

# Advanced Web Programming Routing, Controller, Dan View



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# 1 Routing

## 1.1 Basic Routing

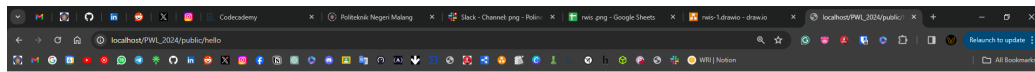
a. -

b. -

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
   ↳ application. These
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('/hello', function () {
21     return 'Hello World';
22 });
```

---

C. -



Hello World



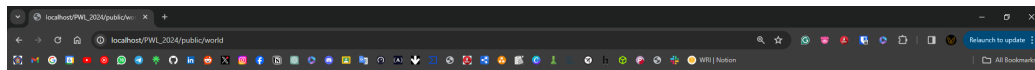
a 'Hello World' text appear on the page

---

d. -

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
   ↪ application. These
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('/hello', function () {
21     return 'Hello World';
22 });
23
24 Route::get('/world', function () {
25     return 'World';
26 });
```

e. -



World



only the word 'World' appear on the page

f. -



Welcome



```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
```

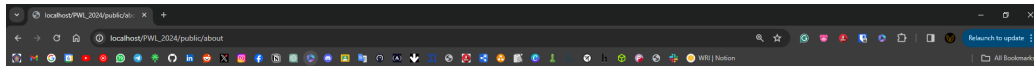
---

```

9  /
10 / Here is where you can register web routes for your
    ↪ application. These
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     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });

```

g. -



2241720145 - Muhammad Baihaqi Aulia Asyari

```

1  <?php
2
3  use Illuminate\Support\Facades\Route;

```

---

```
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
    ↪ application. These
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     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });
28
29 Route::get('/about', function () {
30     return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31 });
```

---

## 1.2 Route Parameters

a. -

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
   ↪ application. These
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     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });
28
29 Route::get('/about', function () {
30     return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31 });
32
33 Route::get('/user/{name}', function ($name) {
34     return 'My name is ' . $name;
35 });
```



b. -

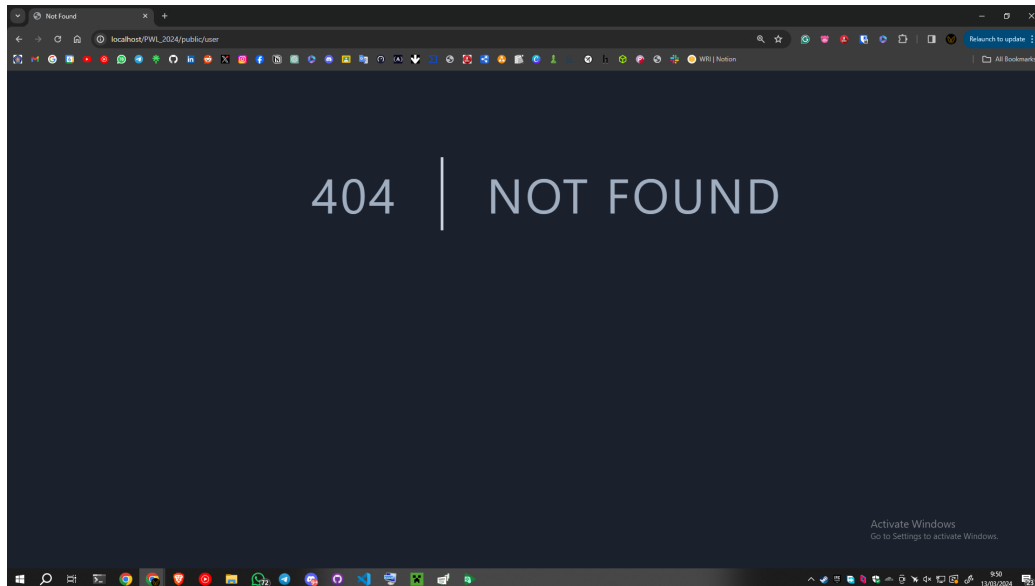


Nama saya yourname



The text has become 'My name is yourname'

c. -



a 404 — Not Found error occur

d. -

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
```

