

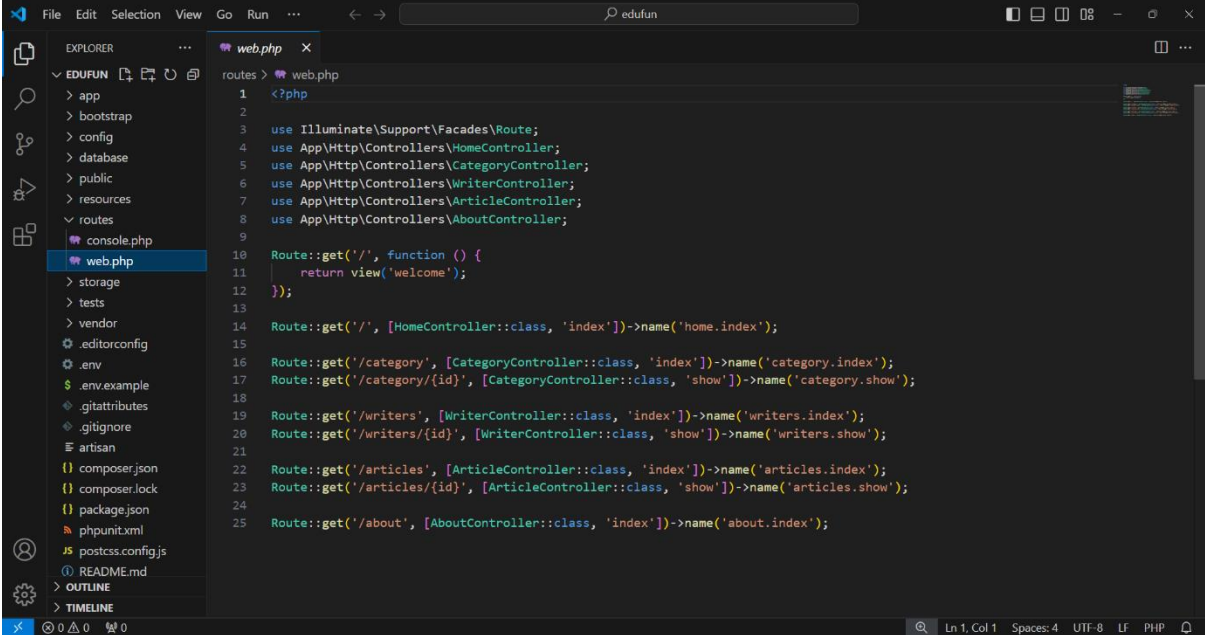
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## Quiz WebProg

### 1. Route



```
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\HomeController;
5 use App\Http\Controllers\CategoryController;
6 use App\Http\Controllers\WriterController;
7 use App\Http\Controllers\ArticleController;
8 use App\Http\Controllers\AboutController;
9
10 Route::get('/', function () {
11     return view('welcome');
12 });
13
14 Route::get('/', [HomeController::class, 'index'])->name('home.index');
15
16 Route::get('/category', [CategoryController::class, 'index'])->name('category.index');
17 Route::get('/category/{id}', [CategoryController::class, 'show'])->name('category.show');
18
19 Route::get('/writers', [WriterController::class, 'index'])->name('writers.index');
20 Route::get('/writers/{id}', [WriterController::class, 'show'])->name('writers.show');
21
22 Route::get('/articles', [ArticleController::class, 'index'])->name('articles.index');
23 Route::get('/articles/{id}', [ArticleController::class, 'show'])->name('articles.show');
24
25 Route::get('/about', [AboutController::class, 'index'])->name('about.index');
```

### 2. Controller

- HomeController

```
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\Home;
5 use Illuminate\Http\Request;
6
7 class HomeController extends Controller
8 {
9     public function index()
10     {
11         $categories = Category::all();
12         $articles = Article::latest()->take(5)->get();
13         return view('home', compact('categories', 'articles'));
14     }
15
16     public function about()
17     {
18         return view('about');
19     }
20 }
21
```

- CategoryController

```
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\Category;
5 use Illuminate\Http\Request;
6
7 class CategoryController extends Controller
8 {
9     public function index()
10     {
11         $categories = Category::all();
12         return view('category.index', compact('categories'));
13     }
14
15     public function show($id)
16     {
17         $category = Category::findOrFail($id);
18         $courses = Course::where('category_id', $id)->get();
19         return view('category.show', compact('category', 'courses'));
20     }
21 }
22
```

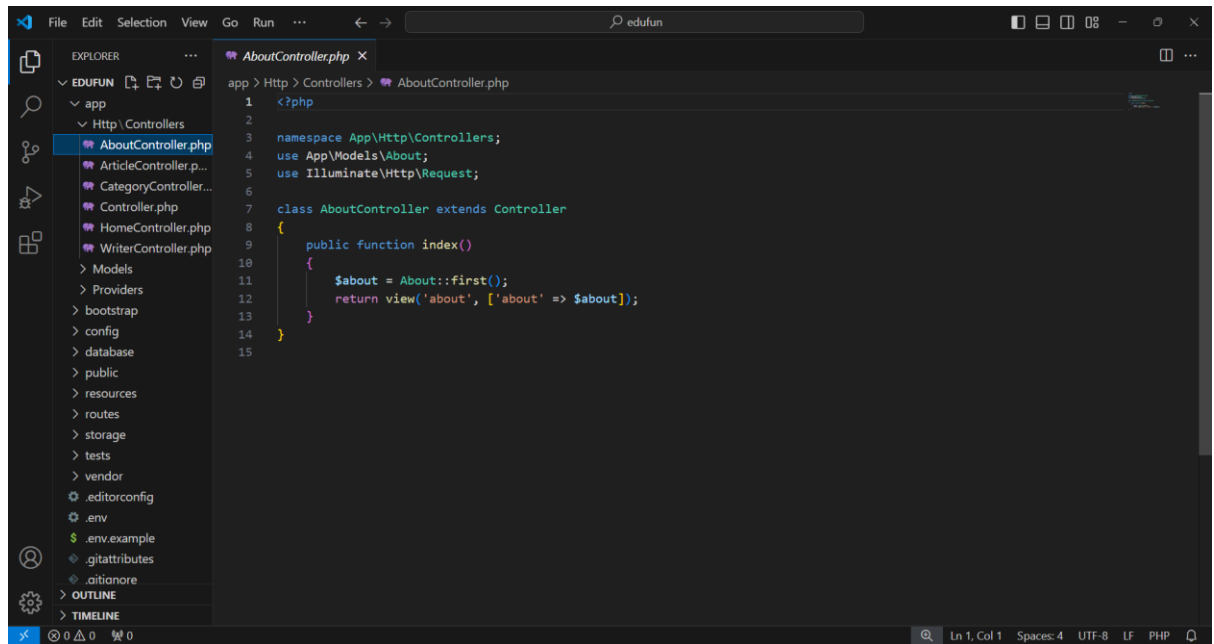
- WriterController

```
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\Writer;
5 use Illuminate\Http\Request;
6
7 class WriterController extends Controller
8 {
9     public function index()
10     {
11         $writers = Writer::all();
12         return view('writers.index', compact('writers'));
13     }
14
15     public function show($id)
16     {
17         $writer = Writer::findOrFail($id);
18         $articles = Article::where('writer_id', $id)->get();
19         return view('writers.show', compact('writer', 'articles'));
20     }
21 }
22
```

- ArticleController

```
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\Article;
5 use Illuminate\Http\Request;
6
7 class ArticleController extends Controller
8 {
9     public function show($id)
10     {
11         $article = Article::findOrFail($id);
12         $article->increment('views');
13         return view('detail', compact('article'));
14     }
15
16     public function popular()
17     {
18         $articles = Article::orderBy('views', 'desc')->paginate(3);
19         return view('popular', compact('articles'));
20     }
21 }
22
```

