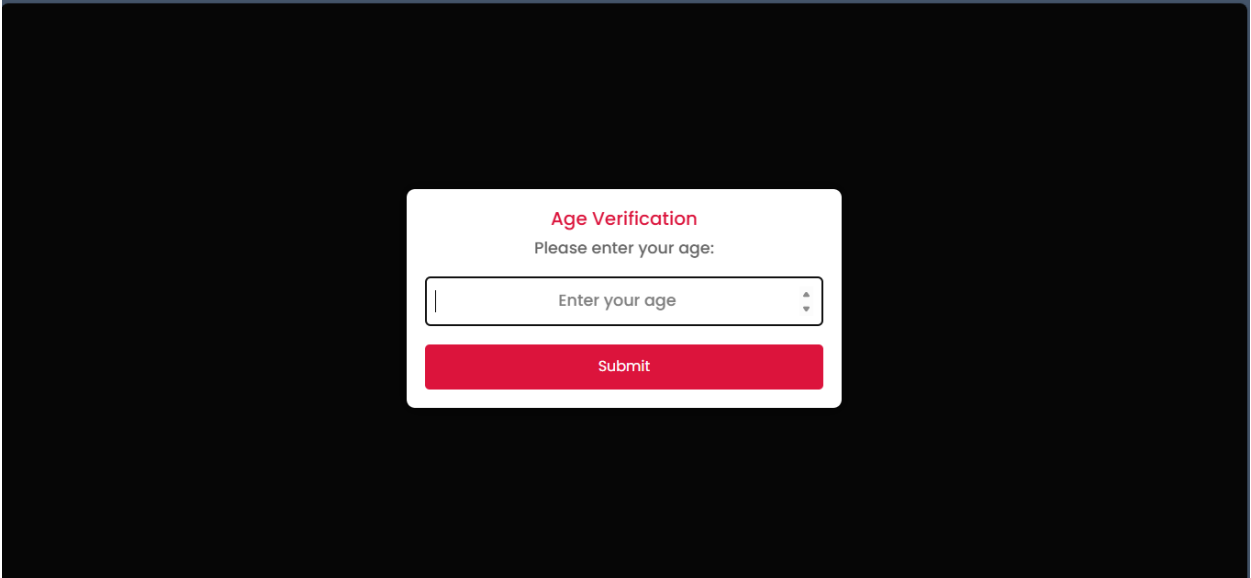


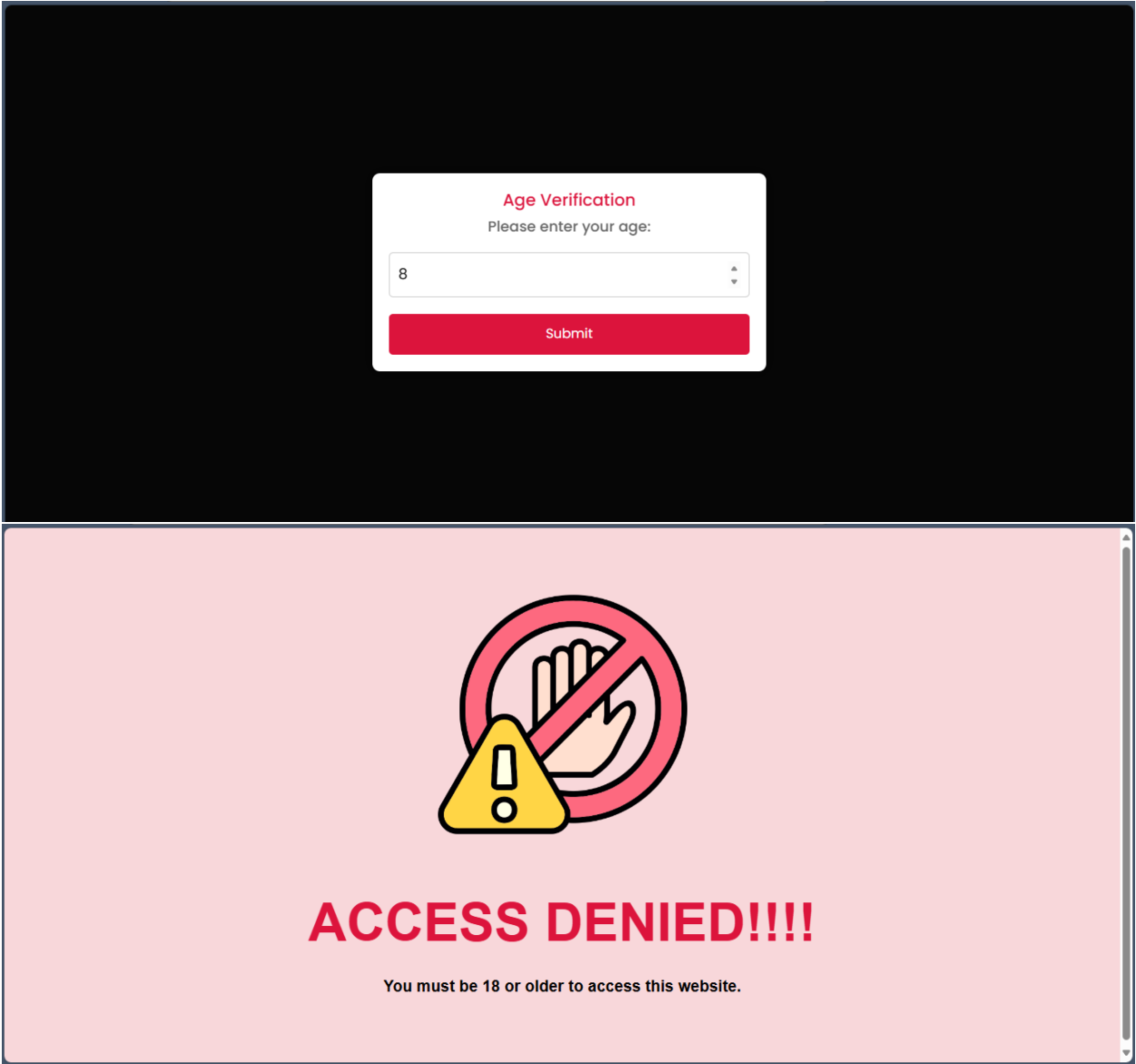
Individual Documentation Middleware

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Rendered pages



If below 18 yrs old



If 18-20 years old

Age Verification

Please enter your age:

