

PRAKTIKUM MODUL 03
PEMROGRAMAN FRAMEWORK
ROUTING AND BUNDLING ASSET IN LARAVEL



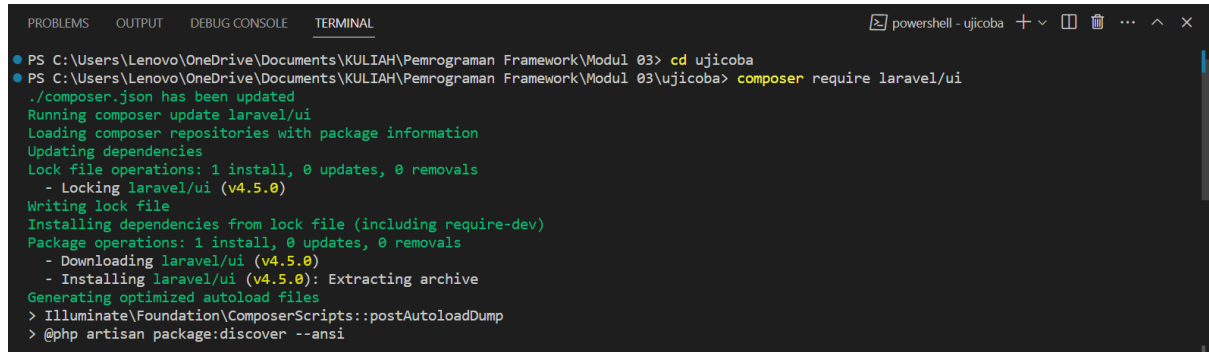
DISUSUN OLEH:

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PROGRAM STUDI SISTEM INFORMASI
FAKULTAS REKAYASA INDUSTRI
TELKOM UNIVERSITY SURABAYA
2024

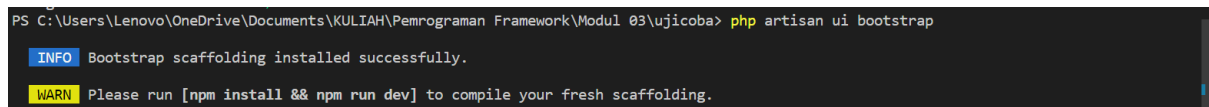
Generate Laravel Project dan Laravel UI

1. Pertama masuk kedalam direktori project lalu lakukan instalasi Package Laravel UI dengan cara “composer require laravel/ui”



```
PS C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03> cd ujicoba
PS C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba> composer require laravel/ui
./composer.json has been updated
Running composer update laravel/ui
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
- Locking laravel/ui (v4.5.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
- Downloading laravel/ui (v4.5.0)
- Installing laravel/ui (v4.5.0): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
```

2. Kemudian generate scaffolding untuk project Laravel berbasis CSS framework Bootstrap

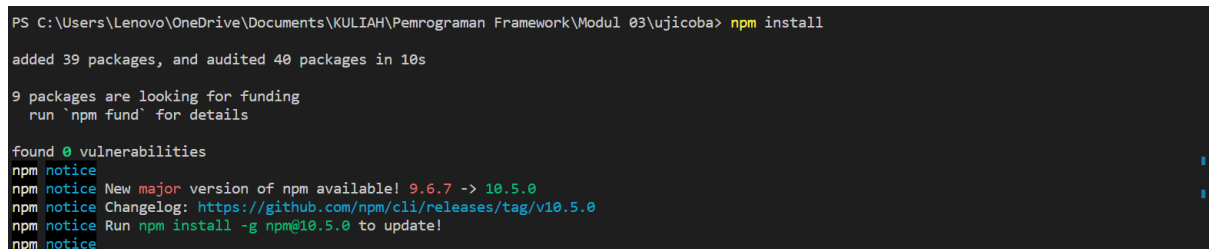


```
PS C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba> php artisan ui bootstrap

[INFO] Bootstrap scaffolding installed successfully.

[WARN] Please run [npm install && npm run dev] to compile your fresh scaffolding.
```

3. Terakhir install dependensi yang dibutuhkan melalui npm install



```
PS C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba> npm install

added 39 packages, and audited 40 packages in 10s

9 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

npm notice
npm notice New major version of npm available! 9.6.7 -> 10.5.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.0
npm notice Run `npm install -g npm@10.5.0` to update!
npm notice
```

Bundling Asset dengan Vite

1. Pertama lakukan konfigurasi vite agar menerapkan fitur “Refreshing on Save” pada file vite.config.js dengan ketentuan seperti berikut.

```
JS vite.config.js X
Modul 03 > ujicoba > JS vite.config.js > ...
1 import laravel from "laravel-vite-plugin";
2 import { defineConfig } from "vite";
3 export default defineConfig({
4   plugins: [
5     laravel({
6       input: ["resources/sass/app.scss", "resources/js/app.js"],
7       refresh: true,
8     }),
9   ],
10 });
11
```

2. Kemudian untuk menerapkan fitur “Processing Static Assets With Vite” yang nantinya Vite akan merujuk pada path direktori yang telah didefinisikan untuk aset gambar.

```
JS vite.config.js JS app.js X
Modul 03 > ujicoba > resources > js > JS app.js
1 import './bootstrap';
2 import.meta.glob(['../images/**']);
3
```

3. Mengubah tampilan dari halaman welcome menggunakan Blade Directive @vite() dan memanggil aset gambar/image dengan pendekatan Vite.

```
JS vite.config.js JS app.js welcome.blade.php X
Modul 03 > ujicoba > resources > views > welcome.blade.php > html > body
3
4 <head>
5   <meta charset="UTF-8">
6   <meta http-equiv="X-UA-Compatible" content="IE=edge">
7   <meta name="viewport" content="width=device-width,
8     initial-scale=1.0">
9   <title>Welcome</title>
10   @vite('resources/sass/app.scss')
11 </head>
12
13 <body>
14   <div class="container m-5">
15     {{-- Contoh cara mereferensikan gambar di dalam file blade dengan
16     menggunakan pendekatan Vite --}}
17     
18   </div>
19   @vite('resources/js/app.js')
20 </body>
21
22 </html>
23
```

4. Selanjutnya yaitu menjalankan website dengan “npm run dev” untuk vite dan “php artisan serve” untuk laravel nya.

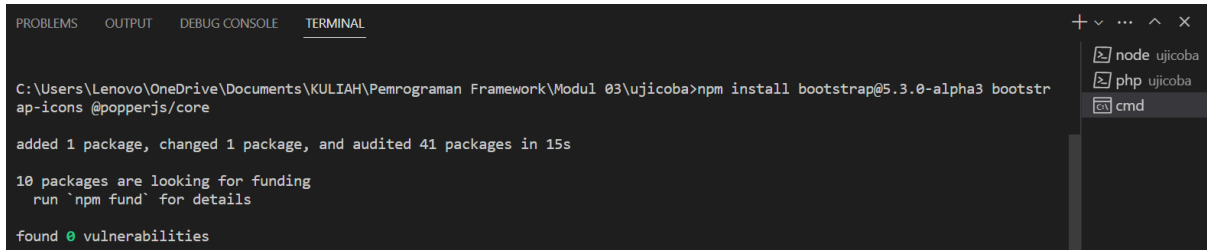
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
PS C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba> npm run dev

> dev
> vite

VITE v5.1.6 ready in 430 ms
→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

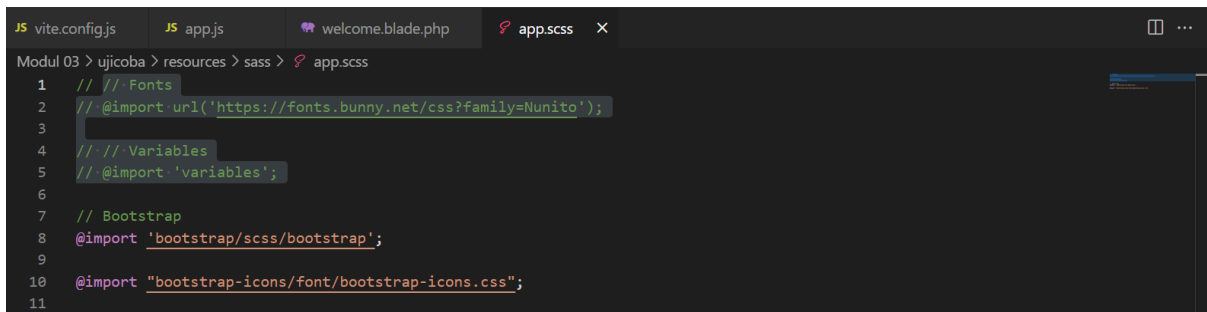
Install Bootstrap dan Bootstrap Icons pada Project Laravel

1. Pada project laravel perlu menginstall bootstrap popper dan bootstrap icons dengan cara seperti berikut agar bootstrap dapat digunakan nantinya.