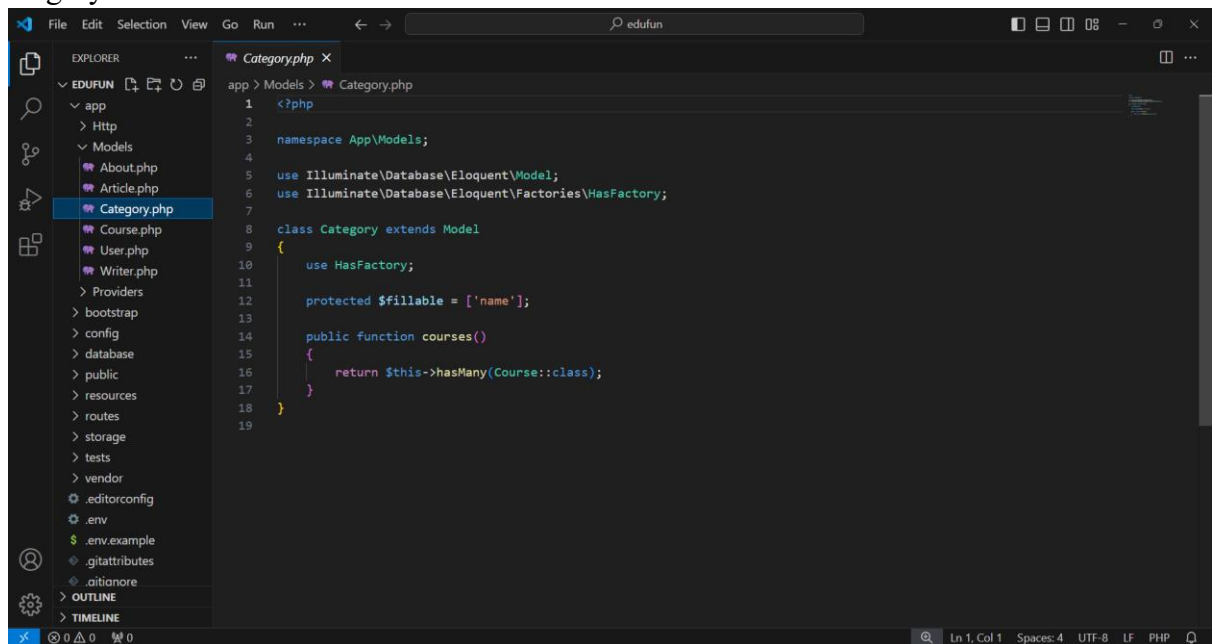
- AboutController



```
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\About;
5 use Illuminate\Http\Request;
6
7 class AboutController extends Controller
8 {
9     public function index()
10     {
11         $about = About::first();
12         return view('about', ['about' => $about]);
13     }
14 }
15
```

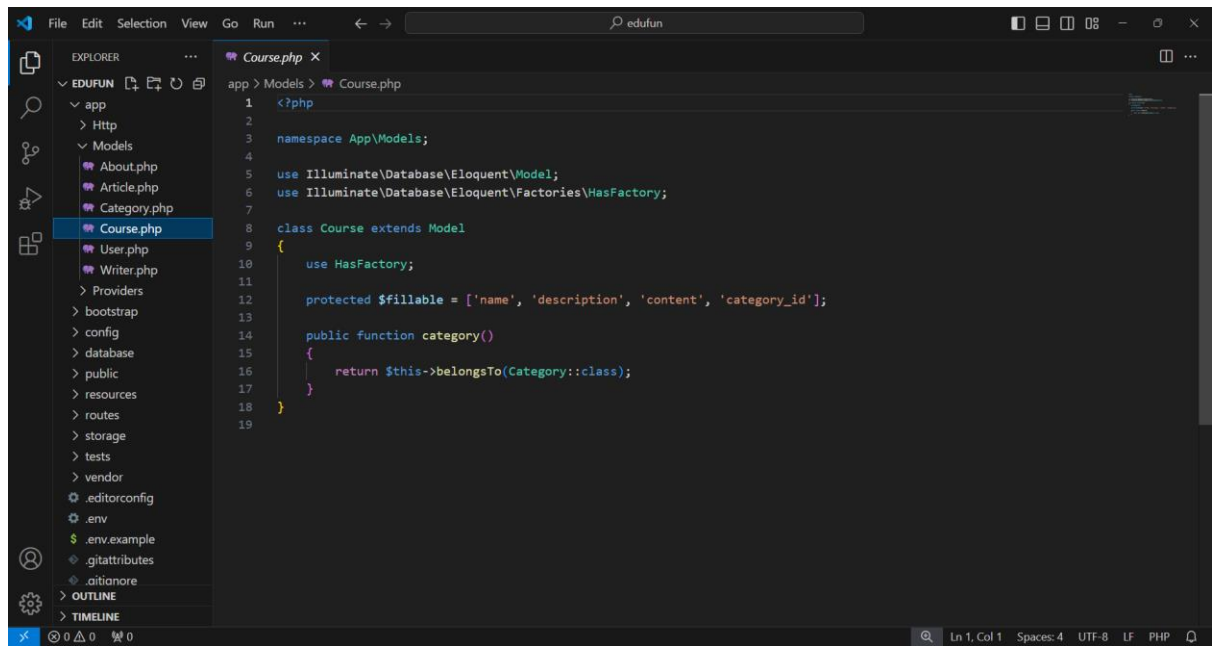
### 3. Model

- Category



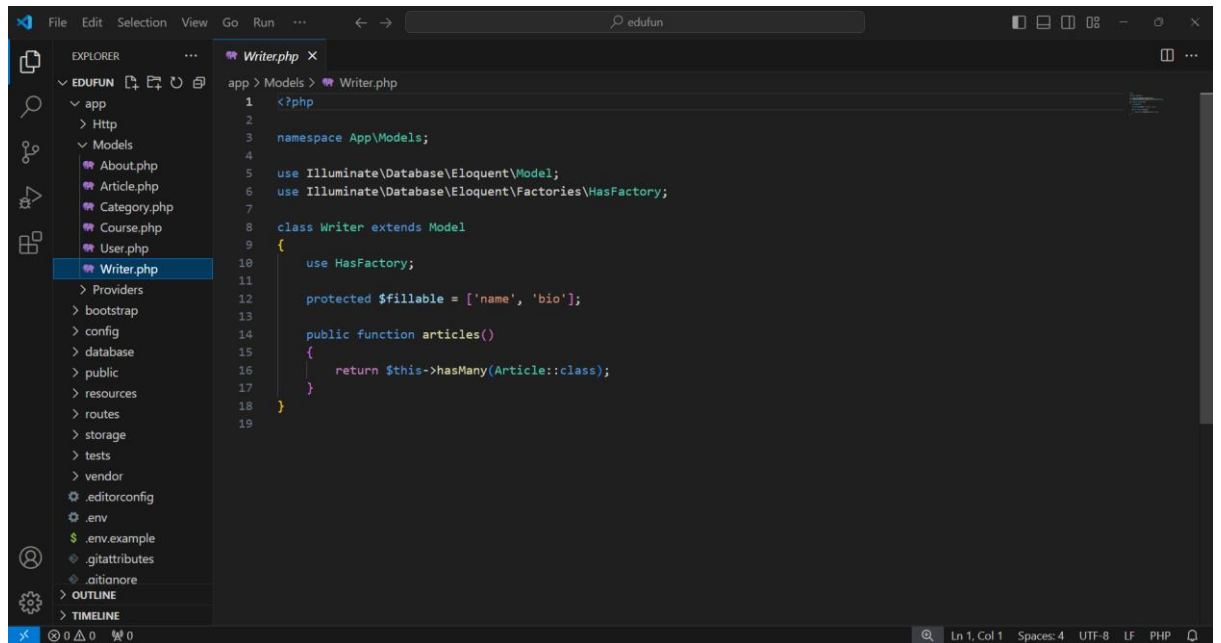
```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Model;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7
8 class Category extends Model
9 {
10     use HasFactory;
11
12     protected $fillable = ['name'];
13
14     public function courses()
15     {
16         return $this->hasMany(Course::class);
17     }
18 }
19
```

