

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

/

The screenshot shows the EduFun website homepage. At the top, there is a navigation bar with links for Home, Category, Writers, About Us, and Popular. Below the navigation bar, there is a large image of two students, a boy and a girl, sitting at a desk in a library, looking at a laptop together and smiling. Underneath this image, there is a section titled "Latest Articles". The first article is titled "Deep Learning System" and is categorized under "Artificial Intelligence". It features a blue background with white text and some icons related to neural networks. The second article is titled "Machine Learning" and features a purple background with white text and some icons related to machine learning. Both articles have a "Read more..." button at the bottom.

resources\views\article\article_detail.blade.php

/article/{id}

The screenshot shows a web page titled "Deep Learning" from the "EduFun" website. The main content area features a large, dark blue banner with the title "Deep Learning System" and subtitle "Artificial Intelligence". Below the banner is a "GET STARTED" button and a 3D illustration of a neural network, a brain, and a robotic hand. At the bottom of the page, there is a footer bar with the text "© EduFun 2025 | Web Programming | Steven Hardyanto | 2702341341".

resources\views\article\data_science.blade.php

/data-science

The screenshot shows a web page titled "Data Science Articles" from the "EduFun" website. It displays three featured articles: "Deep Learning System" (with a "GET STARTED" button and a 3D illustration), "Machine Learning" (with an illustration of a person in a lab coat), and "Natural Language Processing" (with an illustration of various NLP icons). Each article has a "Read more..." button below it.

resources\views\article\network_security.blade.php

/network-security

The screenshot shows the EduFun website's article section for network security. The header features the EduFun logo and navigation links for Home, Category, Writers, About Us, and Popular. Below the header, a section titled "Network Security Articles" displays five cards, each representing a different article category:

- Network Administration**: An article by Raka Putra Wicaksono from November 2025. It discusses best practices for maintaining robust network security, including firewall configurations and intrusion detection systems. [Read more...](#)
- Popular Network Technologies**: An article by Dina Mariana from November 2025. It analyzes the latest network technologies in 2025, including software-defined networking, network function virtualization, and the rise of 5G. [Read more...](#)
- Software Security**: An article by Siti Nurhaliza from November 2025. It discusses best practices for ensuring software security, including secure coding practices, vulnerability assessments, and the importance of security in software development. [Read more...](#)
- Course Article**: A placeholder card with the text "Learn Now" and a blue background illustration of computer monitors and servers.
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resources\views\writer\writer.blade.php

/writers

The screenshot shows a grid of five writer profiles. Each profile card contains a circular profile picture, the writer's name, and a brief description of their specialization.

Our Writers:				
	Raka Putra Wicaksono Specializes in Network Security		Bea Mecca Annissa Specializes in Data Science	
	Fajar Adi Pratama Expert in Data Science		Siti Nurhaliza Network Security Specialist	

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resources\views\article\writer_article.blade.php

/writer/{id}/articles

The screenshot shows the 'Network Administration' article by Raka Putra Wicaksono. It includes a preview image, the article title, date, author, a snippet of the content, and a 'Read more...' button.

Network Administration
09 Nov 2025 | by Raka Putra Wicaksono
This article outlines essential best practices for maintaining robust network security, including firewall configurations, intrusion detection systems...

Read more...

Course Article
Learn Now

Aperiam qui et veniam velit.
09 Nov 2025 | by Raka Putra Wicaksono
Quos ipsum itaque cumque doloremque maiores autem repudlandae. Est magnam nihil earum aspernatur. Laudantium iure modi fugit ut possumus. Quisquam ei...

Read more...

Course Article
Learn Now

Aliquam aut consequatur cumque natus.
09 Nov 2025 | by Raka Putra Wicaksono
Totam iusto dolor quis quasi in tempore. Cum autem quis ipsum culpa occaecati minus. Voluptatum fugit porro aliquid reprehenderit sint. Sint praesent...

Read more...

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resources\views\other\about.blade.php

/about

The screenshot shows the EduFun website's 'About Us' page. At the top, there is a navigation bar with links to Home, Category, Writers, About Us, and Popular. The main content area features a heading 'About Us' and a paragraph about the website's mission to provide articles on Data Science and Network Security. Below this is another paragraph about the team's expertise and the website's purpose. At the bottom of the page, there is a footer with copyright information: '© EduFun 2025 | Web Programming | Steven Hardyanto | 2702341341'.

resources\views\other\popular.blade.php

/popular

The screenshot shows the EduFun website's 'Popular Articles' page. At the top, there is a navigation bar with links to Home, Category, Writers, About Us, and Popular. The main content area features a section titled 'Popular Articles' with three cards. The first card is for 'Deep Learning System' (Artificial Intelligence), featuring a blue background with icons related to AI and neural networks. The second card is for 'Machine Learning', featuring a purple background with a scientist icon. The third card is for 'Natural Language Processing', featuring a dark blue background with icons related to AI and language. Each card includes a title, author (e.g., Bea Mecca Annissa or Fajar Adi Pratama), a brief description, and a 'Read more...' button. At the bottom of the page, there is a footer with copyright information: 'Showing 1 to 3 of 16 results' and a page navigation bar with buttons for 1, 2, 3, 4, 5, 6, and >.

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)

Edufun

Github Link

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