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba>npm install bootstrap@5.3.0-alpha3 bootstrap-popper @popperjs/core
added 1 package, changed 1 package, and audited 41 packages in 15s
10 packages are looking for funding
run `npm fund` for details
found 0 vulnerabilities
```

2. Kemudian menambahkan import untuk bootstrap icons pada folder resources/sass/app.css. dan melakukan comment/menghapus bagian font dan variable diatasnya karena tidak digunakan (seperti gambar dibawah ini).

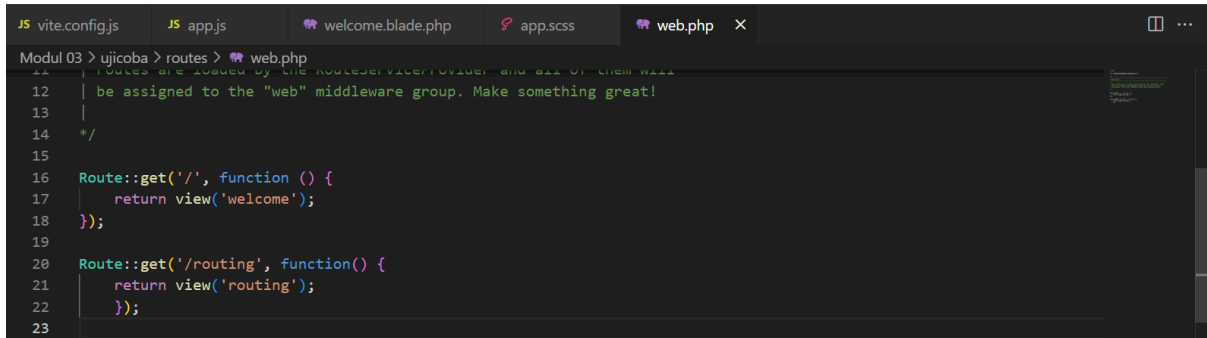


```
JS vite.config.js JS app.js welcome.blade.php app.scss x
Modul 03 > ujicoba > resources > sass > app.scss
1 // // Fonts
2 // @import url('https://fonts.bunny.net/css?family=Nunito');
3
4 // // Variables
5 // @import 'variables';
6
7 // Bootstrap
8 @import 'bootstrap/scss/bootstrap';
9
10 @import "bootstrap-icons/font/bootstrap-icons.css";
11
```

Praktik Laravel Routing

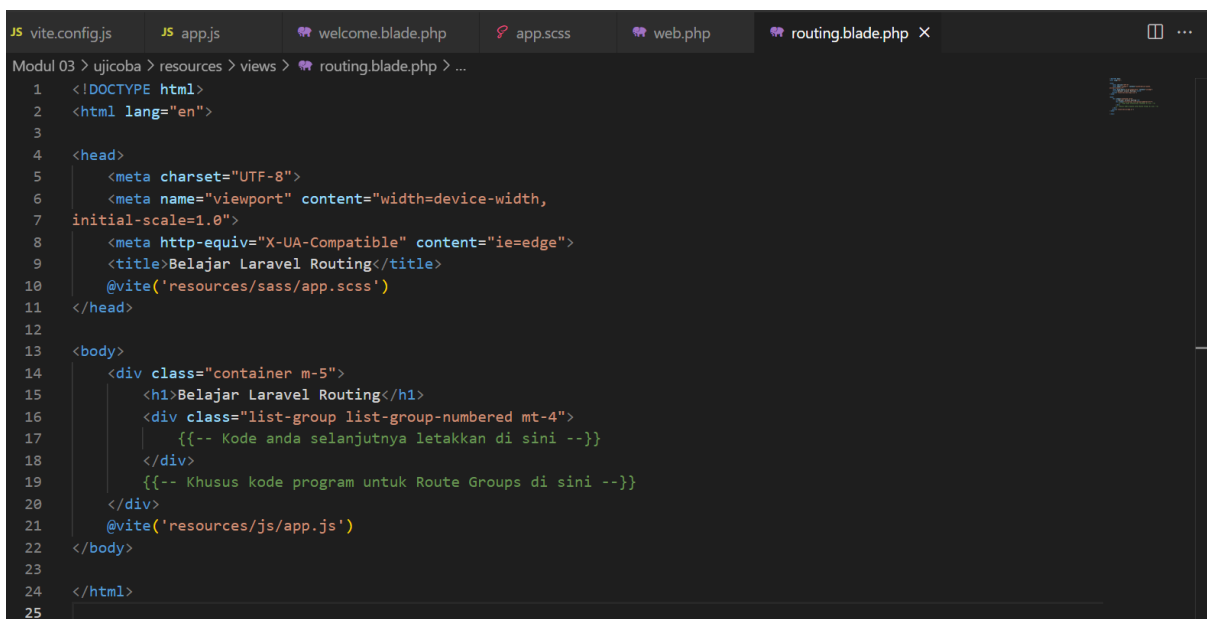
1. Praktik simple routing

1.1 Pertama menambahkan routing pada folder routes/web.php untuk mengakses pada halaman /routing gunanya pada file web.php adalah mendefine/mendefinisikan semua route yang akan digunakan nantinya.



```
Modul 03 > ujicoba > routes > web.php
11 | Routes are loaded by the RouteServiceProvider and all of them will
12 | be assigned to the "web" middleware group. Make something great!
13 |
14 | */
15 |
16 | Route::get('/', function () {
17 |     return view('welcome');
18 | });
19 |
20 | Route::get('/routing', function() {
21 |     return view('routing');
22 | });
23 |
```

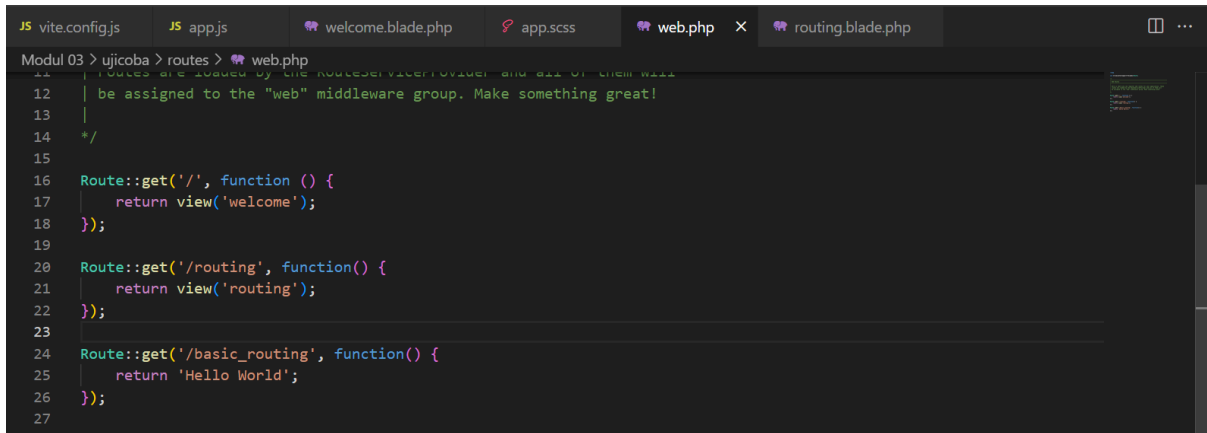
1.2 Kemudian membuat file baru untuk halaman routing dengan nama routing.blade.php pada folder /resources/views/



