

# MIDDLEWARE

### REQUEST MIDDLEWARE

Understanding over the middleware structure

**Command:** php artisan make:middleware MiddlewareName

#### What is middleware?

Ans: Middleware হচ্ছে request এবং response এর মাঝে যদি কোন কোড কাজ করে বা শর্ত থাকে ঐ কাজকে আমরা Middleware বলে থাকি।

Middleware ও এক ধরনের controller

request -> middleware -> controller -> reasons

karnel.php file

karnel.php কোন কিছু (middleware) add করা মানে তা globally বা group আকারে defined করে দেওয়া

```
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

\$key= \$request->header('key');

return \$next(\$request);

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

if(\$key=="123"){

else{

14

15

16

17

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
```



Redirect Request From Middleware

```
checkRequestDetails.php

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

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

function handle(Request $request): Response

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

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



Apply For Specific Route

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

```
web.php

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']);
```

```
Mernel.php

Kernel.php

protected $middlewareAliases = [

CheckRequestDetails' => \App\Http\Middleware\CheckRequestDetails::class,
```



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
             'api' => [
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 (Remove) Request Details Inside Middleware

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

Manipulate (Replace) Request Details Inside Middleware

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



# REQUEST RATE LIMITING



Inside Kernel file middleware group

#### Request Rate limiting middleware (throttle)

request rate limiting মানে রাউট point এর বা রাউট এর request গুলুর লিমিটেশন করে দেওয়া। যার ফলে ইউসারের অহেতুক request আটকানো যায়।

```
Kernel.php
        protected $middlewareGroups = [
31
             'web' => [
32
                 'throttle:60,1',
33
                 \App\Http\Middleware\EncryptCookies::class,
34
                 \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
35
36
                \Illuminate\Session\Middleware\StartSession::class,
                 \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