- Course



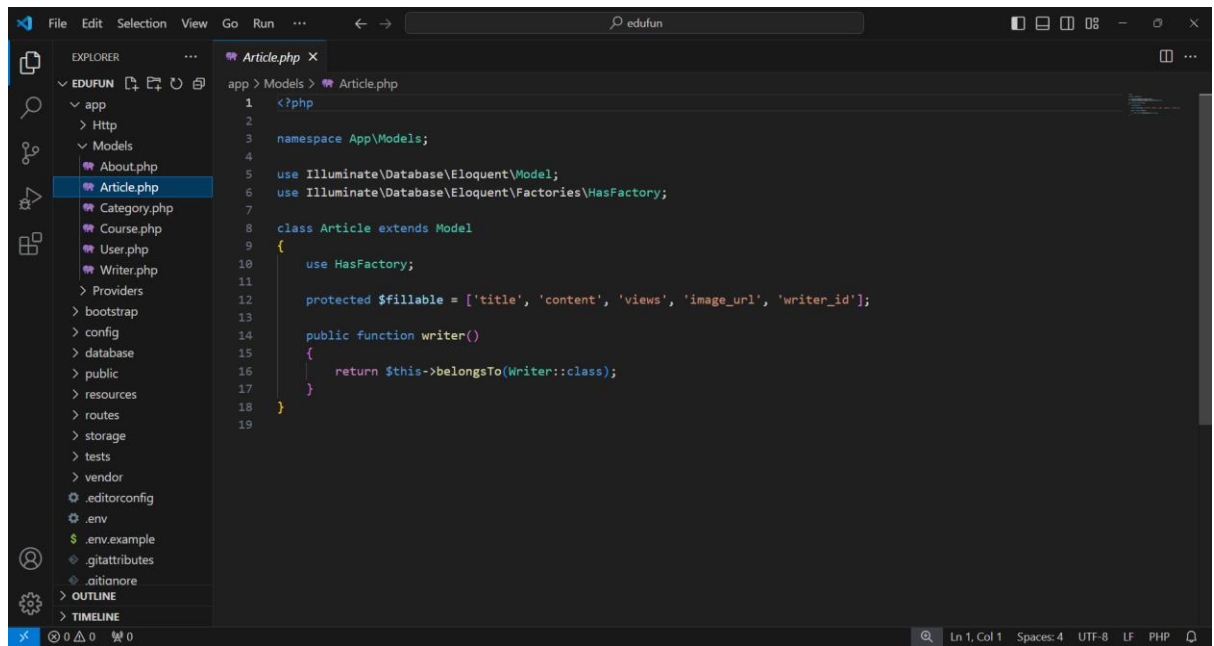
```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Model;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7
8 class Course extends Model
9 {
10     use HasFactory;
11
12     protected $fillable = ['name', 'description', 'content', 'category_id'];
13
14     public function category()
15     {
16         return $this->belongsTo(Category::class);
17     }
18 }
19
```

- **Writer**



```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Model;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7
8 class Writer extends Model
9 {
10     use HasFactory;
11
12     protected $fillable = ['name', 'bio'];
13
14     public function articles()
15     {
16         return $this->hasMany(Article::class);
17     }
18 }
19
```

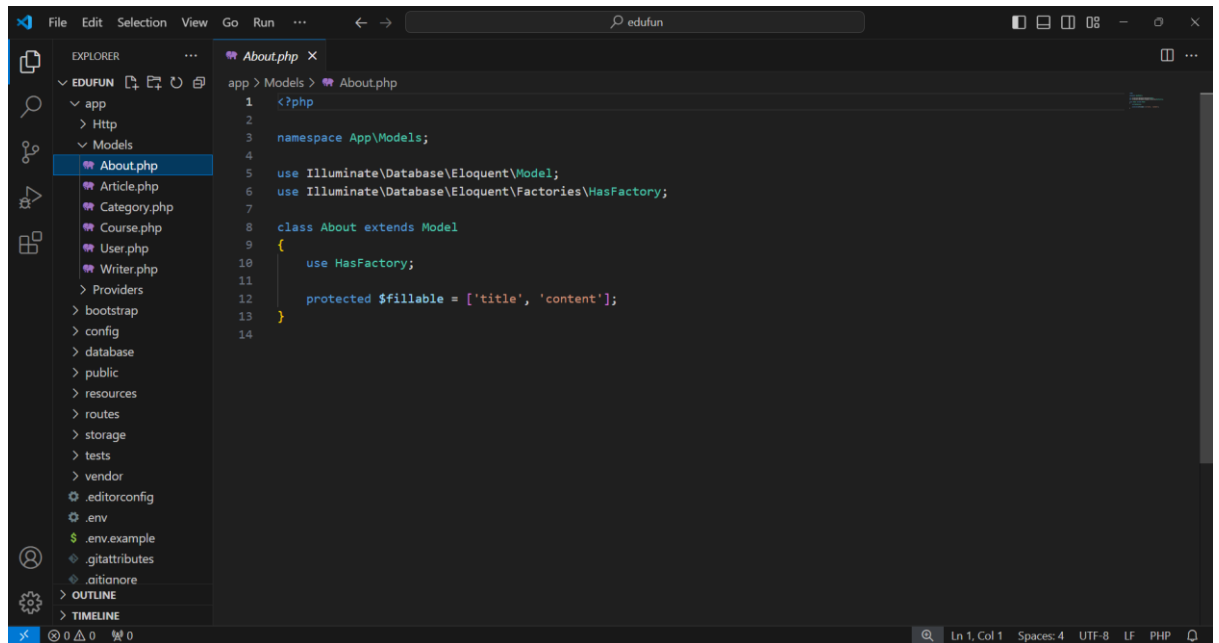
- **Article**



The screenshot shows the Visual Studio Code editor with the 'Article.php' file open. The Explorer sidebar on the left shows the project structure with 'EDUFUN' as the root. Under 'app', there are 'Http' and 'Models' folders. 'Models' contains 'About.php', 'Article.php' (selected), 'Category.php', 'Course.php', 'User.php', and 'Writer.php'. The main editor displays the code for 'Article.php'.

```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Model;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7
8 class Article extends Model
9 {
10     use HasFactory;
11
12     protected $fillable = ['title', 'content', 'views', 'image_url', 'writer_id'];
13
14     public function writer()
15     {
16         return $this->belongsTo(Writer::class);
17     }
18 }
19
```

- About



The screenshot shows the Visual Studio Code editor with the 'About.php' file open. The Explorer sidebar on the left shows the project structure with 'EDUFUN' as the root. Under 'app', there are 'Http' and 'Models' folders. 'Models' contains 'About.php' (selected), 'Article.php', 'Category.php', 'Course.php', 'User.php', and 'Writer.php'. The main editor displays the code for 'About.php'.

```
1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Model;
6 use Illuminate\Database\Eloquent\Factories\HasFactory;
7
8 class About extends Model
9 {
10     use HasFactory;
11
12     protected $fillable = ['title', 'content'];
13 }
14
```

#### 4. Migration

- Create\_category\_table

The screenshot shows the Visual Studio Code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'app', 'config', 'database', 'factories', 'migrations', 'seeders', and 'storage'. The 'migrations' folder is expanded, showing several files. The file '2024\_11\_05\_145626\_create\_categories\_table.php' is selected. The code editor shows the following PHP code:

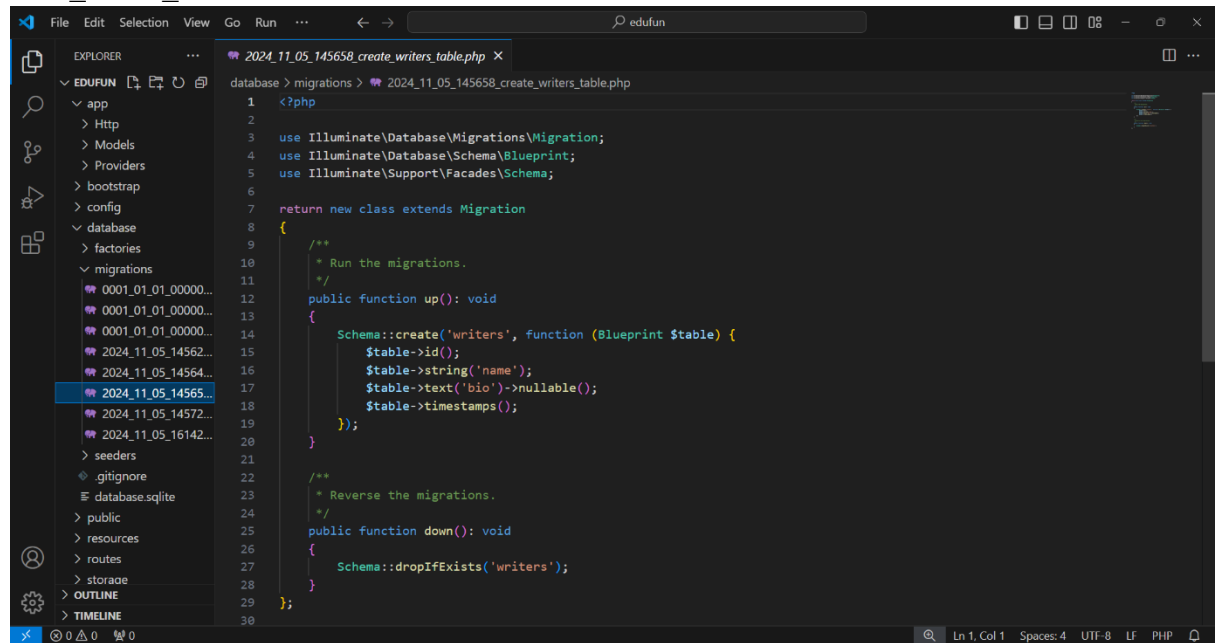
```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9
10     public function up(): void
11     {
12         Schema::create('categories', function (Blueprint $table) {
13             $table->id();
14             $table->string('name');
15             $table->timestamps();
16         });
17     }
18
19     public function down(): void
20     {
21         Schema::dropIfExists('categories');
22     }
23 };
24
```