```
Modul 03 > ujicoba > resources > views > routing.blade.php > ...
1 | <!DOCTYPE html>
2 | <html lang="en">
3 |
4 | <head>
5 |     <meta charset="UTF-8">
6 |     <meta name="viewport" content="width=device-width,
7 |     initial-scale=1.0">
8 |     <meta http-equiv="X-UA-Compatible" content="ie=edge">
9 |     <title>Belajar Laravel Routing</title>
10 |     @vite('resources/sass/app.scss')
11 | </head>
12 |
13 | <body>
14 |     <div class="container m-5">
15 |         <h1>Belajar Laravel Routing</h1>
16 |         <div class="list-group list-group-numbered mt-4">
17 |             {{-- Kode anda selanjutnya letakkan di sini --}}
18 |         </div>
19 |         {{-- Khusus kode program untuk Route Groups di sini --}}
20 |     </div>
21 |     @vite('resources/js/app.js')
22 | </body>
23 |
24 | </html>
25 |
```

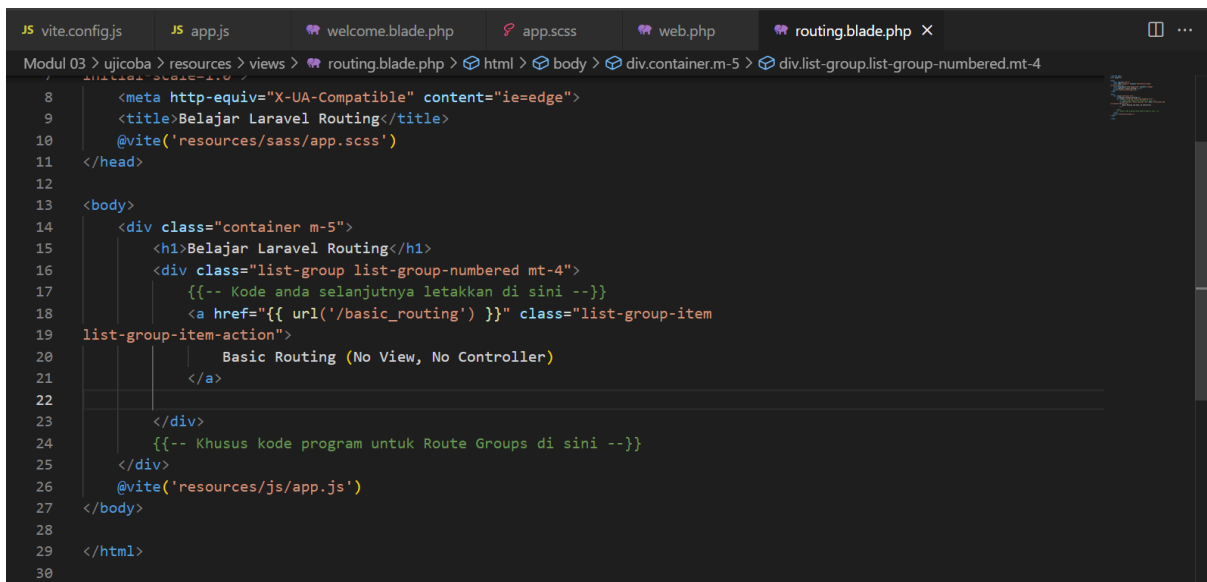
2. Basic Routing

2.1 Untuk basic routing pada file web.php ditambahkan route untuk ke halaman dengan nama hello world



```
11 | Routes are loaded by the RouteServiceProvider and all of them will
12 | be assigned to the "web" middleware group. Make something great!
13 |
14 | */
15 |
16 | Route::get('/', function () {
17 |     return view('welcome');
18 | });
19 |
20 | Route::get('/routing', function() {
21 |     return view('routing');
22 | });
23 |
24 | Route::get('/basic_routing', function() {
25 |     return 'Hello World';
26 | });
27 |
```

2.2 Selanjutnya pada bagian halaman routing(routing.blade.php) tambahkan routingnya seperti berikut (line 18-21) dimana routing ini menggunakan a href dan url yang dituju.



```
8 | <meta http-equiv="X-UA-Compatible" content="ie=edge">
9 | <title>Belajar Laravel Routing</title>
10 | @vite('resources/sass/app.scss')
11 | </head>
12 |
13 | <body>
14 |     <div class="container m-5">
15 |         <h1>Belajar Laravel Routing</h1>
16 |         <div class="list-group list-group-numbered mt-4">
17 |             {{-- Kode anda selanjutnya letakkan di sini --}}
18 |             <a href="{{ url('/basic_routing') }}" class="list-group-item
19 | list-group-item-action">
20 |                 Basic Routing (No View, No Controller)
21 |             </a>
22 |
23 |         </div>
24 |         {{-- Khusus kode program untuk Route Groups di sini --}}
25 |     </div>
26 |     @vite('resources/js/app.js')
27 | </body>
28 |
29 | </html>
30 |
```

3. View Route

3.1 Untuk view route dilakukan dengan cara menambahkan routing untuk ke halaman view route pada file web.php (line 28-29)

```
JS vite.config.js JS app.js welcome.blade.php app.scss web.php X view_route.blade.php routing.blade.php
Modul 03 > ujicoba > routes > web.php
11 | Routes are loaded by the RouteServiceProvider and all of them will
12 | be assigned to the "web" middleware group. Make something great!
13 |
14 | */
15 |
16 | Route::get('/', function () {
17 |     return view('welcome');
18 | });
19 |
20 | Route::get('/routing', function() {
21 |     return view('routing');
22 | });
23 |
24 | Route::get('/basic_routing', function() {
25 |     return 'Hello World';
26 | });
27 |
28 | Route::view('/view_route', 'view_route');
29 | Route::view('/view_route', 'view_route', ['name' => 'Rafael']);
30 |
```

3.2 Membuat halaman baru dengan nama view_route.blade.php

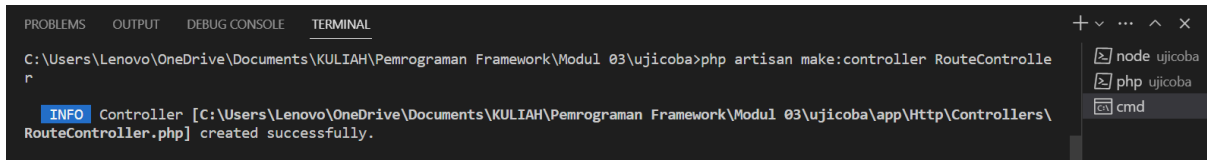
```
JS vite.config.js JS app.js welcome.blade.php app.scss web.php view_route.blade.php X routing.blade.php
Modul 03 > ujicoba > resources > views > view_route.blade.php > ...
1 | !DOCTYPE html>
2 | <html lang="en">
3 |
4 | <head>
5 |     <meta charset="UTF-8">
6 |     <meta name="viewport" content="width=device-width,
7 | initial-scale=1.0">
8 |     <meta http-equiv="X-UA-Compatible" content="ie=edge">
9 |     <title>View Route</title>
10 |     @vite('resources/sass/app.scss')
11 | </head>
12 |
13 | <body>
14 |     <div class="container m-5">
15 |         <h1>This is from View Route</h1>
16 |         <p>Hello, My name is {{ $name }}</p>
17 |     </div>
18 |     @vite('resources/js/app.js')
19 | </body>
20 |
21 | </html>
```

3.3 Terakhir menambahkan routingnya pada halaman routing.blade.php (line 23-26)

```
JS vite.config.js JS app.js welcome.blade.php app.scss web.php view_route.blade.php routing.blade.php X
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4 > a.list-group-item.list
9 |     <title>Belajar Laravel Routing</title>
10 |     @vite('resources/sass/app.scss')
11 | </head>
12 |
13 | <body>
14 |     <div class="container m-5">
15 |         <h1>Belajar Laravel Routing</h1>
16 |         <div class="list-group list-group-numbered mt-4">
17 |             {{-- Kode anda selanjutnya letakkan di sini --}}
18 |             <a href="{{ url('/basic_routing') }}" class="list-group-item
19 | list-group-item-action">
20 |                 Basic Routing (No View, No Controller)
21 |             </a>
22 |
23 |             <a href="{{ url('/view_route') }}" class="list-group-item
24 | list-group-item-action">
25 |                 View Route
26 |             </a>
27 |         </div>
28 |     </div>
29 | 
```

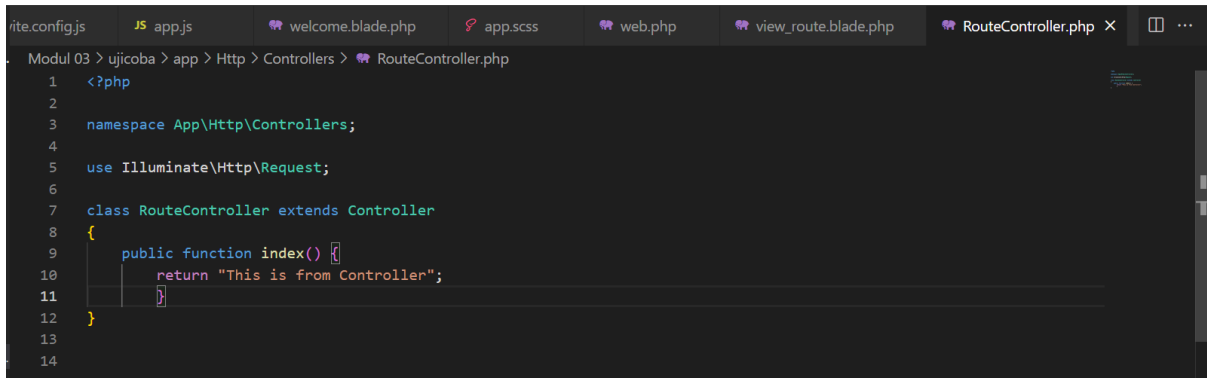
4. Controller Route

4.1 Pertama-tama perlu melakukan generate file controller dengan nama RouteController



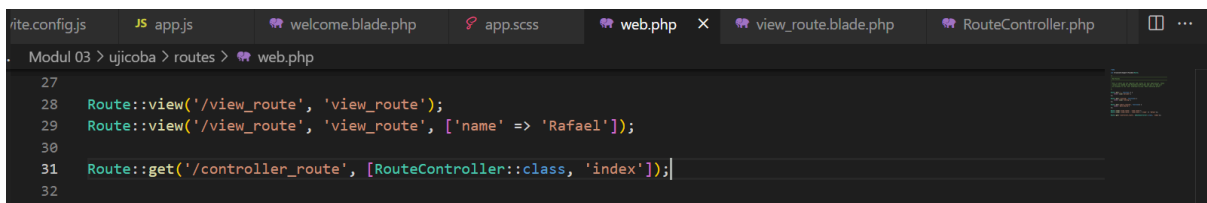
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba>php artisan make:controller RouteController
[INFO] Controller [C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba\app\Http\Controllers\RouteController.php] created successfully.
```

