

## UTC Web Programming

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Link Project: [https://github.com/MikelVan/UTC\\_WebProgramming\\_Mikel-Vanesius-Tanutomo.git](https://github.com/MikelVan/UTC_WebProgramming_Mikel-Vanesius-Tanutomo.git)

## Routing

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4  use App\Http\Controllers\PostController;
5
6  /*
7  |-----
8  | Web Routes
9  |-----
10 |
11 | Here is where you can register web routes for your application. These
12 | routes are loaded by the RouteServiceProvider within a group which
13 | contains the "web" middleware group. Now create something great!
14 |
15 */
16
17 Route::get('/', [PostController::class, 'index'])->name('home');
18
19 Route::get('/postDetail/{post}', [PostController::class, 'detail'])->name('postdetail');
20
```

## Controller



```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 use App\Models\Post;
8 use File;
9
10 class PostController extends Controller
11 {
12     public function index(){
13         $highlighted_post = Post::orderByDesc('views')->take(1)->get()[0];
14         $latest_posts = Post::latest()->take(4)->get();
15         $all_posts = Post::paginate(3);
16         return view('home', compact('highlighted_post', 'latest_posts', 'all_posts'));
17     }
18
19     public function detail(Post $post){
20         $post->increment('views');
21         return view('post-detail', compact('post'));
22     }
23 }
24
```


## 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

```
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   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <title:@yield('title')></title>
8   <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK94CHFLLe+nY2dmCWGq91rCGa5gtU4mk92HdvYe+M/SXH301p5ILy+dN9+nJ0Z" crossorigin="anonymous">
9   <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@4.7.0/css/font-awesome.min.css">
10 </head>
11 <body>
12   <header class="container border-bottom border-2 border-black">
13     <div class="py-3 d-flex align-items-center">
14       <div class="fs-2">
15         WirJawanNotes
16       </div>
17       <div class="ps-2 fw-bold" style="font-size: 8px;">
18         THE BLOG <br>
19         OF GITA WIRJAWAN
20       </div>
21     </div>
22   </header>
23
24   <div>
25     @yield('content')
26   </div>
27
28   <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ENjd04Dr2bkBIFxQpeoTz1Hicje39Wm4JDKdf19U8gI4ddQ3GYN7NTKfAdVQ5Ze" crossorigin="anonymous"></script>
29 </body>
30 </html>
```

# Home Page

```
1  @extends('layouts.default')
2
3  @section('title')
4      Home Page
5  @endsection
6
7  @section('content')
8      <div class="container">
9          <div class="py-4">
10             <section class="row">
11                 <div class="col-5">
12                     
13                 </div>
14                 <div class="col-7">
15                     <div class="pe-2 d-inline-flex fs-6 border-bottom border-2 border-black fw-bold">
16                         IT REALLY COUNTS
17                     </div>
18                     <div class="fs-1 pe-5 my-2 fw-bold">
19                         <a href="{{ route('postdetail', $highlighted_post->id) }}" class="text-decoration-none text-black">{{ $highlighted_post->title }}</a>
20                     </div>
21                     <div>
22                         {{ $highlighted_post->description }}
23                     </div>
24                 </div>
25             </section>
26         </div>
27         <section class="py-4">
28             <div class="d-inline-flex border-bottom border-2 border-black fw-bold">
29                 LATEST BOOK REVIEWS
30             </div>
31             <div class="mt-3">
32                 <div class="row">
33                     @foreach ($latest_posts as $post)
34                         <div class="col-3">
35                             <div>
36                                 
37                             </div>
38                             <div class="fw-bold">
39                                 <a href="{{ route('postdetail', $post->id) }}" class="text-decoration-none text-black">{{ $post->title }}</a>
40                             </div>
41                             <div>
42                                 {{ $post->description }}
43                             </div>
44                         </div>
45                     @endforeach
46                 </div>
47             </div>
48         </section>
49     </div>
50     <section class="container-fluid py-3 bg-black" style="padding-inline: 100px;">
51         <div class="py-2 pe-3 d-inline-flex border-bottom border-2 border-white text-white fw-bold">
52             Book Series Review
53         </div>
54         <div class="mt-3">
55             <div class="row">
56                 @foreach ($all_posts as $post)
57                     <div class="col-4">
58                         <div>
59                             
60                         </div>
61                         <div class="text-white py-3 fw-bold fs-5">
62                             {{ $post->title }}
63                         </div>
64                         <a class="btn btn-outline-light rounded-0 px-4" href="{{ route('postdetail', $post->id) }}">
65                             Read post
66                         </a>
67                     </div>
68                 @endforeach
69             </div>
70             <div>
71                 {{ $all_posts->links() }}
72             </div>
73         </div>
74     </section>
75 @endsection
```

## Post Detail Page

