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Reading XML File In Angular 8



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Introduction

Here, we will learn about reading XML file in Angular 8. Reading XML files is very important in certain circumstances, especially when the server returns the data in XML format.

We will use a static XML file stored in the local system in the assets folder of our project.

Prerequisites

- Basic knowledge of Angular 7
- Visual Studio Code installed on the system
- Angular CLI installed on the system
- NodeJS must be installed

XML File

```
01. <?xml version="1.0" encoding="UTF-8"?>
02. <Employee>
03.   <emp>
04.     <id>1</id>
05.     <name>Faisal</name>
06.     <gender>Male</gender>
07.     <mobile>514545</mobile>
08.   </emp>
09.   <emp>
10.     <id>2</id>
11.     <name>Bhavdip</name>
12.     <gender>Male</gender>
13.     <mobile>5431643</mobile>
14.   </emp>
```

```

17.      <name>Irsna</name>
18.      <gender>Male</gender>
19.      <mobile>43265436</mobile>
20.    </emp>
21.    <emp>
22.      <id>4</id>
23.      <name>Keyur</name>
24.      <gender>Male</gender>
25.      <mobile>5435431</mobile>
26.    </emp>
27.    <emp>
28.      <id>5</id>
29.      <name>Tabish</name>
30.      <gender>Male</gender>
31.      <mobile>432656</mobile>
32.    </emp>
33.  </Employee>

```

Create a new project in Angular 8 by typing the following command.

```
01. | ng new read-xml-angular8 --routing
```

After creating the project, open the project in your favorite editor and install the "timers" npm package.

```
01. | npm install timers
```

This package is necessary for reading an XML file with xml2js package.

Open the index.html present at root folder and add a reference for Bootstrap and jQuery.

```

01. <!doctype html>
02. <html lang="en">
03.   <head>
04.     <meta charset="utf-8">
05.     <title>ReadXmlAngular8</title>
06.     <base href="/">
07.     <meta name="viewport" content="width=device-width, initial-
scale=1">
08.     <link rel="icon" type="image/x-icon" href="favicon.ico">
09.     <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap
10.     <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery
</script> <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14
</script> <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bc
</script>
11.   </head>
12.   <body>
13.     <app-root></app-root>
14.   </body>
15. </html>

```

Open the app.component.ts file and add the following code in it.

```

01. import { Component } from '@angular/core';
02. import xml2js from 'xml2js';
03. import { HttpClient, HttpHeaders } from '@angular/common/http';

```

```

06.     templateUrl: './app.component.html',
07.     styleUrls: ['./app.component.css']
08. })
09. export class AppComponent {
10.     title = 'read-xml-angular8';
11.     public xmlItems: any;
12.     constructor(private _http: HttpClient) { this.loadXML(); }
13.     loadXML() {
14.         this._http.get('/assets/users.xml',
15.             {
16.                 headers: new HttpHeaders()
17.                     .set('Content-Type', 'text/xml')
18.                     .append('Access-Control-Allow-Methods', 'GET')
19.                     .append('Access-Control-Allow-Origin', '*')
20.                     .append('Access-Control-Allow-Headers', "Access-Control-Allow-Headers, Access-Control-Allow-Origin, Access-Control-Request-Method"),
21.                 responseType: 'text'
22.             })
23.         .subscribe((data) => {
24.             this.parseXML(data)
25.                 .then((data) => {
26.                     this.xmlItems = data;
27.                 });
28.         });
29.     }
30.     parseXML(data) {
31.         return new Promise(resolve => {
32.             var k: string | number,
33.                 arr = [],
34.                 parser = new xml2js.Parser(
35.                     {
36.                         trim: true,
37.                         explicitArray: true
38.                     });
39.             parser.parseString(data, function (err, result) {
40.                 var obj = result.Employee;
41.                 for (k in obj.emp) {
42.                     var item = obj.emp[k];
43.                     arr.push({
44.                         id: item.id[0],
45.                         name: item.name[0],
46.                         gender: item.gender[0],
47.                         mobile: item.mobile[0]
48.                     });
49.                 }
50.                 resolve(arr);
51.             });
52.         });
53.     }
54. }