4.2 Buka file RouteController.php kemudian tambahkan class function pada file RouteController.php yang ada di direktori berikut app/Http/RouteController.php



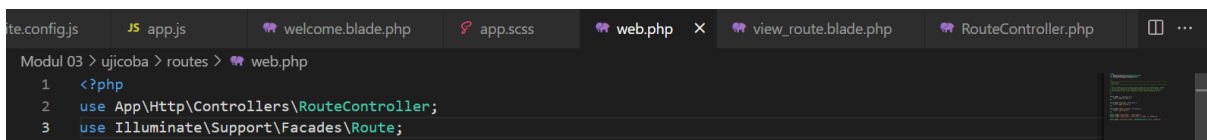
```
ite.config.js JS app.js welcome.blade.php app.scss web.php view_route.blade.php RouteController.php
Modul 03 > ujicoba > app > Http > Controllers > RouteController.php
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class RouteController extends Controller
8 {
9     public function index() {
10         return "This is from Controller";
11     }
12 }
13
14
```

4.3 Selanjutnya buat routing pada file web.php untuk mengarah pada halaman Controller Route



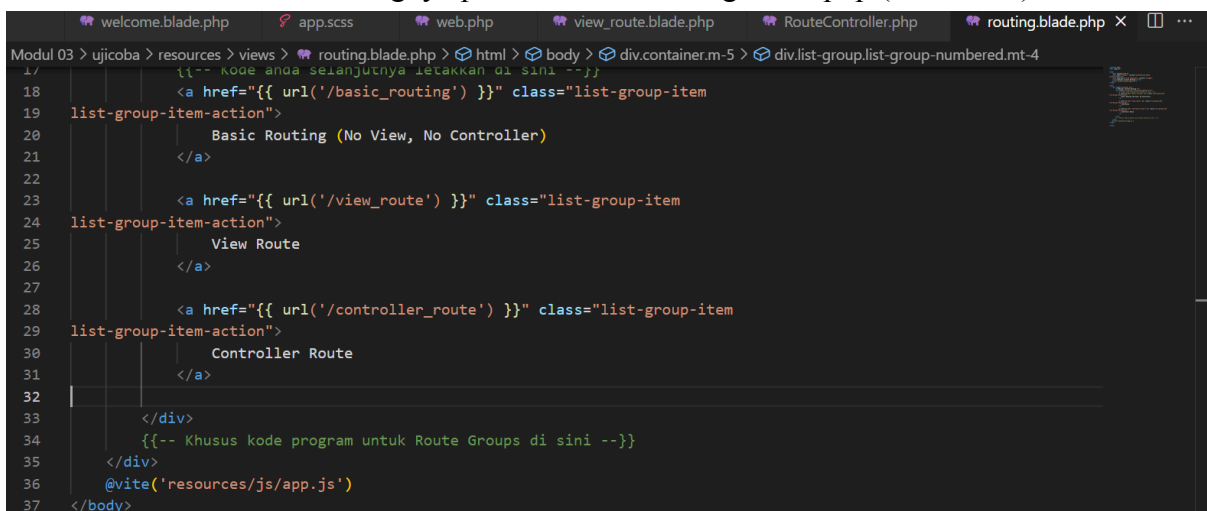
```
ite.config.js JS app.js welcome.blade.php app.scss web.php view_route.blade.php RouteController.php
Modul 03 > ujicoba > routes > web.php
27
28 Route::view('/view_route', 'view_route');
29 Route::view('/view_route', 'view_route', ['name' => 'Rafael']);
30
31 Route::get('/controller_route', [RouteController::class, 'index']);
32
```

4.4 Kemudian cek dibagian atas apakah sudah terimport dengan benar seperti ini



```
ite.config.js JS app.js welcome.blade.php app.scss web.php view_route.blade.php RouteController.php
Modul 03 > ujicoba > routes > web.php
1 <?php
2 use App\Http\Controllers\RouteController;
3 use Illuminate\Support\Facades\Route;
```

4.5 Terakhir tambahkan routingnya pada halaman routing.blade.php (line 28-31)



```
welcome.blade.php app.scss web.php view_route.blade.php RouteController.php routing.blade.php
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
1/
18 <a href="{{ url('/basic_routing') }}" class="list-group-item
19 list-group-item-action">
20     Basic Routing (No View, No Controller)
21 </a>
22
23 <a href="{{ url('/view_route') }}" class="list-group-item
24 list-group-item-action">
25     View Route
26 </a>
27
28 <a href="{{ url('/controller_route') }}" class="list-group-item
29 list-group-item-action">
30     Controller Route
31 </a>
32
33 </div>
34 {{-- Khusus kode program untuk Route Groups di sini --}}
35 </div>
36 @vite('resources/js/app.js')
37 </body>
```


5. Redirect Route

5.1 Buat redirect route pada file web.php (line 33)

```
JS vite.config.js JS app.js welcome.blade.php web.php X routing.blade.php
Modul 03 > ujicoba > routes > web.php
30
31 Route::get('/controller_route', [RouteController::class, 'index']);
32
33 Route::redirect('/', '/routing');
34
```

5.2 Kemudian pada halaman routingnya tambahkan juga untuk redirect route (line 33-35)
redirect route ini gunanya untuk kembali ke halaman saat ini apabila kita menekan tombol atau route ke halaman lainnya.

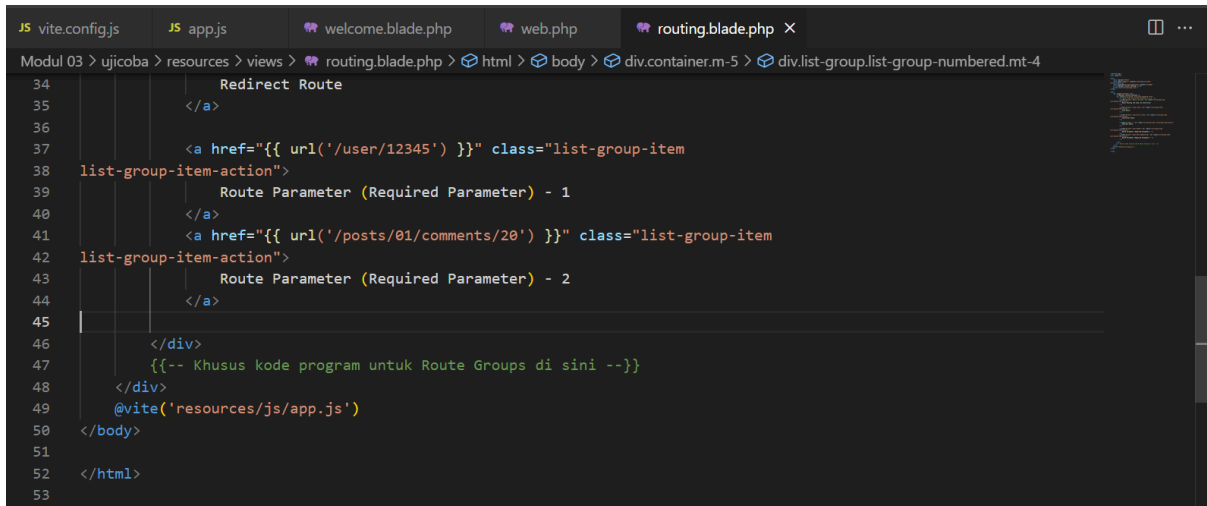
```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
28 <a href="{{ url('/controller_route') }}" class="list-group-item
29 list-group-item-action">
30     Controller Route
31 </a>
32
33 <a href="{{ url('/') }}" class="list-group-item list-group-item-action">
34     Redirect Route
35 </a>
36
37 </div>
38 {{-- Khusus kode program untuk Route Groups di sini --}}
39 </div>
40 @vite('resources/js/app.js')
41 </body>
42
43 </html>
44
```

