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# What is CORS?

Cross-Origin Resource Sharing (CORS) manages the cross-origin requests. Unlike same-origin policy, CORS allows making a request from one origin to another. CORS allows the servers to specify who can access the resource on the server from outside.

The origin is made up of three parts - the protocol, host, and the port number.

This is in continuation of my last article (create RESTful API using ASP.NET Core with Entity Framework Core) so I highly recommend you to go through my previous article for the basic set up of an ASP.NET Core application.

### Cross Domain call

Before enabling the CORS, let's see how the cross-domain call is restricted. Let's create an ASP.NET Core web application.

### Step1

# Enabling CORS In ASP.NET Core API Application

### Step 2

Select web application (Model-View-Controller) template, as shown in the below figure,

Enabling CORS In ASP.NET Core API Application

### Step 3

Click OK. This will create a web application with a default template.

### Step 4

Go to the Index.cshtml page and add the below code and run the application.

From the above code, you can notice the AJAX call I made to access the API which is not from the same origin. This is from the ASP.NET Core API application which is created in my last article.

Testing the API in the Postman tool.

In the browser console, you will get an error message as shown in the below figure.

Enabling CORS In ASP.NET Core API Application

Now it's time to Enable CORS in our API application so that we can access it from a different origin.

# **Enable CORS in ASP.NET Core API Application**

## **Enabling CORS Globally**

Open the ASP.NET Core API application which we created in my last article.

Go to Startup.cs file and add the below code in Configure method, which will inject CORS into a container.

```
01. app.UseCors(options => options.AllowAnyOrigin());
```

Add the below code in ConfigureServices method,

The above code tells that the API's can be accessed from any origin globally.

Run the application,

Enabling CORS In ASP.NET Core API Application

From the above figure you can notice we got a response from the API successfully and the response it printed in browser console was as expected.

#### Endoning for origin

Go to Startup.cs file and add the below code in Configure method,

```
01. app.UseCors(options=>options.WithOrigins("https://localhost:44342"));
```

Add the below code in ConfigureServices method

Go to controller and decorate the action with Enable CORS attribute, as given below,

```
// GET: api/Libraries/GetAllAuthor
01.
02.
           [HttpGet]
           [Route("GetAllAuthor")]
03.
           [EnableCors("AllowOrigin")]
04.
05.
          public IActionResult GetAllAuthor()
06.
              IEnumerable<Author> authors = libraryRepository.GetAllAuthor();
07.
08.
              return Ok(authors);
09.
```

Now this API can be accessed only from the origin https://localhost:44342.

We can also define EnableCors at the controller level so that all the actions under this controller can be accessed from the origin https://localhost:44342

```
01. [Route("api/Libraries")]
02. [ApiController]
03. [EnableCors("AllowOrigin")]
```

```
private readonly ILibraryRepository<Author> libraryRepository;
06.
07.
08.
09.
             public LibrariesController(ILibraryRepository<Author> libraryRepository)
10.
11.
                  libraryRepository = libraryRepository;
12.
13.
14.
             // GET: api/Libraries/GetAllAuthor
15.
16.
              [HttpGet]
              [Route("GetAllAuthor")]
17.
18.
19.
             public IActionResult GetAllAuthor()
20.
                  IEnumerable<Author> authors = libraryRepository.GetAllAuthor();
21.
22.
                  return Ok(authors);
23.
24.
25.
```

# **Conclusion**

We saw how to enable the CORS in ASP.NET Core API applications, will see more about ASP.NET Core in my future articles. I hope you have enjoyed this article. Your valuable feedback, questions, or comments about this article are always welcomed.

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# Gowtham K 70P 100











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I have done exactly as described above using my WebAPI2 application using .NET Core 3.1 and I still get this error: Cross-Origin Request Blocked: The Same Origin Policy disallows reading the remote resource at http://mypc/myapi/weatherforecast. (Reason: CORS header 'Access-Control-Allow-Origin' missing). I am running my Angular 8 app using http://localhost:4200 and have specified AllowAnyOrigin in the ConfigureServices method of my Startup.cs as well as app. UseCors("mypoilcy") in the Configure method. Any thoughts on what else to check?

### **Greg Knierim**

• 1888 • 4 • 0









Hi, did you find a solution? I?m having same issue :(

Francisco Castro

• 1879 • 13 • 0







Thanks for supporting.

Hao Hoang

• 1889 • 3 • 0

(Sep 28, 2019)



♠ 0 ≪ Reply



Uds son de lo mejor

Andres Leonardo Cano Muñoz

• 1879 • 13 • 0

U Jul 28, 2019

















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