## **UTC Web Programming**

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Link Project: <a href="https://github.com/MikelVan/UTC\_WebProgramming\_Mikel-Vanesius-Tanutomo.git">https://github.com/MikelVan/UTC\_WebProgramming\_Mikel-Vanesius-Tanutomo.git</a>

## **Routing**

#### Controller

#### **Models**

## **Category Model**

```
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Model;
7  use Illuminate\Database\Eloquent\Relations\HasOne;
8
9  use App\Models\Post;
10
11  class Category extends Model
12  {
13   use HasFactory;
14
15   public function post(): hasOne{
16   return $this->hasOne(Post::class);
17  }
18  }
19
```

#### **Post Model**

```
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Model;
7  use Illuminate\Database\Eloquent\Relations\BelongsTo;
8
9  class Post extends Model
10  {
11   use HasFactory;
12
13   public function category(): belongsTo{
14    return $this->belongsTo(Category::class);
15  }
16 }
17
```

#### Views

# **Default Layout**

#### **Home Page**

```
@section('title')
   Home Page
@section('content')
  <div class=" pe-2 d-inline-flex fs-6 border-bottom border-2 border-black fw-bold">
    IT REALLY COUNTS
</div>
            </div>
<div class="mt-3">
          <div class="row">
   @foreach ($latest_posts as $post)
                 </div>
<div class="fw-bold">
                 <a href="{{ route('postdetail', $post->id) }}" class="text-decoration-none text-black">{{ $post->title }}</a>
</div>
  <div class="row">
   @foreach ($all_posts as $post)
               <div>
     <img class="img-fluid" src="{{ asset($post->thumbnail) }}" alt="gambarBerita">
               {{ $post->title }}
</div>
              Read post
               <a class="btn btn-outline-light rounded-0 px-4" href="{{ route('postdetail', $post->id) }}">
```

### **Post Detail Page**

```
• • •
       | Section('content')
| cstyle>
| ria {
| adding-top: Spx; |
| width: 19px; |
| height: 30px; |
| text-align: center; |
| text-decoration: none; |
| argin: 5px 2px; |
| border-radius: 50%; |
| }
```

## **Migrations**

## **Category Migration**

```
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
  use Illuminate\Support\Facades\Schema;
  return new class extends Migration
       * Run the migrations.
        * @return void
       public function up()
           Schema::create('categories', function (Blueprint $table) {
               $table->id();
               $table->string('name');
               $table->timestamps();
           });
       * Reverse the migrations.
       public function down()
           Schema::dropIfExists('categories');
  };
```

#### **Post Migration**

```
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
7 return new class extends Migration
       public function up()
           Schema::create('posts', function (Blueprint $table) {
              $table->id();
              $table->string('title');
              $table->string('description');
              $table->string('author');
              $table->string('thumbnail');
              $table->foreignId('category_id');
               $table->longText('content');
               $table->integer('views')->default(0);
               $table->timestamps();
               $table->foreign('category_id')->references('id')->on('categories');
       public function down()
           Schema::dropIfExists('posts');
```

#### **Factory**

#### **Post Factory**

```
namespace Database\Factories;
5 use Illuminate\Database\Eloquent\Factories\Factory;
   use App\Models\Category;
  class PostFactory extends Factory
       public function definition()
           $categories = Category::all()->pluck('id');
           $images = [
               'images/adeolu-eletu-E7RLgUjjazc-unsplash.jpg',
               'images/austin-distel-PkS3hCZmYts-unsplash.jpg',
               'images/joshua-rawson-harris--B5_t5S_BFo-unsplash.jpg',
               'images/joshua-rawson-harris-ksCk6KkOMsA-unsplash.jpg',
               'images/joshua-rawson-harris-LX0pplSjE2g-unsplash.jpg',
               'images/joshua-rawson-harris-M5VqCeKC3vk-unsplash.jpg',
               'images/joshua-rawson-harris-wCgy-qHtZtM-unsplash.jpg',
               'images/kenny-eliason-Pfa7Soh0euw-unsplash.jpg',
                'images/ozan-safak-SPS6wfD6H4k-unsplash.jpg',
           return [
               'title' => fake()->sentence(mt_rand(4, 15)),
               'description' => fake()->sentence(mt_rand(10, 25)),
               'author' => fake()->name(),
               'thumbnail' => fake()->randomElement($images),
               'category_id' => fake()->randomElement($categories),
               'content' => fake()->paragraphs(mt_rand(2, 6), true)
           ];
```

## **Seeders**

#### **Category Seeder**

```
<?php
3 namespace Database\Seeders;
5  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6 use Illuminate\Database\Seeder;
8 use App\Models\Category;
10 class CategorySeeder extends Seeder
11 {
        * Run the database seeds.
        * @return void
      public function run()
       {
           Category::create(['name' => "Quick Reads"]);
          Category::create(['name' => "Medium Reads"]);
          Category::create(['name' => "Long Reads"]);
       }
23 }
```

#### **Post Seeder**

```
anamespace Database\Seeders;
anamespace Database\Seeders;

use Illuminate\Database\Console\Seeds\WithoutModelEvents;
use Illuminate\Database\Seeder;

use App\Models\Post;

class PostSeeder extends Seeder

{
    /**
    * Run the database seeds.

* * @return void
    */
    public function run()

{
    Post::factory(10)->create();
}
}

}
```

#### **Database Seeder**

## Page Result

# **Home Page**

#### WirjawanNotes of GITA WIRLAWAN



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#### LATEST BOOK REVIEWS



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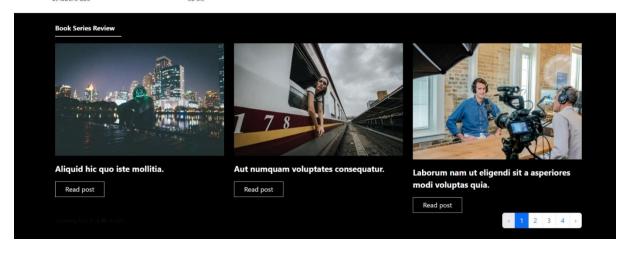
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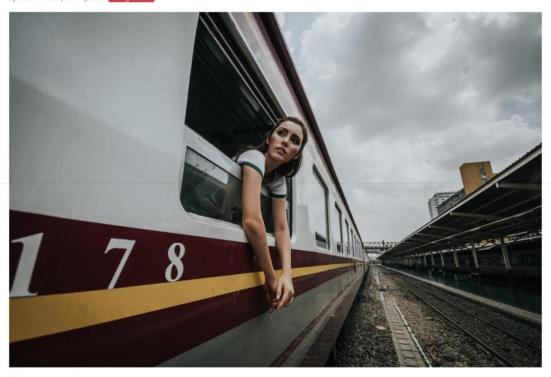
# **Post Detail Page**

WirjawanNotes of GITA WIRJAWAN

IT REALLY COUNTS

# Aut numquam voluptates consequatur.

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#### Video Section