6. Route Parameter (Required Parameter)

6.1 Tambahkan route parameter pada file web.php (line 38-40)

```
JS vite.config.js JS app.js welcome.blade.php web.php X routing.blade.php
Modul 03 > ujicoba > routes > web.php
30
31 Route::get('/controller_route', [RouteController::class, 'index']);
32
33 Route::redirect('/', '/routing');
34
35 Route::get('/user/{id}', function($id) {
36     return "User Id: ".$id;
37 });
38 Route::get('/posts/{post}/comments/{comment}', function($postId, $commentId) {
39     return "Post Id: ".$postId.", Comment Id: ".$commentId;
40 });
41
```

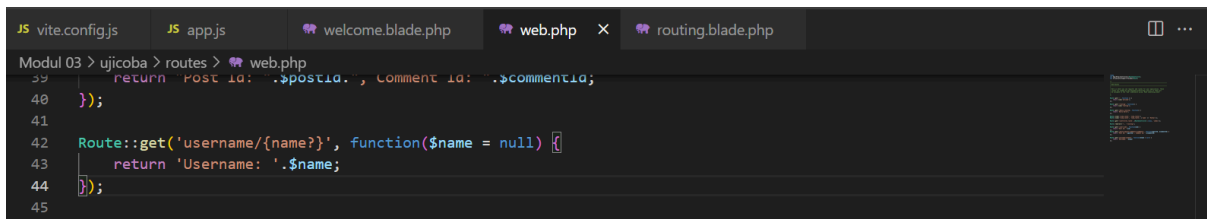
6.2 Pada halaman routing tambahkan required parameter route untuk akses halaman route parameter (line 37-40 dengan parameter /user/12345) dan (line 41-44 dengan parameter /posts/01/comments/20)



```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
34 |         Redirect Route
35 |         </a>
36 |
37 |         <a href="{{ url('/user/12345') }}" class="list-group-item
38 | list-group-item-action">
39 |             Route Parameter (Required Parameter) - 1
40 |         </a>
41 |         <a href="{{ url('/posts/01/comments/20') }}" class="list-group-item
42 | list-group-item-action">
43 |             Route Parameter (Required Parameter) - 2
44 |         </a>
45 |
46 |     </div>
47 |     {{-- Khusus kode program untuk Route Groups di sini --}}
48 | </div>
49 | @vite('resources/js/app.js')
50 | </body>
51 |
52 | </html>
53 |
```

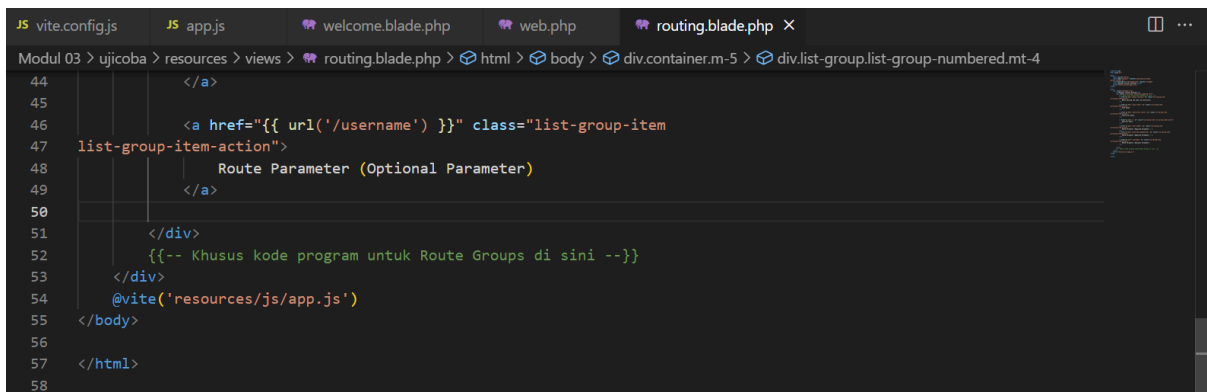
7. Route Parameter (Optional Parameter)

7.1 Tambahkan routenya pada file web.php dengan optional parameter ({name?}) yang dimana apabila untuk username boleh kosong ataupun ada usernamenya.



```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
Modul 03 > ujicoba > routes > web.php
39 | return 'Post id: '.$postId, 'Comment id: '.$commentId;
40 | });
41 |
42 | Route::get('username/{name?}', function($name = null) {
43 |     return 'Username: '.$name;
44 | });
45 |
```

7.2 Kemudian tambahkan juga route pada halaman routing agar bisa di akses (line 46-49)



```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
44 |         </a>
45 |
46 |         <a href="{{ url('/username') }}" class="list-group-item
47 | list-group-item-action">
48 |             Route Parameter (Optional Parameter)
49 |         </a>
50 |
51 |     </div>
52 |     {{-- Khusus kode program untuk Route Groups di sini --}}
53 | </div>
54 | @vite('resources/js/app.js')
55 | </body>
56 |
57 | </html>
58 |
```

8. Route With Regular Expression Constraints

8.1 Tambahkan route expression atau syarat/ketentuan tertentu pada file web.php seperti berikut (line 46-48)

```
JS vite.config.js JS app.js welcome.blade.php web.php X routing.blade.php
Modul 03 > ujicoba > routes > web.php
39     return 'Post id: '.$postId, 'Comment id: '.$commentId;
40 });
41
42 Route::get('username/{name?}', function($name = null) {
43     return 'Username: '.$name;
44 });
45
46 Route::get('/title/{title}', function($title) {
47     return 'Title: '.$title;
48 }->where('title', '[A-Za-z]+));
49
```

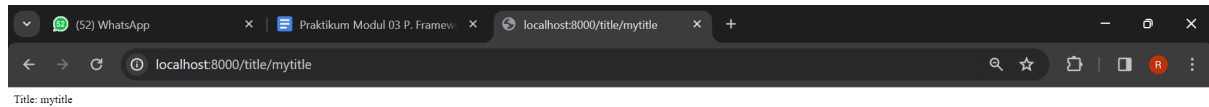
8.2 Selanjutnya tambahkan route pada halaman routing.blade.php (line 51-54) pada route jenis ini terdapat sedikit perbedaan dari route lainnya dimana terdapat syarat/ketentuan yang harus diikuti.

```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
49     </a>
50
51     <a href="{{ url('/title/this-is-my-title') }}" class="list-group-item
52 list-group-item-action">
53         Route With Regular Expression Constraints
54     </a>
55
56 </div>
57 {{-- Khusus kode program untuk Route Groups di sini --}}
58 </div>
59 @vite('resources/js/app.js')
60 </body>
61
62 </html>
63
```

Ketika halaman dengan title tersebut dibuka maka akan muncul 404 Not found karena terdapat pengecualian pada file web.php dimana yang dapat diinputkan hanyalah huruf kapital dan huruf kecil, tidak termasuk tanda baca ataupun angka, pada bagian `where('title', '[A-Za-z]+')` sedangkan pada file routing.blade.php urlnya terdapat tanda (-) `url('/title/this-is-my-title')` hal itu menyebabkan tidak terbacanya url tersebut dan menampilkan 404 Not Found. Jika ingin diakses dihapus saja tanda baca dan hanya menggunakan huruf biasa atau huruf kapital seperti ini.