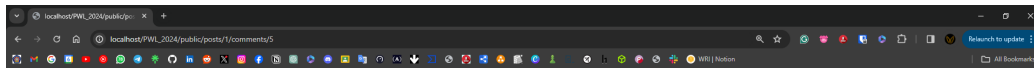
---

```

6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
    ↪ application. These
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     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });
28
29 Route::get('/about', function () {
30     return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31 });
32
33 Route::get('/user/{name}', function ($name) {
34     return 'My name is ' . $name;
35 });
36
37 Route::get('/posts/{post}/comments/{comment}', function ($postId,
    ↪ $commentId) {
38     return 'Pos ke-' . $postId . ' komentar ke-:' . $commentId;
39 });

```

e. -



Pos ke-1 komentar ke-: 5



The text becomes 'Pos ke-1 komentar ke-: 5'

f. -



Article Page with ID 2



```
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4
5 /*
6 /-----
7 / Web Routes
8 /-----
```

---

```

 9  /
10  / Here is where you can register web routes for your
   ↪ application. These
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      return 'Welcome';
19  });
20
21  Route::get('/hello', function () {
22      return 'Hello World';
23  });
24
25  Route::get('/world', function () {
26      return 'World';
27  });
28
29  Route::get('/about', function () {
30      return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31  });
32
33  Route::get('/user/{name}', function ($name) {
34      return 'My name is ' . $name;
35  });
36
37  Route::get('/posts/{post}/comments/{comment}', function ($postId,
   ↪ $commentId) {
38      return 'Pos ke-' . $postId . ' komentar ke-: ' . $commentId;
39  });
40
41  Route::get('/articles/{id}', function ($id) {
42      return 'Article Page with ID ' . $id;
43  });

```

---

## 1.3 Optional Parameters

a. -

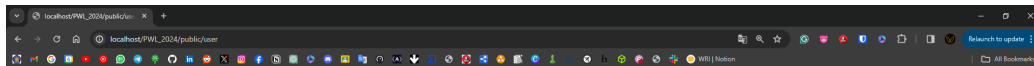
```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
   ↪ application. These
11 / routes are loaded by the RouteServiceProvider and all of them
   ↪ will
12 / be assigned to the "web" middleware group. Make something
   ↪ great!
13 /
14 */
15
16 Route::get('/', function () {
17     // return view('welcome');
18     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });
28
29 Route::get('/about', function () {
30     return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31 });
32
33 Route::get('/user/{name?}', function ($name=null) {
34     return 'My name is ' . $name;
35 });
36
```

```

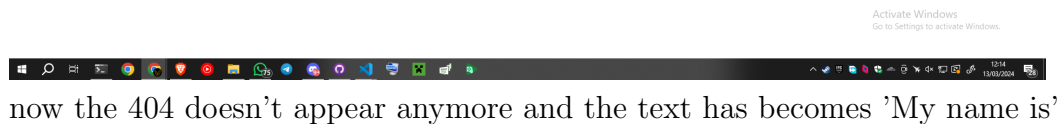
37 Route::get('/posts/{post}/comments/{comment}', function ($postId,
    ↳ $commentId) {
38     return 'Pos ke-' . $postId . ' komentar ke-: ' . $commentId;
39 });
40
41 Route::get('/articles/{id}', function ($id) {
42     return 'Article Page with ID ' . $id;
43 });

```

b. -



Nama saya



c. -



Nama saya yourname

---

the text can still display the parameter which makes the text 'My name is yourname'

d. -

```
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  /*
6  /-----
7  / Web Routes
8  /-----
9  /
10 / Here is where you can register web routes for your
    ↪ application. These
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     return 'Welcome';
19 });
20
21 Route::get('/hello', function () {
22     return 'Hello World';
23 });
24
25 Route::get('/world', function () {
26     return 'World';
27 });
28
29 Route::get('/about', function () {
30     return '2241720145 - Muhammad Baihaqi Aulia Asyari';
31 });
32
33 Route::get('/user/{name?}', function ($name='John') {
34     return 'Nama saya ' . $name;
35 });
```

---

```

36
37 Route::get('/posts/{post}/comments/{comment}', function ($postId,
    ↪ $commentId) {
38     return 'Pos ke-' . $postId . ' komentar ke-: ' . $commentId;
39 });
40
41 Route::get('/articles/{id}', function ($id) {
42     return 'Article Page with ID ' . $id;
43 });

```

- e. now the default name is John and somehow the language change from english to indonesian

## 2 Controller

### 2.1 Creating Controller

- a. -

```

1 PS C:\laragon\www\PWL_2024> php artisan make:controller
    ↪ WelcomeController
2
3 INFO Controller
    ↪ [C:\laragon\www\PWL_2024\app\Http\Controllers\WelcomeController.php]
    ↪ created successfully.