- Create\_course\_table

The screenshot shows the Visual Studio Code editor with a file explorer on the left and a code editor on the right. The file explorer shows the same project structure as the previous screenshot. The file '2024\_11\_05\_145645\_create\_courses\_table.php' is selected. The code editor shows the following PHP code:

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9
10     public function up(): void
11     {
12         Schema::create('courses', function (Blueprint $table) {
13             $table->id();
14             $table->foreignId('category_id')->constrained()->onDelete('cascade');
15             $table->string('name');
16             $table->text('description')->nullable();
17             $table->text('content')->nullable();
18             $table->timestamps();
19         });
20     }
21
22     public function down(): void
23     {
24         Schema::dropIfExists('courses');
25     }
26 };
27
```

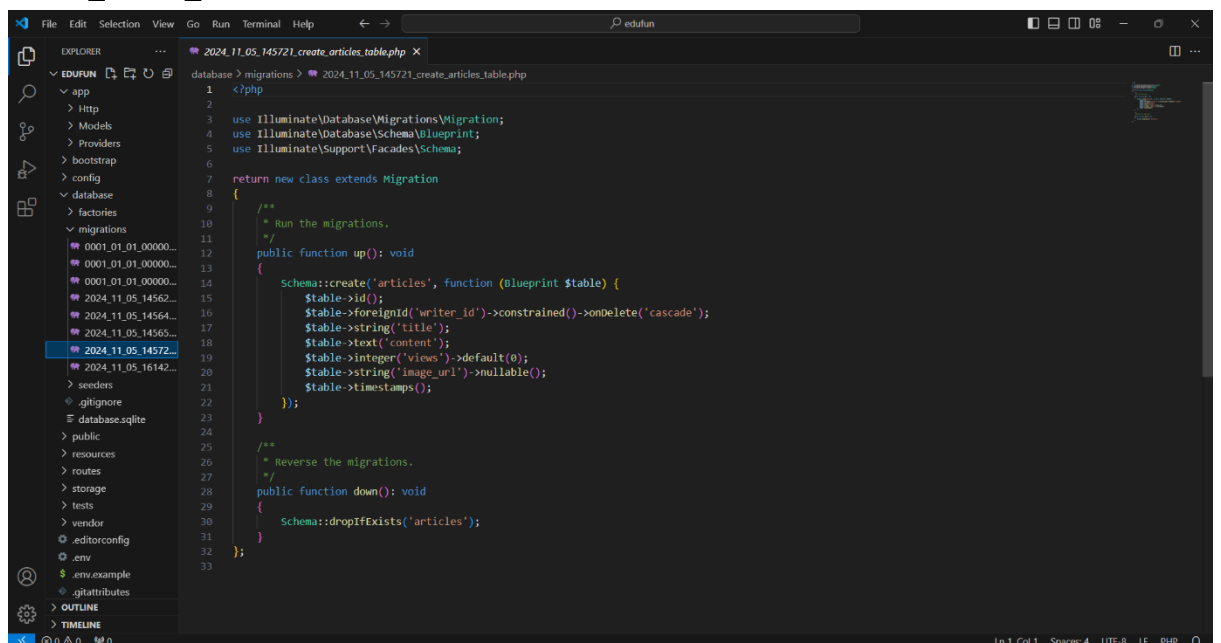
- Create `_writer_table`



The screenshot shows a code editor with a file explorer on the left. The file explorer shows a project structure with folders like 'app', 'bootstrap', 'config', 'database', 'factories', 'migrations', 'seeder', 'storage', and 'tests'. The 'migrations' folder is expanded, showing several files. The file '2024\_11\_05\_145658\_create\_writers\_table.php' is selected. The code editor shows the following PHP code:

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('writers', function (Blueprint $table) {
15             $table->id();
16             $table->string('name');
17             $table->text('bio')->nullable();
18             $table->timestamps();
19         });
20     }
21
22     /**
23      * Reverse the migrations.
24      */
25     public function down(): void
26     {
27         Schema::dropIfExists('writers');
28     }
29 };
30
```

- Create `_article_table`

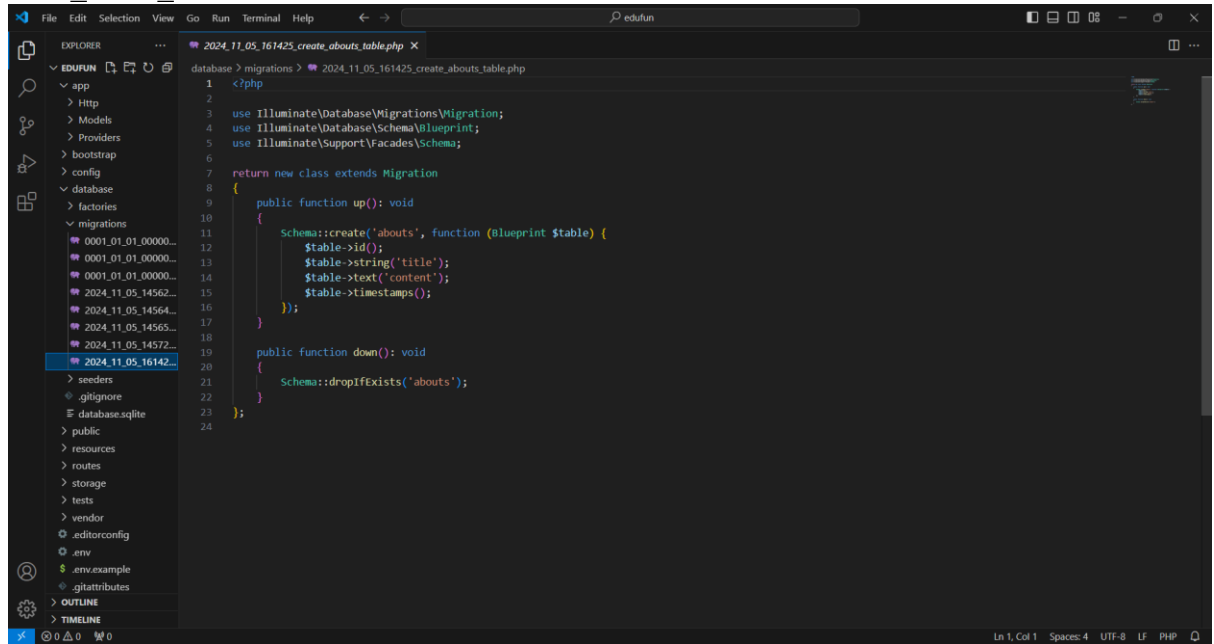


The screenshot shows a code editor with a file explorer on the left. The file explorer shows a project structure with folders like 'app', 'bootstrap', 'config', 'database', 'factories', 'migrations', 'seeder', 'storage', and 'tests'. The 'migrations' folder is expanded, showing several files. The file '2024\_11\_05\_145721\_create\_articles\_table.php' is selected. The code editor shows the following PHP code:

