## Steps to Do an External API Call from Angular

## 1. In the service/program typescript file:

```
a. import { HttpClient } from '@angular/common/http';
  import { HttpHeaders } from '@angular/common/http';
b. // Set up a string to hold the root URL/endpoint for the server
   private theServerURL : string = "your-server-endpoint/root"
c. // Have the constructor receive a Dependency Injected HttpClient Object
   constructor(private theServer:HttpClient) {}
d. // Make the Http Call from an async method that returns a Promise<any>
      and use the server URL variable defined above
  // BE SURE YOU ADD WHATEVER IS REQUIRED TO THE BASE SERVER URL YOU DEFINED
   async getMoviesList() : Promise<any[]> { }
e. // Make the call to the external API and store in our local data source (array)
  // lastvalueFrom() converts the Observable object returned from the http get() to a promise
  // To do an HTTP GET:
   const result : any[] =
         await lastValueFrom(this.theServer.get<any[]>(this.theServerURL))
  // To do an HTTP DELETE
  const result : any[] =
         await lastValueFrom(this.theServer.delete(this.theServerURL))
  // To do an HTTP POST/PUT:
    // Use new HttpHeaders to create a JSON object with the attributes you want to send
    // use http.post(API-URL, data-to-send, {header-object})
   lastValueFrom(this.theServer.post(this.theServerURL+"/create". newMovie
                                      ,{headers}));
   // use http.put(API-URL, data-to-send, {header-object})
   lastValueFrom(this.theServer.put(this.theServerURL+"/update", newMovie
                                      ,{headers}));
```

Consider defining any data used with the API call as any (avoid possible errors)

## Steps to Do an External API Call from Angular

2. In the app.config.ts file:

```
a. import { provideHttpClient } from '@angular/common/http';
b. // Add "provideHttpClient" as a provider providers: [provideRouter(routes), provideHttpClient()]
3. In the component that calls the service to get the data from the API:
```

a. Import the service/code that does the API call:

```
import { MoviesService } from '../movies.service-api';
```

b. // Add an async **ngOnInit()** method to call the service methods that calls API:

```
async ngOnInit()
{
  this.moviesList = await this.movieService.getMoviesList();
}
```

c. // Add implements Onlnit to export:

```
export class MovieListComponent implements OnInit {
```

## The following steps are required if you are writing the Server side code as well to avoid CORS errors:

Add the following to the **program.cs**:

// With all the other builder.Service statements
 // Be sure you have the correct server URL for the WithOrigins parameter

2. // With all the other app.xxxxxx statements

```
app.UseCors();
```