

Understanding over the middleware structure

```
CheckRequestDetails.php
    <?php
    namespace App\Http\Middleware;
    use Closure;
    use Illuminate\Http\Request;
    use Symfony\Component\HttpFoundation\Response;
    class CheckRequestDetails
         * Handle an incoming request.
10
         * @param \Closure(\Illuminate\Http\Request): (\Symfony\Component\HttpFoundation\Response) $next
11
12
        public function handle(Request $request, Closure $next): Response
13
14
            return $next($request);
15
16
17
18
```



Check Request Header Inside Middleware

else{

18

19

20

21

22

```
web.php
   use App\Http\Controllers\DemoController;
   use App\Http\Middleware\CheckRequestDetails;
   use Illuminate\Support\Facades\Route;
   Route::post('/DemoAction', [DemoController::class, 'DemoAction'])->middleware([CheckRequestDetails::class]);
       CheckRequestDetails.php
         public function handle(Request $request, Closure $next): Response
13
14
             $key= $request->header('key');
15
             if($key=="123"){
16
                  return $next($request);
17
```

return response()->json("unauthorized",401);



Redirect Request From Middleware

```
checkRequestDetails.php

public function handle(Request $request, Closure $next): Response

function handle(Request $request, Closure $requ
```



Apply For Specific Route

```
Route::get('/DemoAction', [DemoController::class, 'DemoAction'])->middleware([CheckRequestDetails::class]);
```

Apply For Route Group

```
Route::middleware(['CheckRequestDetails'])->group(function () {
Route::get('/DemoAction1', [DemoController::class, 'DemoAction']);
Route::get('/DemoAction2', [DemoController::class, 'DemoAction']);
Route::get('/DemoAction3', [DemoController::class, 'DemoAction']);
});
Route::get('/DemoAction4', [DemoController::class, 'DemoAction']);
```



Apply For Whole Application

```
Kernel.php
protected $middlewareGroups = [
31
             'web' => [
32
                 \App\Http\Middleware\CheckRequestDetails::class,
33
                 \App\Http\Middleware\EncryptCookies::class,
34
                 \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
35
                 \Illuminate\Session\Middleware\StartSession::class,
36
                 \Illuminate\View\Middleware\ShareErrorsFromSession::class,
37
                // \App\Http\Middleware\VerifyCsrfToken::class,
38
                 \Illuminate\Routing\Middleware\SubstituteBindings::class,
39
             ],
40
41
             'ap<u>i' =></u> [
42
                 \App\Http\Middleware\CheckRequestDetails::class,
43
                 // \Laravel\Sanctum\Http\Middleware\EnsureFrontendRequestsAreStateful::class,
44
                 \Illuminate\Routing\Middleware\ThrottleRequests::class.':api',
45
                 \Illuminate\Routing\Middleware\SubstituteBindings::class,
46
             ],
47
        ];
48
```



Manipulate (ADD) Request Details Inside Middleware

```
$request->headers->set('key3', 'variable3');
```

Manipulate <u>(Remove)</u> Request Details Inside Middleware

```
$request->request->remove('name');
```

Manipulate <u>(Replace)</u> Request Details Inside Middleware

```
$request->headers->replace(['name'=>'XXX','age'=>100]);
```



#### REQUEST RATE LIMITING

Inside Kernel file middlewaregroup

```
Kernel.php
         protected $middlewareGroups = [
31
             'web' => [
32
                 'throttle:60,1',
33
                 \App\Http\Middleware\EncryptCookies::class,
34
                 \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
35
                 \Illuminate\Session\Middleware\StartSession::class,
36
                 \Illuminate\View\Middleware\ShareErrorsFromSession::class,
37
                // \App\Http\Middleware\VerifyCsrfToken::class,
38
                 \Illuminate\Routing\Middleware\SubstituteBindings::class,
39
40
             ],
             'api' => [
41
                 'throttle:60,1',
42
                 // \Laravel\Sanctum\Http\Middleware\EnsureFrontendRequestsAreStateful::class,
43
                 \Illuminate\Routing\Middleware\ThrottleRequests::class.':api',
44
                 \Illuminate\Routing\Middleware\SubstituteBindings::class,
45
             ],
46
        ];
47
```



## REQUEST RATE LIMITING

For Specific Routing End Point



### BASIC CONTROLLERS

- To quickly generate a new controller, you may run the make:controller Artisan command.
- A controller may have any number of public methods which will respond to incoming HTTP requests.

```
DemoController.php

function DemoAction():string

function DemoAction():string

return "Basic Controller";
}
```

```
• • • web.php

17 Route::get('/DemoAction', [DemoController::class,'DemoAction']);
```



#### SINGLE ACTION CONTROLLERS

- Dedicate an entire controller class for single action.
- To accomplish this, you may define a single \_\_invoke method within the controller
- php artisan make:controller SingleActionControllers --invokable

```
Description
SingleActionControllers.php

public function __invoke(Request $request)

{
    return "I am Single Action Controllers";
}
```

```
Route::get( uri: "/SingleAction", action: SingleActionControllers::class);
```