18

Submit

Enter your Name

username

Enter



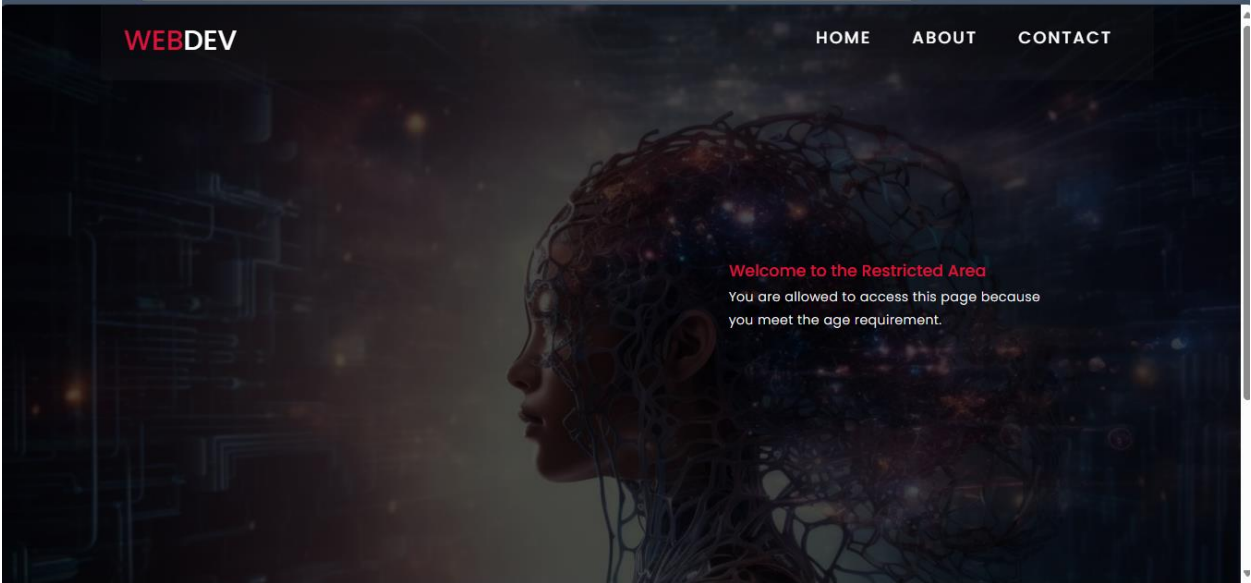
If 21 years old and above

Age Verification

Please enter your age:

27

Submit



Middleware

app/Http/Middleware/CheckAge.php

```
app > Http > Middleware > CheckAge.php > CheckAge > handle
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Closure;
6  use Illuminate\Http\Request;
7  use Symfony\Component\HttpFoundation\Response;
8
9  class CheckAge
10 {
11     /**
12      * Handle an incoming request.
13      *
14      * @param  \Closure(\Illuminate\Http\Request): (\Symfony\Component\HttpFoundation\Response)  $next
15      */
16     public function handle(Request $request, Closure $next, $minAge = 18) // Default to 18
17     {
18
19         \Log::info('CheckAge middleware executed.');// Log to verify middleware execution
20         $age = $request->query('age');// Get the age from the query string
21
22         // Check if the user is below the minimum age
23         if (isset($age)) {
24             if ($age < $minAge) {
25                 return redirect('/access-denied');// Redirect to access denied page
26             } elseif ($age >= 21) {
27                 return redirect('/restricted-area');// Redirect to restricted area if age is 21 or above
28             } elseif ($age == 18) {
29                 return redirect('/welcome');// Redirect to home page if age is exactly 18
30             }
31         }
32     }
33 }
```

This CheckAge middleware checks the user's age from the query string, logs that the middleware was executed, and then either:

- Redirects users under 18 to an "Access Denied" page.
- Redirects users 21 or older to a "Restricted Area."
- Redirects users exactly 18 years old to a "Welcome" page.

If no redirection happens, the request continues processing as usual.

app/Http/Middleware/LogRequest.php

```
app > Http > Middleware > LogRequests.php > ...
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Closure;
6  use Illuminate\Http\Request;
7  use Illuminate\Support\Facades\Log;
8  use Symfony\Component\HttpFoundation\Response;
9
10 class LogRequests
11 {
12     /**
13      * Handle an incoming request.
14      *
15      * @param  \Closure(\Illuminate\Http\Request): (\Symfony\Component\HttpFoundation\Response)  $next
16      */
17     public function handle(Request $request, Closure $next): Response
18     {
19         Log::info('LogRequests middleware executed'); // Log a simple message
20         $logData = '[' . now() . ']' . ' ' . $request->method() . ' ' . $request->fullUrl();
21         Log::channel('custom')->info($logData);
22
23         return $next($request);
24     }
25 }
26
```

This LogRequests middleware is designed to:

- Log a simple message when the middleware is executed.
- Log a more detailed message containing the request method and full URL, along with a timestamp, to a custom log channel.
- Allow the request to continue being processed by the next middleware or controller in the request pipeline.

This is useful for tracking requests, auditing, or debugging purposes.

Config/Logging.php

```
config > logging.php
8  return [
53      'channels' => [
126          'emergency' => [
128              ],
129
130          // Add this part for the custom log channel
131          'custom' => [
132              'driver' => 'single',
133              'path' => storage_path('logs/log.txt'),
134              'level' => 'info',
135          ],
136
137      ],
138
139  ];
140
```

We use this setup for a dedicated log file (log.txt) where we can send specific logs, rather than using the default Laravel log file. This helps me separate certain logs (like request logs, in our case) from the rest of the application's logging.