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::create('articles', function (Blueprint $table) {
15             $table->id();
16             $table->foreignId('writer_id')->constrained()->onDelete('cascade');
17             $table->string('title');
18             $table->text('content');
19             $table->integer('views')->default(0);
20             $table->string('image_url')->nullable();
21             $table->timestamps();
22         });
23     }
24
25     /**
26      * Reverse the migrations.
27      */
28     public function down(): void
29     {
30         Schema::dropIfExists('articles');
31     }
32 };
33
```



- Create about table

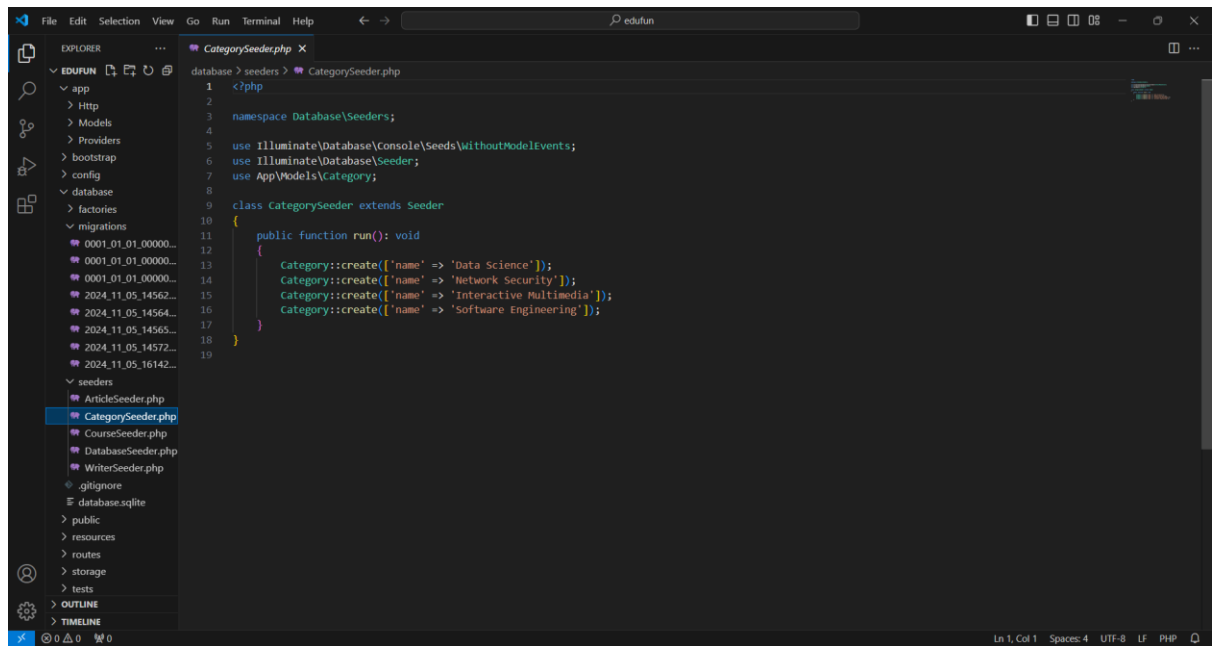


The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'app', 'bootstrap', 'config', 'database', 'migrations', 'seeds', 'storage', 'tests', 'vendor', and 'resources'. The 'migrations' folder is expanded, showing several files. The file '2024\_11\_05\_161425\_create\_abouts\_table.php' is selected. The code editor shows the following PHP code:

```
1 <?php
2
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     public function up(): void
10     {
11         Schema::create('abouts', function (Blueprint $table) {
12             $table->id();
13             $table->string('title');
14             $table->text('content');
15             $table->timestamps();
16         });
17     }
18
19     public function down(): void
20     {
21         Schema::dropIfExists('abouts');
22     }
23 };
24
```

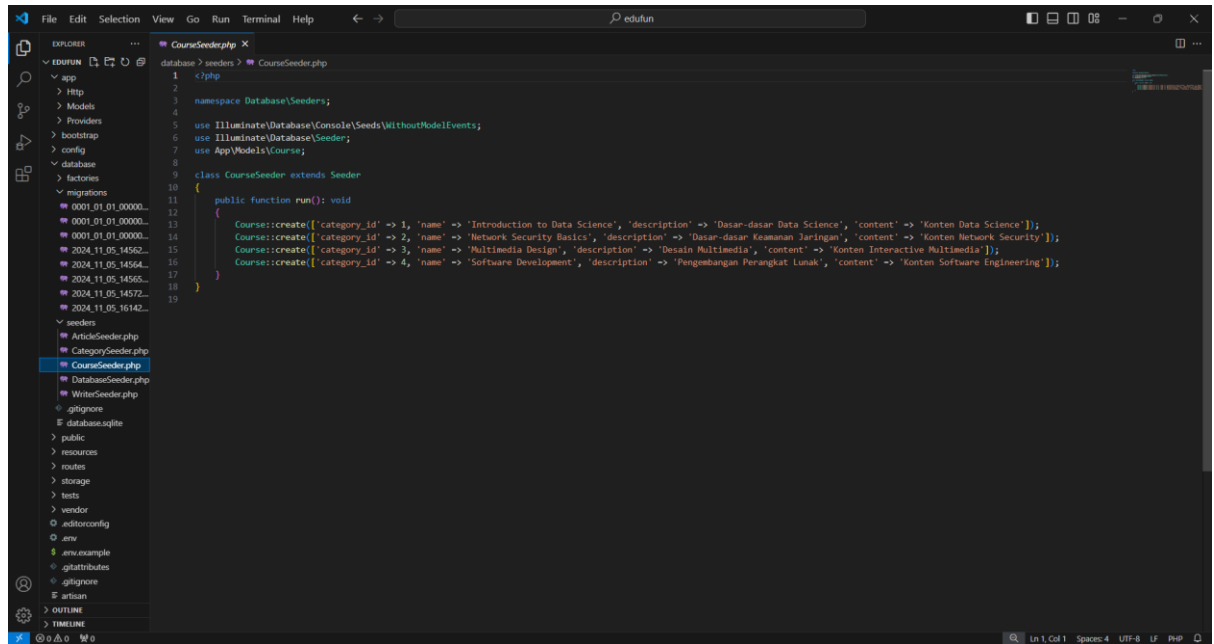
## 5. Seeder

- CategorySeeder



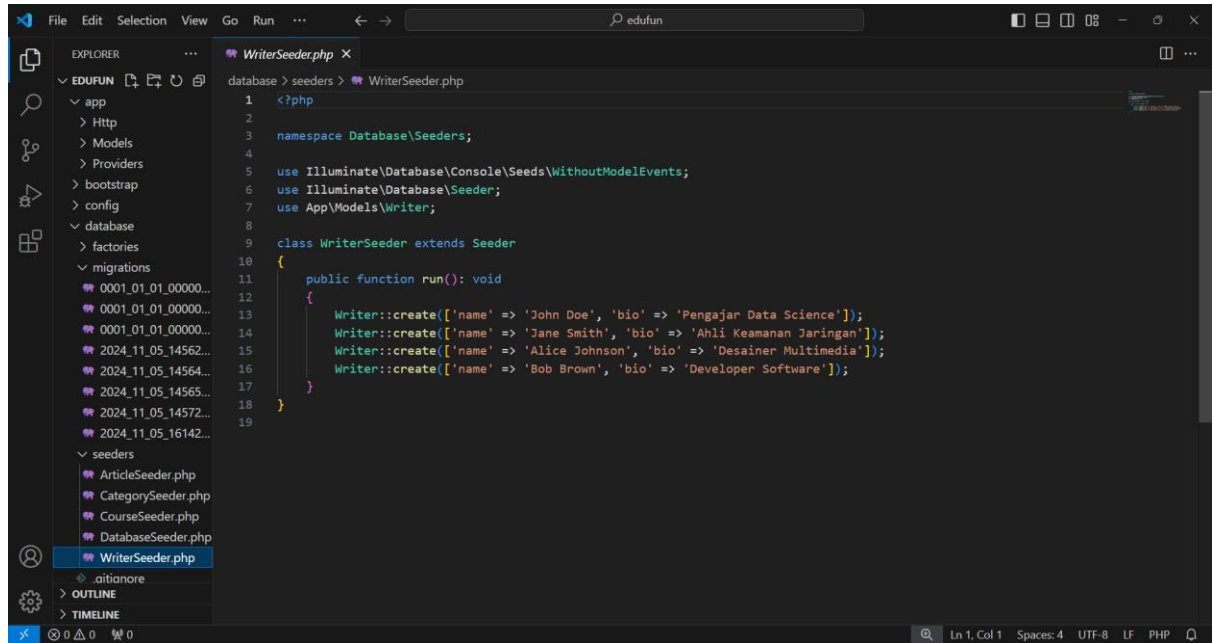
```
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7 use App\Models\Category;
8
9 class CategorySeeder extends Seeder
10 {
11     public function run(): void
12     {
13         Category::create(['name' => 'Data Science']);
14         Category::create(['name' => 'Network Security']);
15         Category::create(['name' => 'Interactive Multimedia']);
16         Category::create(['name' => 'Software Engineering']);
17     }
18 }
19
```

- CourseSeeder



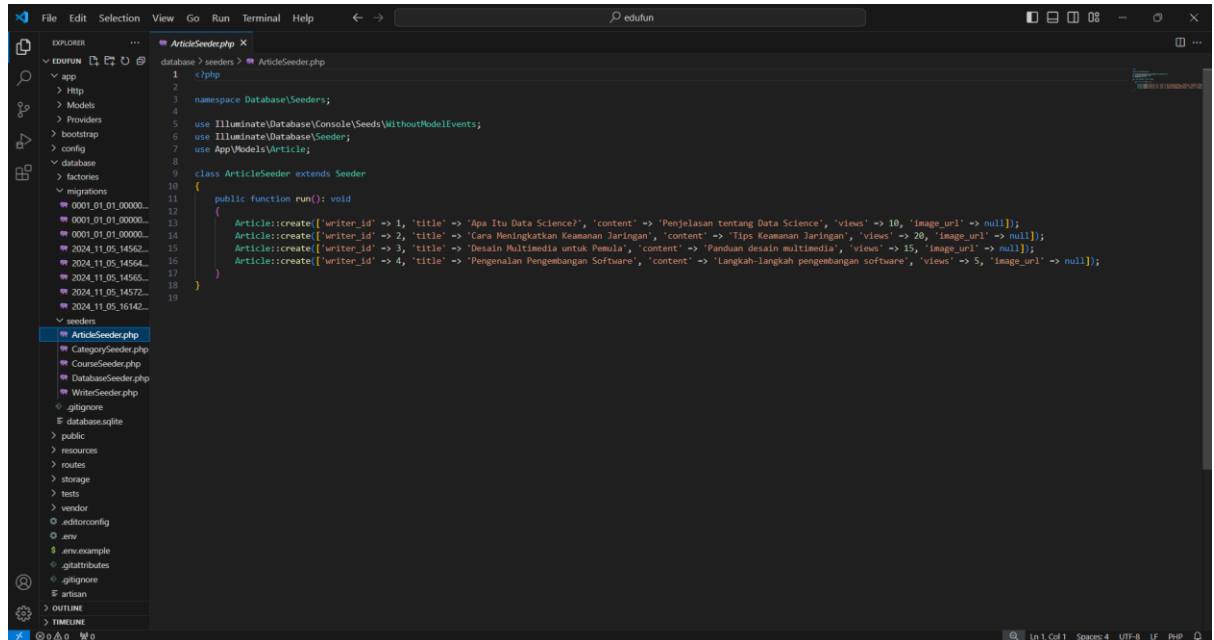
```
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7 use App\Models\course;
8
9 class CourseSeeder extends Seeder
10 {
11     public function run(): void
12     {
13         Course::create(['category_id' => 1, 'name' => 'Introduction to Data Science', 'description' => 'Dasar-dasar Data Science', 'content' => 'Konten Data Science']);
14         Course::create(['category_id' => 2, 'name' => 'Network Security Basics', 'description' => 'Dasar-dasar Keamanan Jaringan', 'content' => 'Konten Network Security']);
15         Course::create(['category_id' => 3, 'name' => 'Multimedia Design', 'description' => 'Desain Multimedia', 'content' => 'Konten Interactive Multimedia']);
16         Course::create(['category_id' => 4, 'name' => 'Software Development', 'description' => 'Pengembangan Perangkat Lunak', 'content' => 'Konten Software Engineering']);
17     }
18 }
19
```

- WriterSeeder