#### RESOURCE CONTROLLERS

- Laravel resource routing assigns the typical create, read, update, and delete ("CRUD")
- php artisan make:controller PhotoController --resource

```
PhotoController.php
        public function index()
12
13
14
            return "index";
15
        public function create()
17
18
            return "create";
19
        public function store(Request $request)
21
22
            return "store";
23
        public function show(string $id)
24
25
            return "show";
27
        public function edit(string $id)
29
            return "edit";
31
        public function update(Request $request, string $id)
32
34
            return "update";
        public function destroy(string $id)
36
            return "destroy";
38
```

```
web.php
    Route::resource('photos', PhotoController::class);
11
    GET()
                  INDEX
                           http://127.0.0.1:8000/photos
    GET()
                  CREATE
                           http://127.0.0.1:8000/photos/create
    POST()
                  STORE
                           http://127.0.0.1:8000/photos
    GET()
                  SHOW
                           http://127.0.0.1:8000//photos/{photo}
    GET()
                  EDIT
                           http://127.0.0.1:8000/photos/{photo}/edit
    PUT/PATCH()
                  UPDATE
                           http://127.0.0.1:8000/photos/{photo}
    DELETE()
                           http://127.0.0.1:8000/photos/{photo}
                  DESTROY
18
19
```



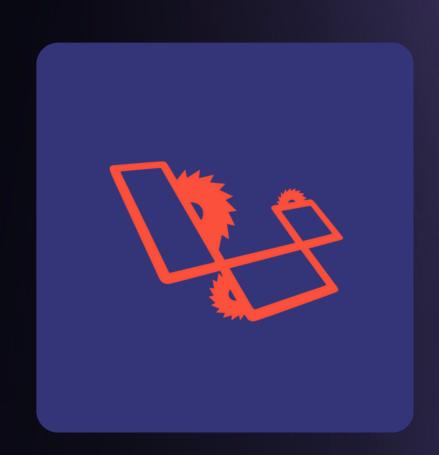
### CONTROLLER MIDDLEWARE

Using the middleware method within your controller's constructor, you can assign middleware to the controller's actions



# Laravel Blade

- Laravel Blade is a templating engine that comes built-in with the Laravel PHP framework. It allows developers to write clean and structured HTML templates with dynamic content and reusable components.
- Blade templates use a combination of plain HTML and special Blade syntax, such as double curly braces {{ }} for variable output and at signs @ for control structures like loops and conditionals.
- Blade templates can be extended to create a base template that can be reused across multiple pages with different content.
- Blade also provides several built-in directives that simplify common tasks like including subviews, injecting content into sections, and rendering JSON data.





## PASS AND DISPLAYING DATA

- Display data that is passed to your Blade views by wrapping the variable in curly braces
- Blade's {{ }} echo statements are automatically sent through PHP's htmlspecialchars function to prevent XSS attacks.

```
DemoController.php

function DemoAction(Request $request)

{
     $sum=$request->num1+$request->num2;
     return view('Home', ['sum' => $sum]);
}
```



## BLADE IF STATEMENT

You may construct if statements using the @if, @elseif, @else, and @endif directives.

```
Home.blade.php
    <body>
    @if ($sum === 1)
         <h6>I have 1 record!</h6>
10
    @elseif ($sum === 2)
11
         <h6>I have 2 record!</h6>
12
    @else
13
         <h6>I have many record!</h6>
14
    @endif
15
    </body>
16
```



## BLADE SWITCH CASE

Switch statements can be constructed using the @switch, @case, @break, @default and @endswitch directives

```
Home.blade.php
    <body>
8
    @switch($sum)
9
         @case(1)
10
             <h3>First case...</h3>
11
12
             @break
         @case(2)
13
             <h3>Second case...</h3>
14
15
             @break
         @default
16
             Default case...
17
    @endswitch
18
    </body>
19
```



# BLADE FOR LOOP



## BLADE FOREACH LOOP



# INCLUDING ASSET

```
Home.blade.php
    <!DOCTYPE html>
1
    <html lang="en">
        <head>
3
             <meta charset="utf-8">
             <meta name="viewport" content="width=device-width, initial-scale=1">
             <title>Laravel</title>
6
             <link href="{{asset('/css/bootstrap.min.css')}}" rel="stylesheet">
        </head>
8
    <body>
9
    <img src="{{asset('/img.jpg')}}"/>
    </body>
11
    </html>
```



# INCLUDING SUBVIEWS

Blade's @include directive allows you to include a Blade view from within another view. All variables that are available to the parent view will be made available to the included view:

```
Home.blade.php
     <div>
10
         @include('shared.errors')
11
12
13
         <form>
             <!-- Form Contents -->
14
         </form>
15
     </div>
16
```



## MASTER LAYOUT CONCEPT

```
Home.blade.php
    @extends('Layout')
    @section('content')
4
        @include('Component.HomeBanner')
5
        @include('Component.HomeService')
6
        @include('Component.HomeCourse')
        @include('Component.HomeProjects')
8
        @include('Component.HomeContact')
        @include('Component.HomeReview')
10
11
    @endsection
12
```