```
1  @extends('layouts.default')
2
3  @section('title')
4      Post Title
5  @endsection
6
7  @section('content')
8      <style>
9          .fa {
10              padding-top: 8px;
11              width: 36px;
12              height: 36px;
13              text-align: center;
14              text-decoration: none;
15              margin: 5px 2px;
16              border-radius: 50%;
17          }
18
19          .fa:hover {
20              opacity: 0.7;
21              transition: .3s;
22          }
23
24          .fa-facebook {
25              background: #3B5998;
26              color: white;
27          }
28
29          .fa-twitter {
30              background: #55ACEE;
31              color: white;
32          }
33
34          .fa-linkedin {
35              background: #007bb5;
36              color: white;
37          }
38
39          .fa-instagram {
40              background: #d20000;
41              color: white;
42          }
43      </style>
44
45      <div class="container">
46          <div class="row d-inline-flex border-bottom border-2 border-black pe-2 my-3 fw-bold">
47              IT REALLY COUNTS
48          </div>
49          <div class="row">
50              <div class="fs-1 fw-bold">
51                  {{ $post->title }}
52              </div>
53          </div>
54          <div class="row">
55              <div>
56                  {{ $post->description }}
57              </div>
58          </div>
59          <div class="row">
60              <div class="d-flex">
61                  <div class="me-1">
62                      By <strong>{{ $post->author }}</strong>
63                  </div>
64                  <div class="mx-1">
65                      |
66                  </div>
67                  <div class="mx-1">
68                      {{ date('d M, Y', strtotime($post->created_at)) }}
69                  </div>
70
71                  @if ($post->category->name == 'Long Reads')
72                      <div class="bg-danger text-white px-3 rounded-2 ms-1">
73                          Long Reads
74                      </div>
75                  @elseif ($post->category->name == 'Medium Reads')
76                      <div class="bg-warning text-white px-3 rounded-2 ms-1">
77                          Medium Reads
78                      </div>
79                  @else
80                      <div class="bg-success text-white px-3 rounded-2 ms-1">
81                          Quick Reads
82                      </div>
83                  @endif
84              </div>
85          </div>
86          <div class="row my-4">
87              
88          </div>
89          <div class="row">
90              <div class="d-flex">
91                  <div class="me-2">
92                      <a href="#" class="fa fa-linkedin"></a>
93                  </div>
94                  <div class="mx-2">
95                      <a href="#" class="fa fa-twitter"></a>
96                  </div>
97                  <div class="mx-2">
98                      <a href="#" class="fa fa-facebook"></a>
99                  </div>
100                 <div class="ms-2">
101                     <a href="#" class="fa fa-instagram"></a>
102                 </div>
103             </div>
104         </div>
105         <div class="row">
106             <p>
107                 {{ $post->content }}
108             </p>
109         </div>
110         <div class="row">
111             <div class="my-2 fw-bold">
112                 Video Section
113             </div>
114             <div>
115                 <iframe width="100%" height="700px" src="https://www.youtube.com/embed"></iframe>
116             </div>
117         </div>
118     </div>
119 @endsection
120
```

## Migrations

### Category Migration

```
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       * @return void
13       */
14     public function up()
15     {
16         Schema::create('categories', function (Blueprint $table) {
17             $table->id();
18             $table->string('name');
19             $table->timestamps();
20         });
21     }
22
23     /**
24      * Reverse the migrations.
25      *
26      * @return void
27      */
28     public function down()
29     {
30         Schema::dropIfExists('categories');
31     }
32 };
33
```



## Post Migration

```
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       * @return void
13       */
14     public function up()
15     {
16         Schema::create('posts', function (Blueprint $table) {
17             $table->id();
18             $table->string('title');
19             $table->string('description');
20             $table->string('author');
21             $table->string('thumbnail');
22             $table->foreignId('category_id');
23             $table->longText('content');
24             $table->integer('views')->default(0);
25             $table->timestamps();
26
27             $table->foreign('category_id')->references('id')->on('categories');
28         });
29     }
30
31     /**
32      * Reverse the migrations.
33      *
34      * @return void
35      */
36     public function down()
37     {
38         Schema::dropIfExists('posts');
39     }
40 };
41
```

## Factory

## Post Factory