```
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7 use App\Models\Writer;
8
9 class WriterSeeder extends Seeder
10 {
11     public function run(): void
12     {
13         Writer::create(['name' => 'John Doe', 'bio' => 'Pengajar Data Science']);
14         Writer::create(['name' => 'Jane Smith', 'bio' => 'Ahli Keamanan Jaringan']);
15         Writer::create(['name' => 'Alice Johnson', 'bio' => 'Desainer Multimedia']);
16         Writer::create(['name' => 'Bob Brown', 'bio' => 'Developer Software']);
17     }
18 }
19
```

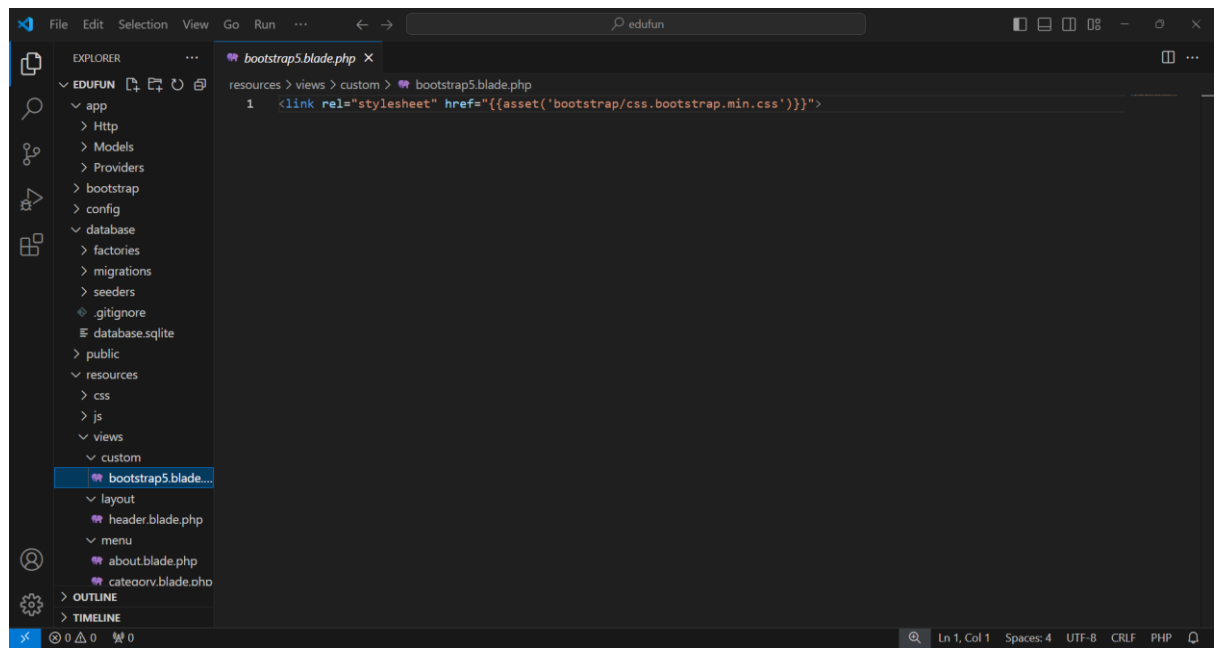
- ArticleSeeder