```

Here is the code for app.component.html file.

```

01. <div class="container">
02.     <table class="table table-bordered table-hover">
03.         <tr>
04.             <th>Id</th>
05.             <th>Name</th>
06.             <th>Gender</th>

```

```
09.         <tr *ngFor="let item of xmlItems">
10.             <td>{{item.id}}</td>
11.             <td>{{item.name}}</td>
12.             <td>{{item.gender}}</td>
13.             <td>{{item.mobile}}</td>
14.         </tr>
15.     </table>
16. </div>
```

Finally, add the HttpClientModule reference in the app.module.ts file and that's it.

```
01. import { BrowserModule } from '@angular/platform-browser';
02. import { NgModule } from '@angular/core';
03. import { AppRoutingModule } from './app-routing.module';
04. import { AppComponent } from './app.component';
05. import { HttpClientModule } from '@angular/common/http';
06. @NgModule({
07.   declarations: [
08.     AppComponent
09.   ],
10.   imports: [
11.     BrowserModule,
12.     AppRoutingModule,
13.     HttpClientModule
14.   ],
15.   providers: [],
16.   bootstrap: [AppComponent]
17. })
18. export class AppModule { }
```

Output



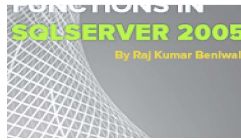
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Faisal Pathan is a .NET Project Manager, C# Corner MVP, and Founder of TheCodeHubs.com. He has extensive experience with designing and developing enterprise-scale applications. He has good skill of ASP.NET C#, ASP.NET Co... [Read more](#)

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Hello Team, Could please anyone guide on how to do this in Visual Studio 2017 instead if Visual Studio Code ? I have a web api,, that I need to convert to .NET Object and display the results in table format.

[Riddhi Valecha](#)

Jan 08, 2021

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Good Article

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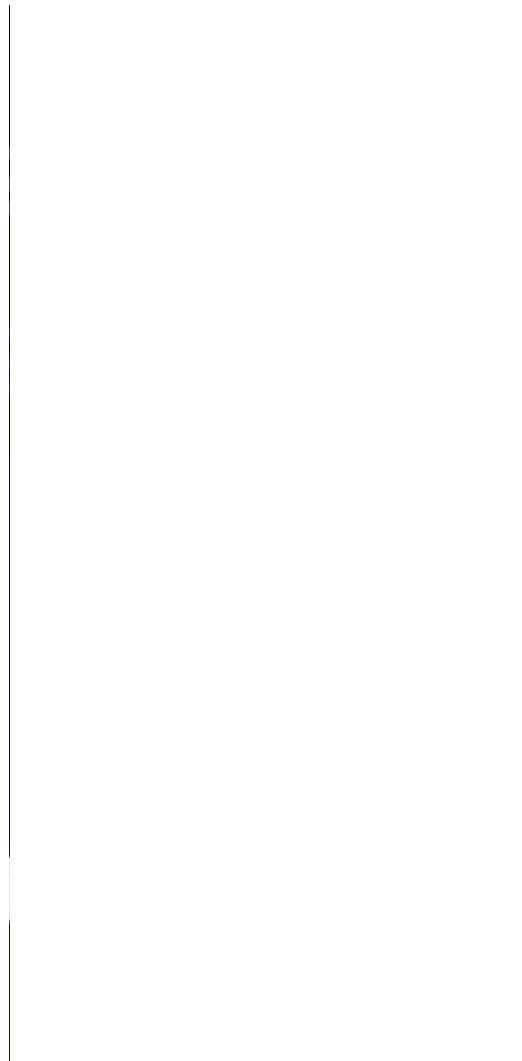
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Jul 25, 2019

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