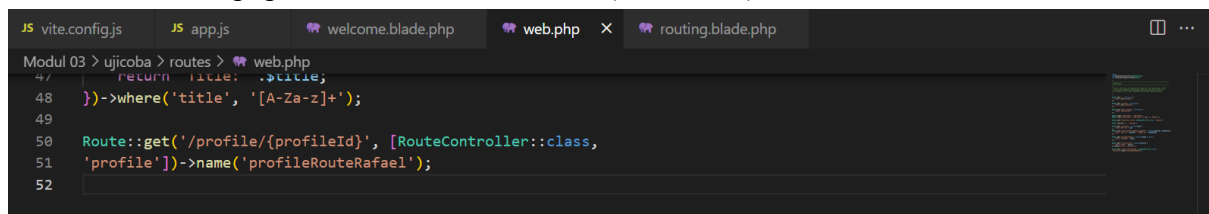
```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X
> resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4 > a.list-group-item.list-group-item-action
49     </a>
50
51     <a href="{{ url('/title/mytitle') }}" class="list-group-item
52 list-group-item-action">
53         Route With Regular Expression Constraints
54     </a>
55
```

Dan apabila url hanya menggunakan huruf biasa atau huruf kapital maka tampilan akan menjadi seperti ini.

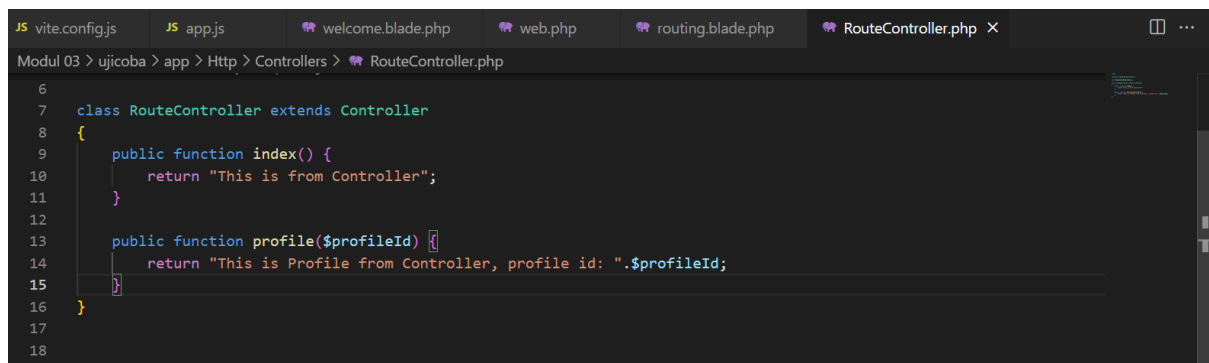


9. Named Route

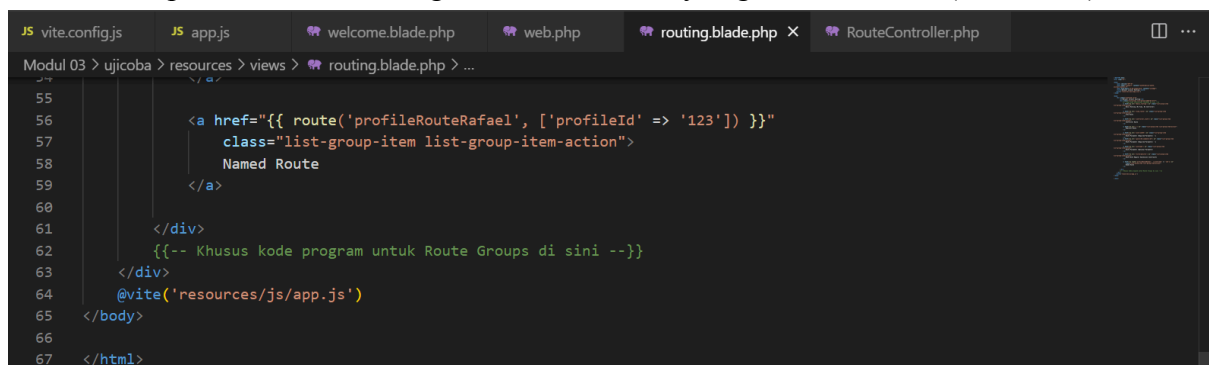
9.1 Pada file web.php tambahkan named route (line 50-51)



9.2 Pada RouteController.php tambahkan function berikut yang berguna untuk mengakses profil berdasarkan id (line 13-15)



9.3 Terakhir pada halaman routing tambahkan routenya agar bisa diakses (line 56-59)



10. Route Priority

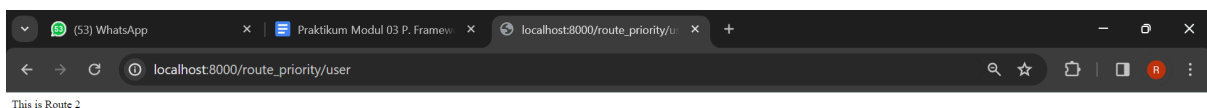
10.1 Tambahkan route priority pada web.php lalu coba comment pada priority paling atas (route one) (lane 53-61)

```
JS vite.config.js JS app.js welcome.blade.php web.php x routing.blade.php RouteController.php
Modul 03 > ujicoba > routes > web.php
47     return title: $title;
48 }->where('title', '[A-Za-z]+');
49
50 Route::get('/profile/{profileId}', [RouteController::class,
51 'profile'])->name('profileRouteRafael');
52
53 // Route::get('/route_priority/{rpId}', function($rpId) {
54 //     return "This is Route One";
55 // });
56 Route::get('/route_priority/user', function() {
57     return "This is Route 1";
58 });
59 Route::get('/route_priority/user', function() {
60     return "This is Route 2";
61 });
62
```

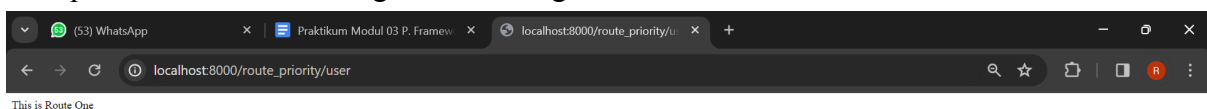
10.2 Pada halaman routing tambahkan routenya (lane 61-64)

```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php x RouteController.php
> resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4 > a.list-group-item.list-group-item-action
60
61     <a href="{{ url('/route_priority/user') }}" class="list-group-item
62 list-group-item-action">
63         Route Priority
64     </a>
65 </div>
66 {{-- Khusus kode program untuk Route Groups di sini --}}
67 </div>
68 @vite('resources/js/app.js')
69 </body>
70
71 </html>
72
```

Terkait perbedaan halaman yang dituju karena pada file web.php tertera prioritas berdasarkan Id diutamakan daripada user. Apabila bagian tersebut masih di comment maka akan muncul ke halaman route 2

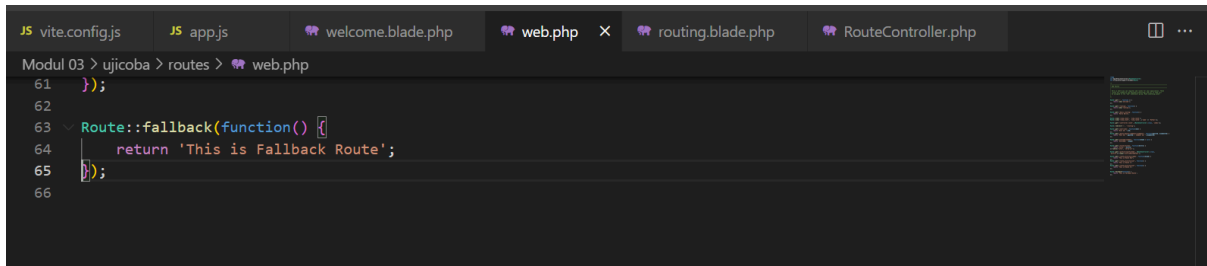


dan apabila comment dihilangkan akan berganti ke halaman berdasarkan id



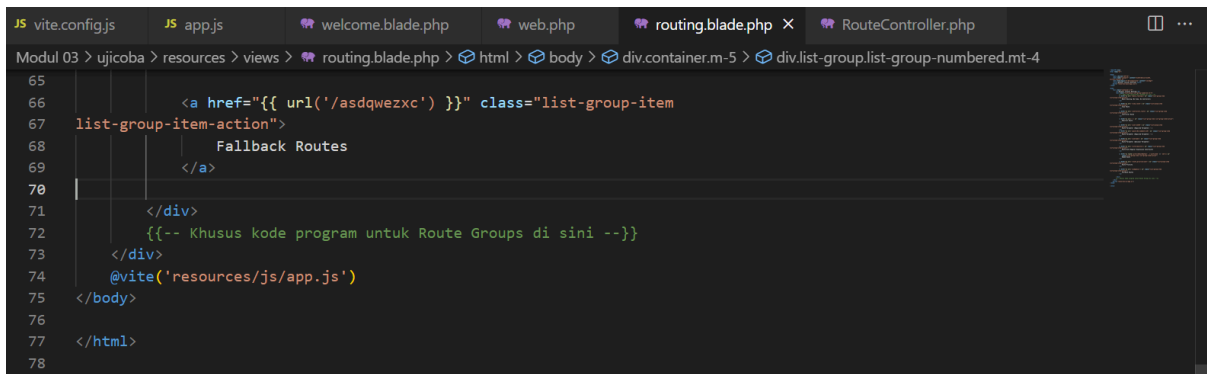
11. Fallback Routes

11.1 Tambahkan fallback route pada file web.php (line 63-65)



```
JS vite.config.js JS app.js welcome.blade.php web.php X routing.blade.php RouteServiceProvider.php
Modul 03 > ujicoba > routes > web.php
61 });
62
63 Route::fallback(function() {
64     return 'This is Fallback Route';
65 });
66
```