```
1 <?php
2
3 namespace Database\Seeders;
4
5 use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
7 use App\Models\Article;
8
9 class ArticleSeeder extends Seeder
10 {
11     public function run(): void
12     {
13         Article::create(['writer_id' => 1, 'title' => 'Apa Itu Data Science', 'content' => 'Penjelasan tentang Data Science', 'views' => 10, 'image_url' => null]);
14         Article::create(['writer_id' => 2, 'title' => 'Cara Meningkatkan Keamanan Jaringan', 'content' => 'Tips Keamanan Jaringan', 'views' => 20, 'image_url' => null]);
15         Article::create(['writer_id' => 3, 'title' => 'Desain Multimedia untuk Pemula', 'content' => 'Panduan desain multimedia', 'views' => 15, 'image_url' => null]);
16         Article::create(['writer_id' => 4, 'title' => 'Pengenalan Pengembangan Software', 'content' => 'Langkah-langkah pengembangan software', 'views' => 5, 'image_url' => null]);
17     }
18 }
19
```

## 6. View

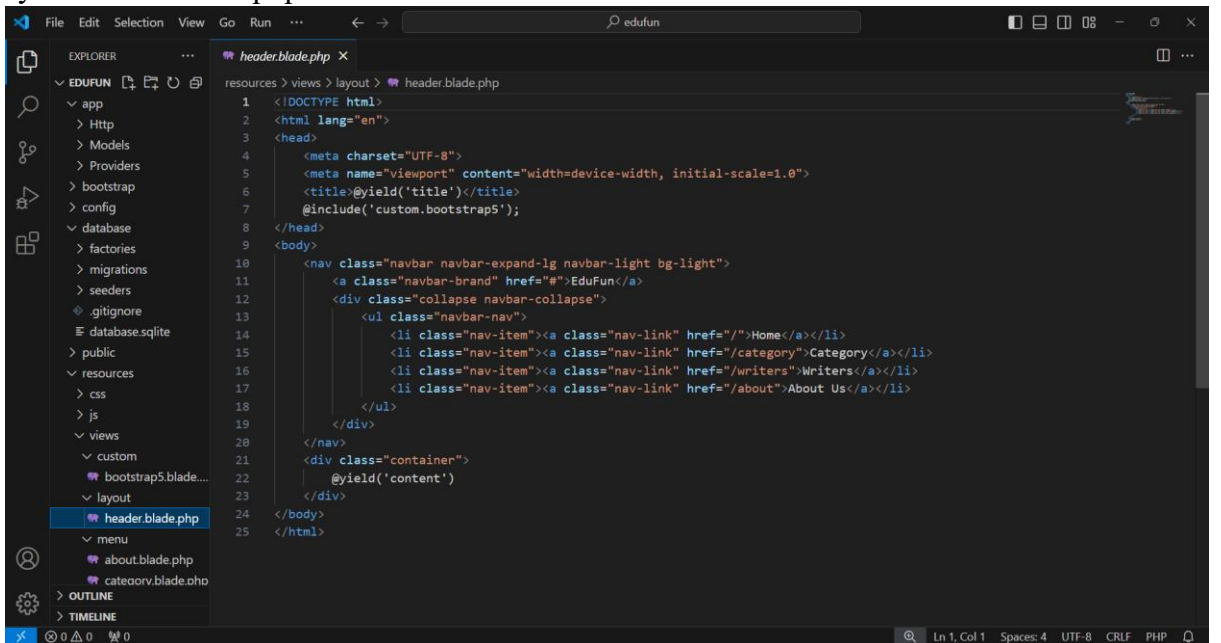
- Custom/bootstrap5.blade.php



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows the project structure, with the file `bootstrap5.blade.php` selected under the `resources > views > custom` directory. The main editor window displays the content of `bootstrap5.blade.php`, which is a single line of code: `<link rel="stylesheet" href="{{asset('bootstrap/css.bootstrap.min.css')}}">`. The status bar at the bottom indicates the file is at line 1, column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings.

