Advanced Web Programming
Routing, Controller, Dan View

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Class

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1   Routing

1.1   Basic Routing

  a. -

  b. -

```php
<?php

use Illuminate\Support\Facades\Route;

/*
|--------------------------------------------------------------------------
| Web Routes
|--------------------------------------------------------------------------
|
| Here is where you can register web routes for your
     application. These
| routes are loaded by the RouteServiceProvider and all of them
     will
| be assigned to the "web" middleware group. Make something
     great!
|
*/

Route::get('/', function () {
    return view('welcome');
});

Route::get('/hello', function () {
    return 'Hello World';
});
```

  c. a 'Hello World' text appear on the page

d. -

```php
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. only the word 'World' appear on the page

f. -

```php
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. -

```php
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. -

```php
<?php

use Illuminate\Support\Facades\Route;

/*
|--------------------------------------------------------------------------
| Web Routes
|--------------------------------------------------------------------------
|
| Here is where you can register web routes for your
  application. These
| routes are loaded by the RouteServiceProvider and all of them
  will
| be assigned to the "web" middleware group. Make something
  great!
|
*/

Route::get('/', function () {
    // return view('welcome');
    return 'Welcome';
});

Route::get('/hello', function () {
    return 'Hello World';
});

Route::get('/world', function () {
    return 'World';
});

Route::get('/about', function () {
    return '2241720145 - Muhammad Baihaqi Aulia Asyari';
});

Route::get('/user/{name}', function ($name) {
    return 'My name is ' . $name;
});
```

b. The text has become 'My name is yourname'

c. a 404 — Not Found error occur

d. -

```php
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. The text becomes 'Pos ke-1 komentar ke-: 5'

f. -

```
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
```

```php
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. now the 404 doesn't appear anymore and the text has becomes 'My name is'

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

d. -

```php
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
```

```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      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.
```