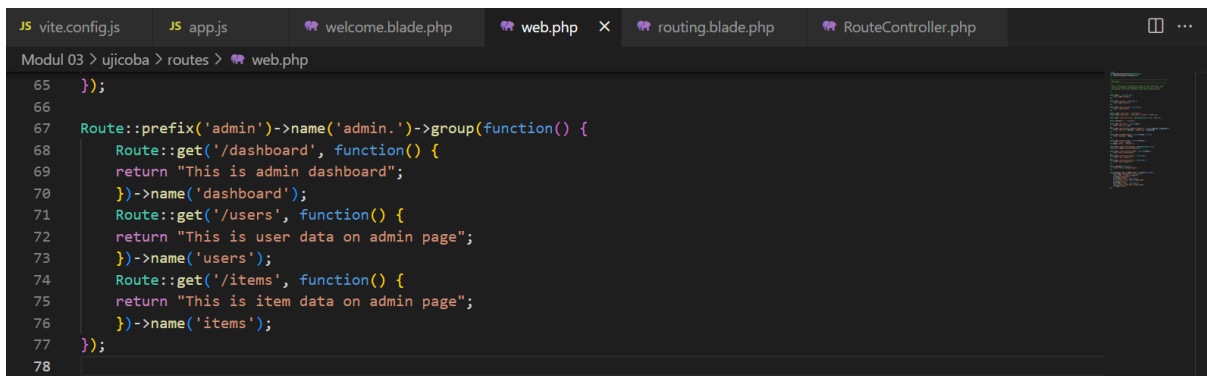
11.2 Pada halaman routing tambahkan juga routenya agar bisa diakses (line 66-69)



```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X RouteServiceProvider.php
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5 > div.list-group.list-group-numbered.mt-4
65
66 <a href="{{ url('/asdqwezxc') }}" class="list-group-item
67 list-group-item-action">
68     Fallback Routes
69 </a>
70
71 </div>
72 {{-- Khusus kode program untuk Route Groups di sini --}}
73 </div>
74 @vite('resources/js/app.js')
75 </body>
76
77 </html>
78
```

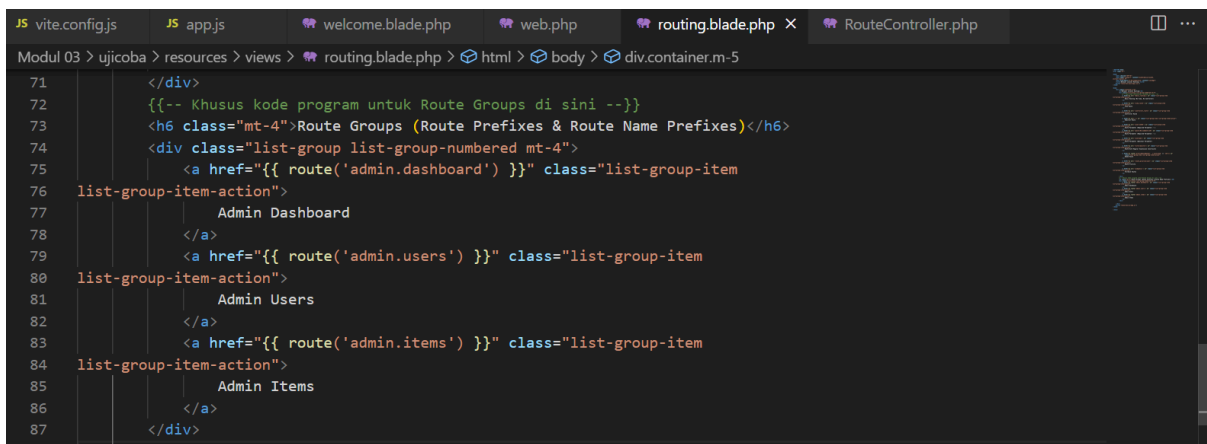
12. Route Groups (Route Prefixes & Route Name Prefixes)

12.1 Pada file web.php tambahkan route groupnya seperti berikut (line 67-77)



```
JS vite.config.js JS app.js welcome.blade.php web.php X routing.blade.php RouteServiceProvider.php
Modul 03 > ujicoba > routes > web.php
65 });
66
67 Route::prefix('admin')->name('admin.')->group(function() {
68     Route::get('/dashboard', function() {
69         return "This is admin dashboard";
70     })->name('dashboard');
71     Route::get('/users', function() {
72         return "This is user data on admin page";
73     })->name('users');
74     Route::get('/items', function() {
75         return "This is item data on admin page";
76     })->name('items');
77 });
78
```

12.2 Kemudian tambahkan routenya pada halaman routing seperti berikut (line 73-86)



```
JS vite.config.js JS app.js welcome.blade.php web.php routing.blade.php X RouteServiceProvider.php
Modul 03 > ujicoba > resources > views > routing.blade.php > html > body > div.container.m-5
71 </div>
72 {{-- Khusus kode program untuk Route Groups di sini --}}
73 <h6 class="mt-4">Route Groups (Route Prefixes & Route Name Prefixes)</h6>
74 <div class="list-group list-group-numbered mt-4">
75     <a href="{{ route('admin.dashboard') }}" class="list-group-item
76 list-group-item-action">
77         Admin Dashboard
78     </a>
79     <a href="{{ route('admin.users') }}" class="list-group-item
80 list-group-item-action">
81         Admin Users
82     </a>
83     <a href="{{ route('admin.items') }}" class="list-group-item
84 list-group-item-action">
85         Admin Items
86     </a>
87 </div>
88
```

13. View Route List

13.1 Untuk melihat route list cukup masukkan “php artisan route:list” pada cmd. Total route yang telah didefinisikan/dibuat sebanyak 22 route.

```
C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba>php artisan route:list

GET|HEAD / .....
GET|HEAD username/{name?} .....
GET|HEAD view_route .....
GET|HEAD {fallbackPlaceholder} .....

Showing [22] routes
```

14. Route Caching

14.1 Cara untuk melakukan caching route dengan cara “php artisan route:cache”

```
C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba>php artisan route:cache

INFO Routes cached successfully.
```

14.2 Terakhir yaitu menghapus cache route dengan cara “php artisan route:clear”

```
C:\Users\Lenovo\OneDrive\Documents\KULIAH\Pemrograman Framework\Modul 03\ujicoba>php artisan route:clear

INFO Route cache cleared successfully.
```

15. Tampilan dari halaman Routing

The screenshot shows a web browser window with the address bar displaying 'localhost:8000/routing'. The page title is 'Belajar Laravel Routing'. The content is organized into two main sections: 'Basic Routing' and 'Route Groups (Route Prefixes & Route Name Prefixes)'. Each section contains a numbered list of topics.