```
resources > views > custom > bootstrap5.blade.php
1 <link rel="stylesheet" href="{{asset('bootstrap/css.bootstrap.min.css')}}">
```

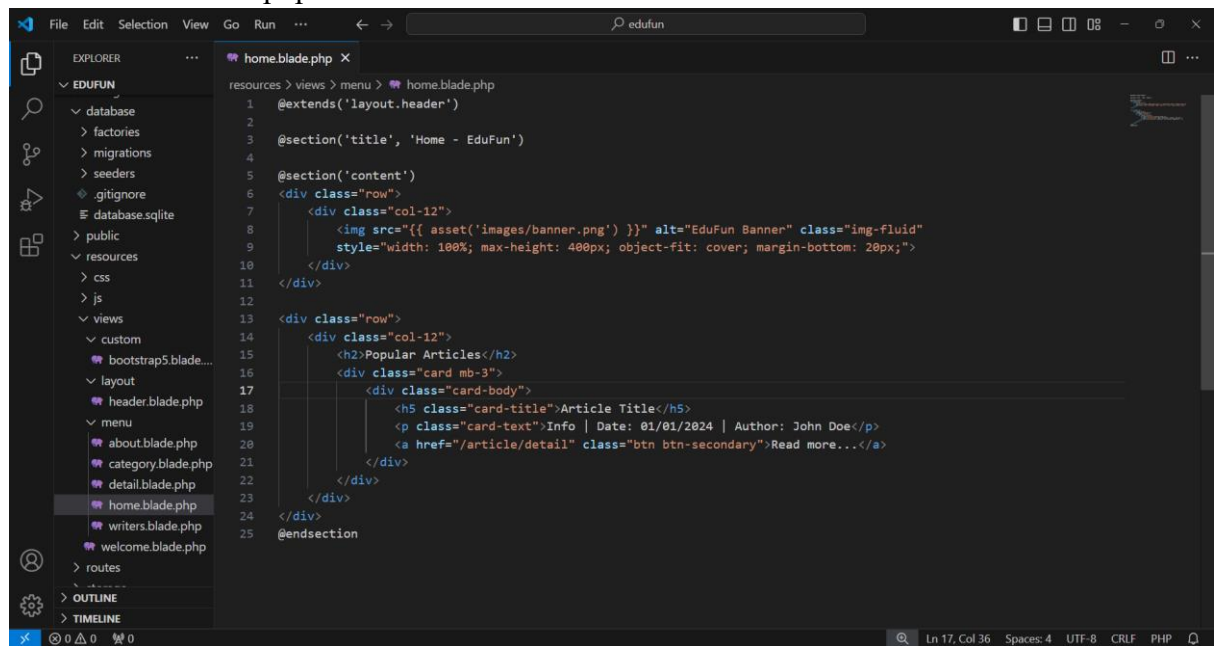
- Layout/header.blade.php



The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows the project structure, with the file `header.blade.php` selected under the `resources > views > layout` directory. The main editor window displays the content of `header.blade.php`, which is a full HTML document structure. The status bar at the bottom indicates the file is at line 1, column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings.

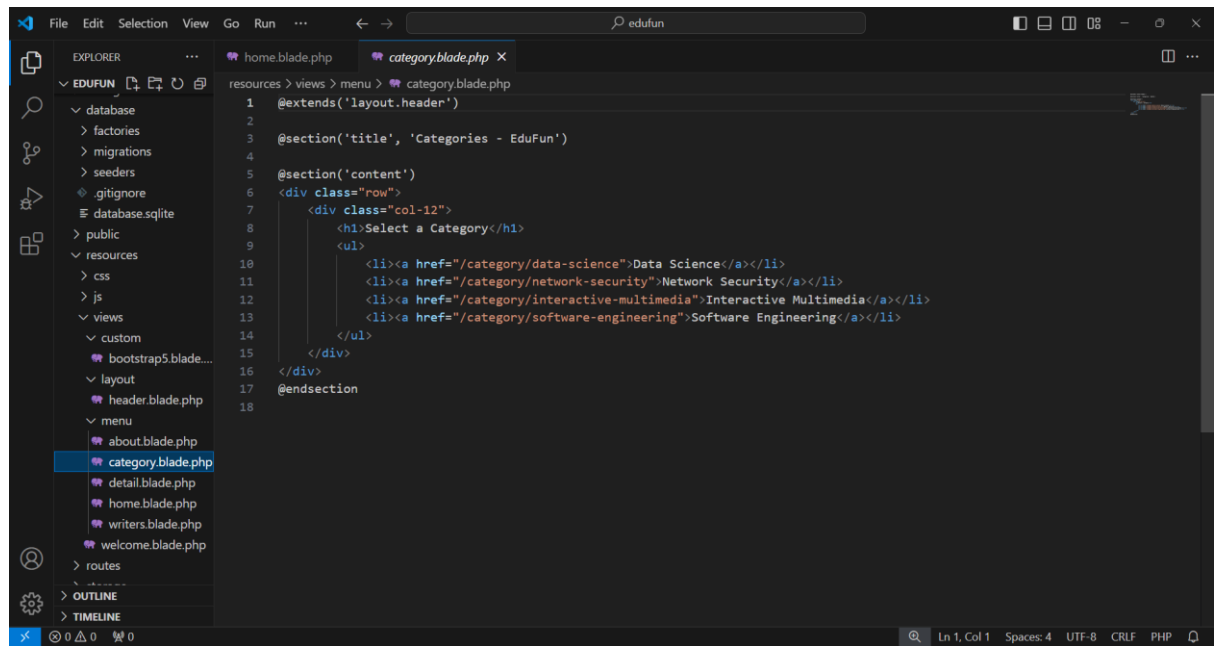
```
resources > views > layout > header.blade.php
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>@yield('title')</title>
7     @include('custom.bootstrap5');
8 </head>
9 <body>
10     <nav class="navbar navbar-expand-lg navbar-light bg-light">
11         <a class="navbar-brand" href="#">EduFun</a>
12         <div class="collapse navbar-collapse">
13             <ul class="navbar-nav">
14                 <li class="nav-item"><a class="nav-link" href="/">Home</a></li>
15                 <li class="nav-item"><a class="nav-link" href="/category">Category</a></li>
16                 <li class="nav-item"><a class="nav-link" href="/writers">Writers</a></li>
17                 <li class="nav-item"><a class="nav-link" href="/about">About Us</a></li>
18             </ul>
19         </div>
20     </nav>
21     <div class="container">
22         @yield('content')
23     </div>
24 </body>
25 </html>
```

- Menu
  - Menu/Home.blade.php



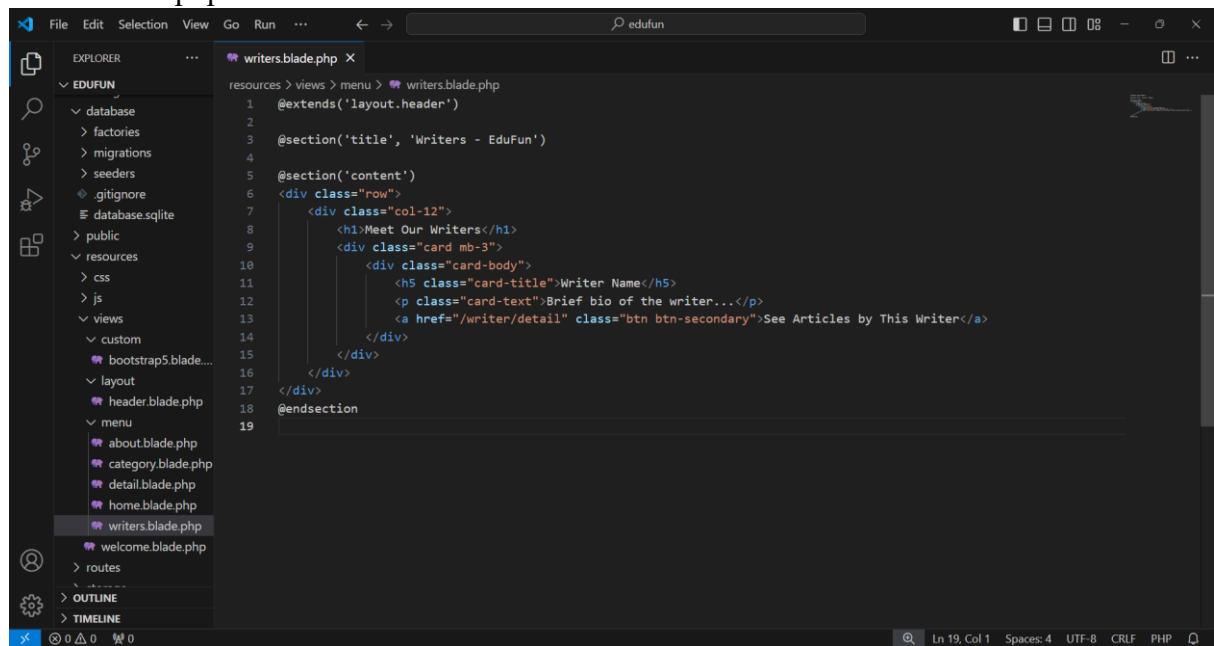
```
resources > views > menu > home.blade.php
1  @extends('layout.header')
2
3  @section('title', 'Home - EduFun')
4
5  @section('content')
6      <div class="row">
7          <div class="col-12">
8              
10             </div>
11         </div>
12
13         <div class="row">
14             <div class="col-12">
15                 <h2>Popular Articles</h2>
16                 <div class="card mb-3">
17                     <div class="card-body">
18                         <h5 class="card-title">Article Title</h5>
19                         <p class="card-text">Info | Date: 01/01/2024 | Author: John Doe</p>
20                         <a href="/article/detail" class="btn btn-secondary">Read more...</a>
21                     </div>
22                 </div>
23             </div>
24         </div>
25     @endsection
```

- Category.blade.php



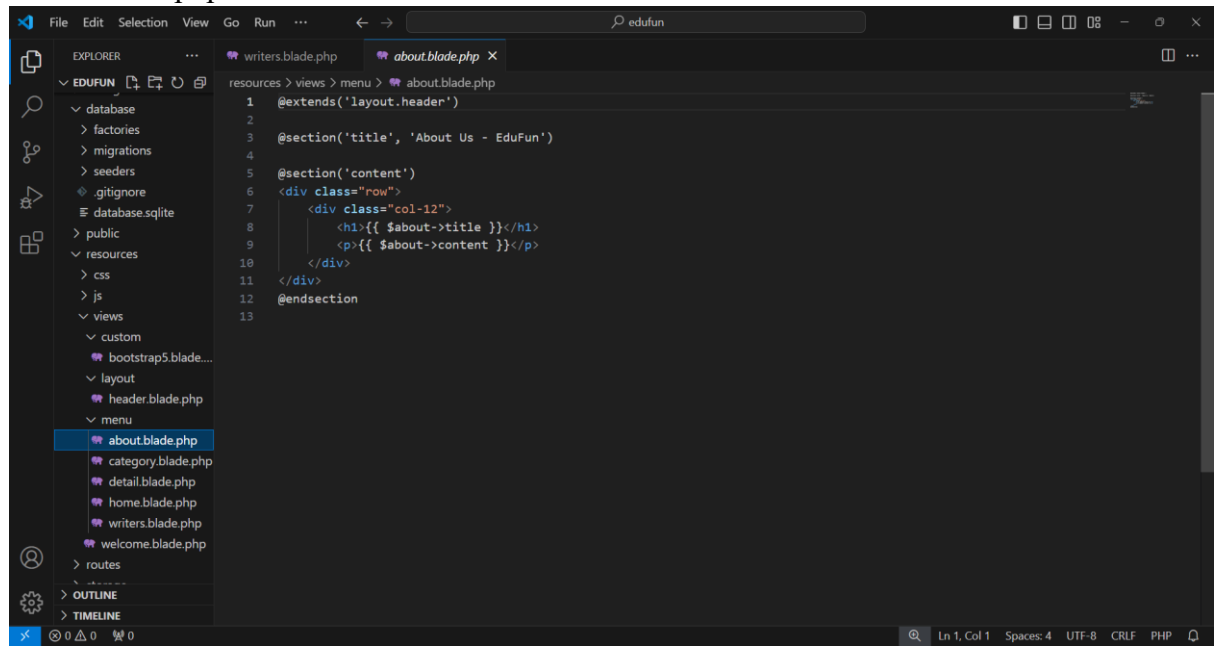
```
1 @extends('layout.header')
2
3 @section('title', 'Categories - EduFun')
4
5 @section('content')
6 <div class="row">
7     <div class="col-12">
8         <h1>Select a Category</h1>
9         <ul>
10             <li><a href="/category/data-science">Data Science</a></li>
11             <li><a href="/category/network-security">Network Security</a></li>
12             <li><a href="/category/interactive-multimedia">Interactive Multimedia</a></li>
13             <li><a href="/category/software-engineering">Software Engineering</a></li>
14         </ul>
15     </div>
16 </div>
17 @endsection
```

- Writer.blade.php



```
1 @extends('layout.header')
2
3 @section('title', 'Writers - EduFun')
4
5 @section('content')
6 <div class="row">
7     <div class="col-12">
8         <h1>Meet Our Writers</h1>
9         <div class="card mb-3">
10             <div class="card-body">
11                 <h5 class="card-title">Writer Name</h5>
12                 <p class="card-text">Brief bio of the writer...</p>
13                 <a href="/writer/detail" class="btn btn-secondary">See Articles by This Writer</a>
14             </div>
15         </div>
16     </div>
17 </div>
18 @endsection
19
```

- About.blade.php



```
1 @extends('layout.header')
2
3 @section('title', 'About Us - EduFun')
4
5 @section('content')
6 <div class="row">
7     <div class="col-12">
8         <h1>{{ $about->title }}</h1>
9         <p>{{ $about->content }}</p>
10    </div>
11 </div>
12 @endsection
13
```