Sample output of log.txt

```
storage > logs > log.txt
1 [2024-10-05 13:12:25] local.INFO: [2024-10-05 13:12:25] GET http://127.0.0.1:8000
2 [2024-10-05 13:12:29] local.INFO: [2024-10-05 13:12:29] GET http://127.0.0.1:8000/access-denied
3 [2024-10-05 13:12:34] local.INFO: [2024-10-05 13:12:34] GET http://127.0.0.1:8000/restricted-area
4 [2024-10-05 13:12:37] local.INFO: [2024-10-05 13:12:37] GET http://127.0.0.1:8000/welcome
5 [2024-10-05 13:12:38] local.INFO: [2024-10-05 13:12:38] GET http://127.0.0.1:8000/about
6 [2024-10-05 13:12:40] local.INFO: [2024-10-05 13:12:40] GET http://127.0.0.1:8000/contact
7 [2024-10-05 13:12:42] local.INFO: [2024-10-05 13:12:42] GET http://127.0.0.1:8000/about
8 [2024-10-05 13:12:43] local.INFO: [2024-10-05 13:12:43] GET http://127.0.0.1:8000/welcome
9 [2024-10-05 13:12:45] local.INFO: [2024-10-05 13:12:45] GET http://127.0.0.1:8000/about
10 [2024-10-05 13:12:50] local.INFO: [2024-10-05 13:12:50] GET http://127.0.0.1:8000
11 [2024-10-05 13:14:51] local.INFO: [2024-10-05 13:14:51] GET http://127.0.0.1:8000
12 [2024-10-05 13:14:54] local.INFO: [2024-10-05 13:14:54] GET http://127.0.0.1:8000/restricted-area
13 [2024-10-05 13:14:55] local.INFO: [2024-10-05 13:14:55] GET http://127.0.0.1:8000/welcome
14 [2024-10-05 13:14:58] local.INFO: [2024-10-05 13:14:58] GET http://127.0.0.1:8000/about
15 [2024-10-05 13:14:59] local.INFO: [2024-10-05 13:14:59] GET http://127.0.0.1:8000/about
16 [2024-10-05 13:15:03] local.INFO: [2024-10-05 13:15:03] GET http://127.0.0.1:8000/contact
17 [2024-10-07 08:17:23] local.INFO: [2024-10-07 08:17:23] GET http://127.0.0.1:8000
18 [2024-10-07 08:19:23] local.INFO: [2024-10-07 08:19:23] GET http://127.0.0.1:8000
19 [2024-10-07 08:19:25] local.INFO: [2024-10-07 08:19:25] GET http://127.0.0.1:8000
20 [2024-10-07 08:19:26] local.INFO: [2024-10-07 08:19:26] GET http://127.0.0.1:8000
```

app/Http/Kernel.php

```
app > Http > Kernel.php > Kernel
1 <?php
2
3 namespace App\Http;
4
5 use Illuminate\Foundation\Http\Kernel as HttpKernel;
6
7 class Kernel extends HttpKernel
8 {
9     protected $middleware = [
10         // Global HTTP middleware
11         \App\Http\Middleware\LogRequests::class, // Register LogRequests as global middleware
12     ];
13
14     protected $middlewareGroups = [
15         'web' => [
16             \App\Http\Middleware\EncryptCookies::class,
17             \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
18             \Illuminate\Session\Middleware\StartSession::class,
19             \App\Http\Middleware\CheckAge::class, // Add CheckAge to web middleware group
20         ],
21
22         'api' => [
23             'throttle:api',
24             \Illuminate\Routing\Middleware\SubstituteBindings::class,
25         ],
26     ];
27
28     protected $routeMiddleware = [
29         'checkAge' => \App\Http\Middleware\CheckAge::class, // Register CheckAge middleware
30     ];
31 }
```

- **Global Middleware:** Automatically applies to every request made to the application.
- **Middleware Groups:** Organizes middleware for specific types of requests (web, api), allowing different sets of middleware to be applied depending on the type of request.
- **Route-Specific Middleware:** Allows you to apply middleware to individual routes, providing flexibility in request handling.

In this example, LogRequests is applied globally, CheckAge is applied to web routes via the 'web' group, and CheckAge can also be applied to specific routes via the 'checkAge' key in the route middleware.