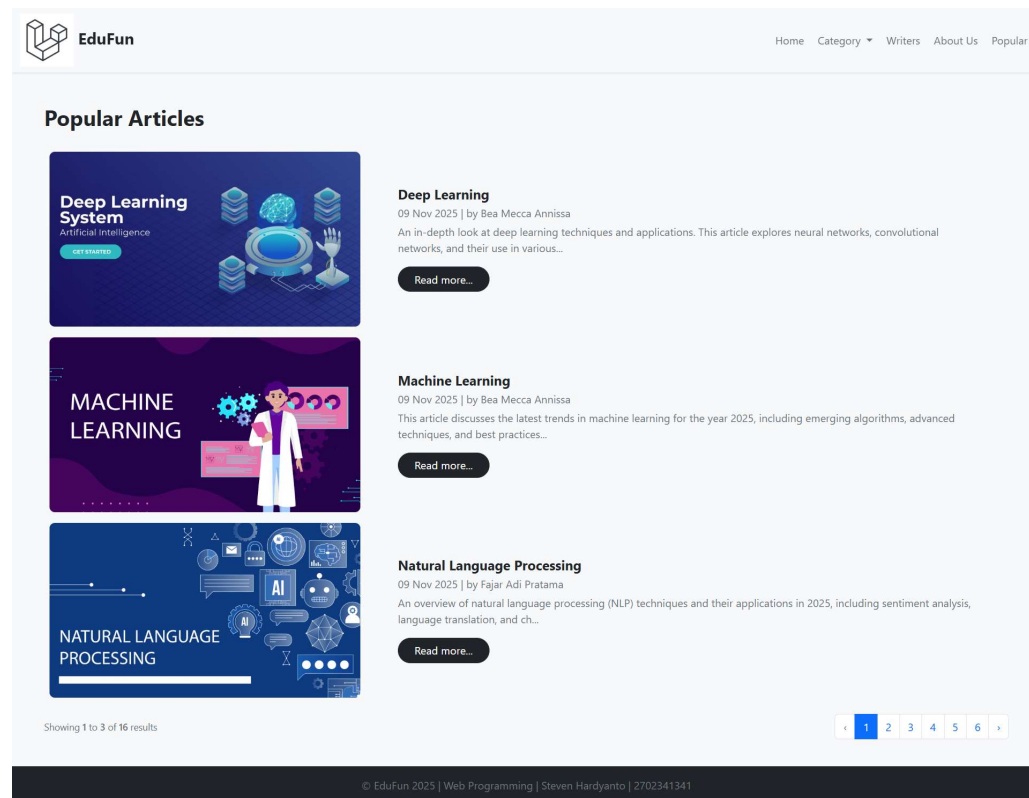
resources\views\other\about.blade.php

/about



resources\views\other\popular.blade.php

/popular



## Others

<code>resources\views\layout\bootstrap.blade.php</code>	Bootstrap
<code>resources\views\layout\footer.blade.php</code>	Footer template layout
<code>resources\views\layout\header.blade.php</code>	Header template layout
<code>resources\views\layout\master.blade.php</code>	Master template layout

# Migration

## Writers Table Migration

**Table:** writers

### Columns:

- id – Primary key (auto-increment)
- name – Writer's name (string, required)
- bio – Writer biography (text, optional)
- photo\_path – Path to writer's photo (string, optional)
- created\_at / updated\_at – Timestamps (Laravel default)

### Down Method:

- Drops the writers table if it exists

## Articles Table Migration

**Table:** articles

### Columns:

- id – Primary key (auto-increment)
- title – Article title (string, required)
- content – Article content (longtext, required)
- image\_path – Path to article image (string, optional)
- category – Article category (Data Science or Network Security)
- writer\_id – Foreign key referencing writers.id (cascade on update/delete)
- created\_at / updated\_at – Timestamps (Laravel default)

### Down Method:

- Drops the articles table if it exists



## Seeder

Path	Description	Amount
database\seeders\ArticleSeeder.php	Article Seeder and Faker	6 seeder 10 faker articles
database\seeders\WriterSeeder.php	Writer Seeder	5 seeder writers

## Database Name (MySQL)

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## Github Link

<https://github.com/stveen12/Quiz-WebProg>