```
1  <?php
2
3  namespace Database\Factories;
4
5  use Illuminate\Database\Eloquent\Factories\Factory;
6
7  use App\Models\Category;
8
9  /**
10   * @extends \Illuminate\Database\Eloquent\Factories\Factory<\App\Models\Post>
11   */
12  class PostFactory extends Factory
13  {
14      /**
15       * Define the model's default state.
16       *
17       * @return array<string, mixed>
18       */
19      public function definition()
20      {
21          $categories = Category::all()->pluck('id');
22          $images = [
23              'images/adeolu-eletu-E7RLgUjjazc-unsplash.jpg',
24              'images/austin-distel-PkS3hCZmYts-unsplash.jpg',
25              'images/joshua-rawson-harris--B5_t5S_BFo-unsplash.jpg',
26              'images/joshua-rawson-harris-ksCk6KkOMsA-unsplash.jpg',
27              'images/joshua-rawson-harris-LX0pplSjE2g-unsplash.jpg',
28              'images/joshua-rawson-harris-M5VqCeKC3vk-unsplash.jpg',
29              'images/joshua-rawson-harris-TGDfpvSD8Lc-unsplash.jpg',
30              'images/joshua-rawson-harris-wCgy-qHtZtM-unsplash.jpg',
31              'images/kenny-eliason-Pfa7Soh0euw-unsplash.jpg',
32              'images/ozan-safak-SPS6wfdD6H4k-unsplash.jpg',
33          ];
34
35          return [
36              'title' => fake()->sentence(mt_rand(4, 15)),
37              'description' => fake()->sentence(mt_rand(10, 25)),
38              'author' => fake()->name(),
39              'thumbnail' => fake()->randomElement($images),
40              'category_id' => fake()->randomElement($categories),
41              'content' => fake()->paragraphs(mt_rand(2, 6), true)
42          ];
43      }
44  }
45
```

## Seeders

### Category Seeder


```
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6  use Illuminate\Database\Seeder;
7
8  use App\Models\Category;
9
10 class CategorySeeder extends Seeder
11 {
12     /**
13      * Run the database seeds.
14      *
15      * @return void
16      */
17     public function run()
18     {
19         Category::create(['name' => "Quick Reads"]);
20         Category::create(['name' => "Medium Reads"]);
21         Category::create(['name' => "Long Reads"]);
22     }
23 }
24
```

## Post Seeder



```
1  <?php
2
3  namespace Database\Seeders;
4
5  use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6  use Illuminate\Database\Seeder;
7
8  use App\Models\Post;
9
10 class PostSeeder extends Seeder
11 {
12     /**
13      * Run the database seeds.
14      *
15      * @return void
16      */
17     public function run()
18     {
19         Post::factory(10)->create();
20     }
21 }
22
```

## Database Seeder



```
1  <?php
2
3  namespace Database\Seeders;
4
5  // use Illuminate\Database\Console\Seeds\WithoutModelEvents;
6  use Illuminate\Database\Seeder;
7
8  class DatabaseSeeder extends Seeder
9  {
10     /**
11      * Seed the application's database.
12      *
13      * @return void
14      */
15     public function run()
16     {
17         $this->call([
18             CategorySeeder::class,
19             PostSeeder::class
20         ]);
21     }
22 }
23
```

Page Result

Home Page



IT REALLY COUNTS

Aut numquam voluptates consequatur.

Minus ad et tenetur ut nam asperiores deserunt mollitia facilis aut qui nostrum voluptas odit eligendi deleniti reiciendis ut ea sit.

LATEST BOOK REVIEWS



Aliquid hic quo iste mollitia.  
Quia nihil quis sint praesentium at  
doloremque qui et velit quisquam fuga  
eveniet magnam ipsa debitis reiciendis ut  
at labore aut.



Aut numquam voluptates consequatur.  
Minus ad et tenetur ut nam asperiores  
deserunt mollitia facilis aut qui nostrum  
voluptas odit eligendi deleniti reiciendis ut  
ea sit.



Laborum nam ut eligendi sit a  
asperiores modi voluptas quia.  
Nobis sunt sunt consequatur nemo rerum  
sit est quidem occaecati eos id nihil.



Placeat voluptas ullam tempora quia  
rerum et maxime ad assumenda.  
Totam fuga id deserunt ea hic cumque nihil  
consequatur dicta et optio.

Book Series Review



Aliquid hic quo iste mollitia.

Read post



Aut numquam voluptates consequatur.

Read post



Laborum nam ut eligendi sit a asperiores  
modi voluptas quia.

Read post

Showing 1 to 3 of 30 results

## Post Detail Page

WirjawanNotes THE BLOG  
OF GITA WIRJAWAN

IT REALLY COUNTS

### Aut numquam voluptates consequatur.

Minus ad et tenetur ut nam asperiores deserunt mollitia facilis aut qui nostrum voluptas odit eligendi deleniti reiciendis ut ea sit.

By **Karine Fisher** | 30 May, 2023 [Long Reads](#)



Nulla veniam qui enim sunt adipisci. Quo fugiat enim eligendi dolor. Perferendis voluptatem cumque quia labore modi et. Molestiae nulla nam ut qui. Cupiditate impedit quia placeat non. Accusantium aut est eum animi optio ut ut sit. Voluptatum minima magni molestiae omnis accusantium sit. Illo soluta optio quia ipsa laudantium sed.

Video Section

