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## Steps to enable CORS on a Lumen API Backend

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CORS simply refers to Cross Origin Resource Sharing. CORS is a technique that uses HTTP requests to let a browser on one origin(a domain) gain access to a resources on a different origin. By default, a technique known as the Same-Origin policy is used to prevent your javascript code from making ajax requests to a different domain. This is a very good security measure but a lot of times, gets in the way of gaining legitimate access to needed resources.

### Step 1: Set up a CORS middleware.

In your `app\Http\Middleware` folder, create a new php class and save the filename as `CorsMiddleware.php` . Of course, you can call it anything you want. Just don't forget it 😊 . In your new class, add the following lines of code:



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```

<?php
namespace App\Http\Middleware;

use Closure;

class CorsMiddleware
{
    /**
     * Handle an incoming request.
     *
     * @param \Illuminate\Http\Request $request
     * @param \Closure $next
     * @return mixed
     */
    public function handle($request, Closure $next)
    {
        $headers = [
            'Access-Control-Allow-Origin'      => '*',
            'Access-Control-Allow-Methods'    => 'POST, GET, OPTIONS, PUT, DEL',
            'Access-Control-Allow-Credentials' => 'true',
            'Access-Control-Max-Age'          => '86400',
            'Access-Control-Allow-Headers'     => 'Content-Type, Authorization',
        ];

        if ($request->isMethod('OPTIONS'))
        {
            return response()->json('{"method":"OPTIONS"}', 200, $headers);
        }

        $response = $next($request);
        foreach($headers as $key => $value)
        {
            $response->header($key, $value);
        }

        return $response;
    }
}

```



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requests to your API. You'll notice that we are checking for the OPTIONS request explicitly and returning access control headers alongside a status code of **200** . Sometimes, your user-agent (browser) sends an OPTIONS request first as a form of verification request. However, lumen, somehow, does not recognize the OPTIONS request method and rejects it with a **508** . Hence the need to specifically check this request and grant it access.

## Step 2: Register your new middleware

Head over to your **bootstrap/app.php** file and register your new middleware with the following lines:

```
$app->middleware([  
    App\Http\Middleware\CorsMiddleware::class  
]);
```

Place this in the Middleware Registration Section. Remember to change the **CorsMiddleware** part to reflect the name of your middleware class if you named it differently earlier.

That's about it, you can now send those axios requests!

Don't forget to drop your comments and reactions. Thank you.

Happy Coding - DevMelas

Lumen Cors Laravel Middleware

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## Chiemela Chinedum

Web Developer

I'm just me. Simple, easy going and I love learning. Guess I've got to be learning throughout my stay down here :-)) I am currently a web developer at Olotusquare, a tech hub in Port Harcourt, Rivers State, PortHarcourt that engag...

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**José Silva** a month ago



Good, I use this tutorial for Laravel and works fine. Thanks!

 Reply



**Wouerner Brandão** 5 months ago



Thnks!!!

 Reply

**William Hammock** 5 months ago



Fantastic, thank you for this post, works perfectly.

 Reply

**William Hammock** 5 months ago



'Access-Control-Allow-Headers' => '\*'



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I still had some issues with Axios ... so swapped out the Access-Control-Allow-Headers and that worked.

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Erik Eidt

## Working with Lengths and Positions

In programming we often have a notion of both a relative "length" of something, and also its absolute "position" in some environment. When we compare two items, they should either both be relative, or, both be absolute.

Here are some examples of the two:

Domain	Relative	Absolute
time	duration	date
pointers	index	pointer
arrays	length	position

*(to be sure pointers and arrays are closely related)*

A relative item can be converted to an absolute by addition, and it requires an absolute given as a baseline:

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