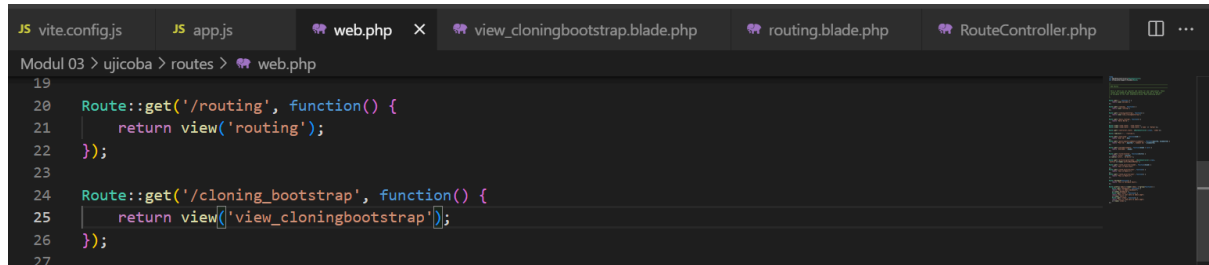
Basic Routing
1. Basic Routing (No View, No Controller)
2. View Route
3. Controller Route
4. Redirect Route
5. Route Parameter (Required Parameter) - 1
6. Route Parameter (Required Parameter) - 2
7. Route Parameter (Optional Parameter)
8. Route With Regular Expression Constraints
9. Named Route
10. Route Priority
11. Fallback Routes

Route Groups (Route Prefixes & Route Name Prefixes)
1. Admin Dashboard
2. Admin Users
3. Admin Items

Clone Website Bootstrap in Laravel

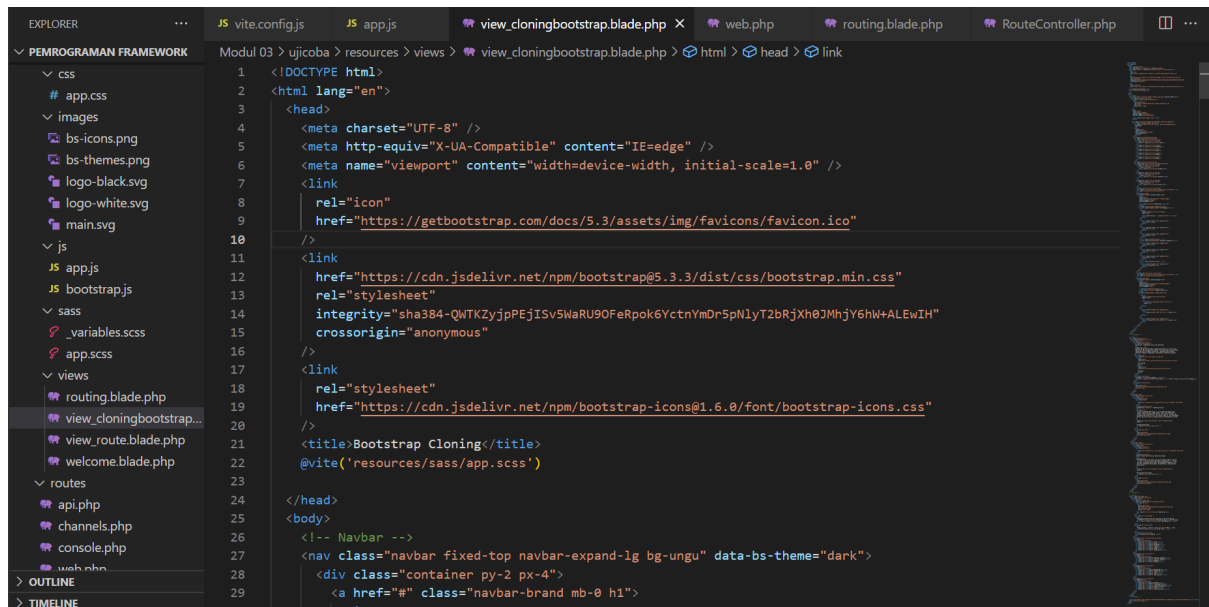
URL repository: <https://github.com/elfill03/Pemrograman-Framework>

1. Untuk memindahkan cloning website bootstrap yang awalnya pada html kedalam laravel pertama melakukan pembuatan routenya pada file web.php. Saya menggunakan basic route untuk akses halaman cloning website bootstrap.



```
19
20 Route::get('/routing', function() {
21     return view('routing');
22 });
23
24 Route::get('/cloning_bootstrap', function() {
25     return view('view_cloningbootstrap');
26 });
27
```

2. Kemudian buat file view baru untuk cloning website bootstrapnya dan pindahkan code htmlnya kedalam file tersebut. Pindahkan juga gambar-gambar yang digunakan kedalam folder resource/images.



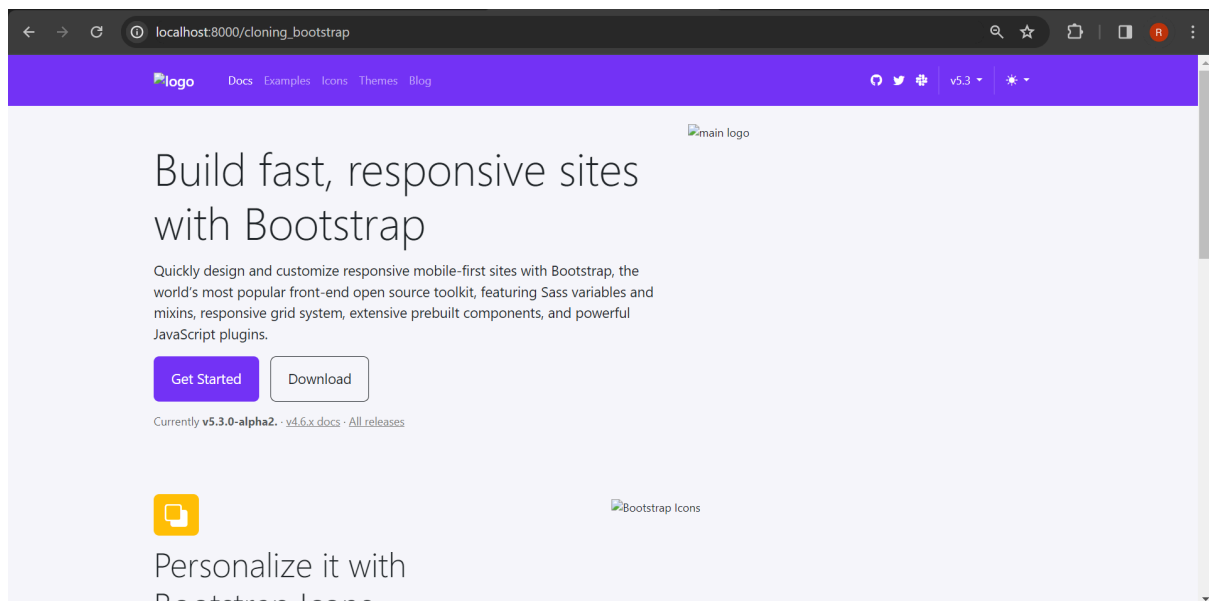
```
1 <!DOCTYPE html1>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8" />
5 <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6 <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7 <link
8     rel="icon"
9     href="https://getbootstrap.com/docs/5.3/assets/img/favicons/favicon.ico"
10 />
11 <link
12     href="https://cdn.jsdelivr.net/npm/bootstrap@5.3/dist/css/bootstrap.min.css"
13     rel="stylesheet"
14     integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMHjY6hW+ALEwIH"
15     crossorigin="anonymous"
16 />
17 <link
18     rel="stylesheet"
19     href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.6.0/font/bootstrap-icons.css"
20 />
21 <title>Bootstrap Cloning</title>
22 @vite('resources/sass/app.scss')
23
24 </head>
25 <body>
26 <!-- Navbar -->
27 <nav class="navbar fixed-top navbar-expand-lg bg-ungu" data-bs-theme="dark">
28 <div class="container py-2 px-4">
29 <a href="#" class="navbar-brand mb-0 h1">
30 </div>
```


3. Apabila menggunakan css tambahan external dapat ditambahkan pada file app.scss

```
JS vite.config.js JS app.js welcome.blade.php web.php view_cloningbootstrap.blade.php app.scss x rout ...
Modul 03 > ujicoba > resources > sass > app.scss > ...

10 @import "bootstrap-icons/font/bootstrap-icons.css";
11
12 .bg-ungu {
13     background-color: #7533f9 !important;
14 }
15 .link-diam {
16     color: gray;
17 }
18 main a:hover {
19     color: rgb(73, 73, 73);
20 }
21 footer a {
22     text-decoration: none;
23     color: black;
24 }
25 footer a:hover {
26     text-decoration: underline;
27     color: var(--bs-primary) !important;
28 }
29
```

4. Cek apakah halaman cloning bootstrap berhasil dibuka atau tidak. Apabila terdapat gambar yang tidak muncul maka perlu diubah sedikit code untuk akses gambarnya.



5. Ubah source pada img seperti berikut dengan menambahkan `{{ Vite::asset('resources/images/(nama gambar)') }}`

```
21 <a href="#" class="navbar-brand mb-0 h1">
22     
24 </a>
```

6. Maka tampilan akan menjadi seperti ini.

