Web Technologies Lecture#26

Lecture Outline



- 1. Creating Controllers
- 2. Loading view from controller
- 3. Data Passing: Controller to View
- 4. Blade syntaxes in views
- 5. Data Passing: Views to Controller
- 6. Advanced Routing

Creating Controllers



Topic sub heading..

- Instead of defining all the requests in route closure its better to group them in another place. Its more organized.
- Controllers can group related request handling logic into a single class.
- Controllers are stored in the app/Http/Controllers directory.
- Controller extends the base controller class included with Laravel.
- The base class provides a few convenience methods such as the middleware method, which may be used to attach middleware to controller actions.
- To create controller you can go to app/Http/Controllers and create a controller file with .php extension.
- You need to write a class of your own.
- Your controller class should extend the default controller class.
- Laravel also provides an artisan command that automatically creates a controller for you. (Open cmd in project and run the command)

```
php artisan make:controller your_controller_name
php artisan make:controller PagesController
```



Creating Controllers

```
C:\xampp\htdocs\demo_project_laravel>php artisan make:controller PagesController Controller created successfully,

C:\xampp\htdocs\demo_project_laravel>
```

Loading View from Controller



- Previously we were loading views from the route directly with Closure. Now we
 will bind controllers method with route Closure and load the view.
- · Write a function in Controller.

```
function Hello(){
     return view("hello");
}
```

- This function will return the view residing in resources/views/hello.blade.php
- Now to bind the function with route(go to web.php)

```
Route::method('route','ControllerName@ControllerFunction');[General Syntax]
Route::get('/hello','PagesController@hello');
```

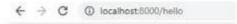
- · So the steps are
 - Create a controller in app/Http/Controllers/
 - Create a view in resources/views/ with .blade.php extension
 - Write a function in controller to load the view
 - Create a route in routes/web.php and bind the controller function



Loading Views from Controller

Controller

Views



Hello Advanced Web

Route

Data Passing: Controller to View



- As most of the cases controller functions will be responsible for database operations and calculations, we will be needing to pass data from controller to views to build dynamic web applications.
- Values can be passed with an associative array and the passed values can be retrieved with the key in blade files.

```
return view('filename', ['key' => 'Value', 'key' => 'Value']); //Passing value
<?php echo $key: ?> //retrieving in blade
```

- As an alternative to passing a complete array of data to the view helper function, you
 may use the with method to add individual pieces of data to the view.
 - return view('filename')->with('blade key', 'value'); //Passing value
- · You may display the contents of the variable like so

By default, Blade {{ }} statements are automatically sent through PHP's htmlspecialchars function



Passing Data to View [Associative Array]

```
PagesController.php X
app > Http > Controllers > PagesController.php
       namespace App\Http\Controllers:
       use Illuminate\Http\Request:
       class PagesController extends Controller
           function Hello()(
               Sname="3hon":
               Sprofession="Teacher";
               Saddress="Baneladesh":
               return view("hello",
                   "name" ->$name.
                   "erof"=>Sprofession.
                   "address"->$address
```

Passing the value

Using them in views



Hello Advanced Web

Output

Name: Jhon Profession: Teacher Address: Bangladesh



Passing Data to View [with function]

Passing the value

Shortcut to echo variable



Hello Advanced Web

Output

Name: Jhon Profession: Teacher Address: Bangladesh

Blade Syntaxes in Views



Topic sub heading..

```
Foreach loop

@foreach ($array as $element)

{{$element->property}}

@endforeach

While loop

@while (condition)

Statement

@endwhile

Including other views
```

- Including other views @include('view')
- Defining master layout and extending those will be discussed later.



Passing array to blade Syntax in blade

Passing array

Usage of foreach loop



Hello Advanced Web

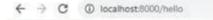
Rahim 34 karim 36



If else syntax in blade

Passing array

If else



Hello Advanced Web

Rahim is a voter karim is a voter Salam is under aged

Person

Passing object in blade and Usage

```
PagesController.php ×
ann > Http > Controllers > # PagesController.php
      namespace App\Http\Controllerst
      use Illuminate\Http\Request:
      class Person!
           var Saire:
           van Snamer
           function construct(Sname, Same){
               $this-page = $age:
               $this->name = $name;
      class PagesController extends Controller
           function Hello()(
               Sol = new Person("Karim", "34"):
               $p2 = new Person("Rahim", "36");
               $p3 = new Person("Salam","17");
               $persons=array($p1,$p2,$p3);
               return view("hello")
               ->with("persons", $personsD;
```



Hello Advanced Web

Rahim is a voter karim is a voter Salam is under aged

Data Passing: View to Controller



- In web user input data can be passed to server in 2 ways.
 - · Form data [Get or Post]
 - URL parameter [Get Request]
- Create a form in resources/views/registration.blade.php
- Create route in routes/web.php and function in PagesController.php
- Don't forget put {{csrf_field()}} inside form
- · Create a post route for Submitting the form and function

```
function register(Request $request){
    return "Submitted";
}
```

- The function should receive a Request object which holds all the submitted value.
 - The submitted values are the properties of \$request object.



Passing value from view to Controller

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```

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	Output

Advanced Routing



Argument

Through routing you can also pass dynamic values to server.

```
Route::get('/user/{id}', function($id)
{
    return "<b>The passed id is ".$id."</b>";
}):
```

The value inside () is dynamic and should be caught in function parameter to use.

```
\leftarrow \rightarrow \bigcirc \bigcirc localhost8000/user/110
```

The passed id is 110

You can also create like this

Parameter

Routing parameters

- should consist of alphabetic characters, and may not contain a character.
 Instead of using the character, use an underscore (_).
- Previously shown parameters are mandatory parameters you must pass those parameters otherwise it will get an error.

Optional Route parameters

```
Route::get('/user/{id?}', function($id = null)  
{
    return "<b>The passed id is ".$id."</b>";
});

The passed id is

The passed id is
```

· Optional Route parameters with default value

```
Route::get('/user/{id?}', function($id = 'Default') {

return "<b>The passed id is ".$id."</b>";
});

Access with name
```

· Routes can have names to access them from the codes.

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

Books



- PHP Advanced and Object-Oriented Programming, 3rd Edition; Larry Ullman; Peachpit, Press, 2013
- PHP Objects, Patterns and Practice, 5th Edition; Matt Zandstra; Apress, 2016
- Learning PHP, MySQL, JavaScript and CSS, 2nd Edition; Robin Nixon; O'Reilly, 2009
- Eloquent JavaScript: A Modern Introduction to Programming; Marijn Haverbeke; 2011
- Learning Node.js: A Hands On Guide to Building Web Applications in JavaScript; Marc Wandschneider; Addison-Wesley, 2013
- Beginning Node.js; Basarat Ali Syed; Apress, 2014

References



- 1. https://www.w3adda.com/laravel-tutorial/laravel-blade-template
- 2. https://laravel.com/docs/7.x/session
- 3. https://laravel.com/docs/7.x/controllers
- 4. https://laravel.com/docs/7.x/views
- 5. https://laravel.com/docs/7.x/blade



Thank You!