```

- b. -

```

1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class WelcomeController extends Controller
8 {
9     //
10 }
11

```



---

c. -

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class WelcomeController extends Controller
8  {
9      public function hello() {
10         return 'Hello World';
11     }
12 }
13
```

d. -

```
1 Route::get('/hello', [WelcomeController::class, 'hello']);
```

e. -



Hello World



it display 'Hello World' text from the controller function

---

f. -

```
1 Route::get('/', [PageController::class, 'index']);
2
3 Route::get('/about', [PageController::class, 'about']);
4
5 Route::get('/articles/{id}', [PageController::class,
  ↪  'articles']);
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
```

```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class PageController extends Controller
8 {
9     public function index() {
10         return 'Welcome';
11     }
12
13     public function about() {
14         return "2241720145 - Muhammad Baihaqi Aulia Asy'ari";
15     }
16
17     public function articles($id) {
18         return 'Article Page with ID ' . $id;
19     }
20 }
21
```

---

g. -

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class HomeController extends Controller
8  {
9      public function index() {
10         return 'Welcome';
11     }
12 }
13
1
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class AboutController extends Controller
8  {
9      public function about() {
10         return "2241720145 - Muhammad Baihaqi Aulia Asy'ari";
11     }
12 }
13
1
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class ArticleController extends Controller
8  {
9      public function articles($id) {
10         return 'Article Page with ID ' . $id;
11     }
12 }
13
```

---

```

1 Route::get('/', [HomeController::class, 'index']);
2
3 Route::get('/about', [AboutController::class, 'about']);
4
5 Route::get('/articles/{id}', [ArticleController::class,
  ↳ 'articles']);
6

```

## 2.2 Resource Controller

a. -

```

1 PS C:\laragon\www\PWL_2024> php artisan make:controller
  ↳ PhotoController --resource
2
3 INFO Controller
  ↳ [C:\laragon\www\PWL_2024\app\Http\Controllers\PhotoController.php]
  ↳ created successfully.

```

b. -

```

1 <?php
2 use App\Http\Controllers\PhotoController;
3
4 Route::resource('photos', PhotoController::class);

```

c. -

```

1 PS C:\laragon\www\PWL_2024> php artisan route:list
2
3 GET|HEAD      / .....
  ↳ .....
  ↳ .....
  ↳ HomeController@index
4 POST          _ignition/execute-solution .....
  ↳ ..... ignition.executeSolution >
  ↳ Spatie\LaravelIgnition > ExecuteSolutionController
5 GET|HEAD      _ignition/health-check .....
  ↳ ..... ignition.healthCheck
  ↳ > Spatie\LaravelIgnition > HealthCheckController
6 POST          _ignition/update-config .....
  ↳ ..... .. ignition.updateConfig >
  ↳ Spatie\LaravelIgnition > UpdateConfigController

```

---

```

7 GET|HEAD      about .....
  ↳ .....
  ↳ ..... AboutController@about
8 GET|HEAD      articles/{id} .....
  ↳ .....
  ↳ ..... ArticleController@articles
9 GET|HEAD      hello .....
  ↳ .....
  ↳ ..... WelcomeController@hello
10 GET|HEAD      photos .....
  ↳ .....
  ↳ ..... photos.index > PhotoController@index
11 POST         photos .....
  ↳ .....
  ↳ ..... photos.store > PhotoController@store
12 GET|HEAD      photos/create .....
  ↳ .....
  ↳ ..... photos.create > PhotoController@create
13 GET|HEAD      photos/{photo} .....
  ↳ .....
  ↳ ..... .. photos.show > PhotoController@show
14 PUT|PATCH    photos/{photo} .....
  ↳ .....
  ↳ ..... photos.update > PhotoController@update
15 DELETE        photos/{photo} .....
  ↳ .....
  ↳ ..... .. photos.destroy > PhotoController@destroy
16 GET|HEAD      photos/{photo}/edit .....
  ↳ .....
  ↳ ..... photos.edit > PhotoController@edit
17 GET|HEAD      posts/{post}/comments/{comment} .....
  ↳ .....
  ↳ .....
18 GET|HEAD      sanctum/csrf-cookie .....
  ↳ .....
  ↳ sanctum.csrf-cookie > Laravel\Sanctum >
  ↳ CsrfCookieController@show
19 GET|HEAD      user/{name?} .....
  ↳ .....
  ↳ .....

```

---

```
20 GET|HEAD          world .....
    ↳ .....
    ↳ .....
    ↳ ...
```

```
21 Showing [19] routes
```

d. -

```
1  <?php
2
3  use App\Http\Controllers\AboutController;
4  use App\Http\Controllers\ArticleController;
5  use App\Http\Controllers\HomeController;
6  use App\Http\Controllers\PageController;
7  use App\Http\Controllers\PhotoController;
8  use App\Http\Controllers>WelcomeController;
9  use Illuminate\Support\Facades\Route;
10
11  /*
12  /-----
13  / Web Routes
14  /-----
15  /
16  / Here is where you can register web routes for your
17  ↳ application. These
18  / routes are loaded by the RouteServiceProvider and all of them
19  ↳ will
20  / be assigned to the "web" middleware group. Make something
21  ↳ great!
22  /
23  */
24
25 Route::get('/', [HomeController::class, 'index']);
26
27 Route::get('/hello', [WelcomeController::class, 'hello']);
28
29 Route::get('/world', function () {
30     return 'World';
31 });
32
33 Route::get('/about', [AboutController::class, 'about']);
34
35 Route::get('/user/{name?}', function ($name='John') {
```

---

```
33     return 'Nama saya ' . $name;
34 });
35
36 Route::get('/posts/{post}/comments/{comment}', function ($postId,
    ↪ $commentId) {
37     return 'Pos ke-' . $postId . ' komentar ke-: ' . $commentId;
38 });
39
40 Route::get('/articles/{id}', [ArticleController::class,
    ↪ 'articles']);
41
42 Route::resource('photos', PhotoController::class)->only([
43     'index', 'show'
44 ]);
45
46 Route::resource('photos', PhotoController::class)->except([
47     'create', 'store', 'update', 'destroy'
48 ]);
```

---

## 3 View

### 3.1 Creating View

a. -

```
1  {{-- View pada resources/views/hello.blade.php --}}
2  <html>
3      <body>
4          <h1>Hello, {{ $name }}</h1>
5      </body>
6  </html>
```

b. -

```
1  Route::get('/greeting', function () {
2      return view('hello', ['name' => 'Baihaqi']);
3  });
```

c. -



# Hello, Baihaqi



---

## 3.2 View in Directory

a. -

b. -

c. -

```
1 Route::get('/greeting', function () {  
2     return view('blog.hello', ['name' => 'Baihaqi']);  
3 });
```

d. -



# Hello, Baihaqi



nothing has change from the previous change except in the background the view now routes to hello inside the blog directory

---

### 3.3 Display View from Controller

a. -

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class WelcomeController extends Controller
8  {
9      public function hello() {
10         return 'Hello World';
11     }
12
13     public function greeting() {
14         return view('blog.hello', ['name' => 'Baihaqi']);
15     }
16 }
```

b. -

```
1  Route::get('/greeting', [WelcomeController::class, 'greeting']);
```

c. -



# Hello, Baihaqi

---

### 3.4 Forward Data to View

a. -

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class WelcomeController extends Controller
8  {
9      public function hello() {
10         return 'Hello World';
11     }
12
13     public function greeting() {
14         return view('blog.hello')
15             ->with('name', 'Baihaqi')
16             ->with('occupation', 'Astronaut');
17     }
18 }
19
```

---

b. -

```
1 <html>
2   <body>
3     <h1>Hello, {{ $name }}</h1>
4     <h1>You are {{ $occupation }}</h1>
5   </body>
6 </html>
```

c. -



**Hello, Baihaqi**

**You are Astronaut**



now the page display the occupation set in the controller with the with function

[https://github.com/G4CENeiz/PWL\\_2024](https://github.com/G4CENeiz/PWL_2024)