

Experiment 11

Aim: Program for Creating and using APIs

Source Code: DefaultController.cs

```
using System; using
System.Collections.Generic;
using System.Linq; using
System.Net; using
System.Net.Http; using
System.Web.Http;

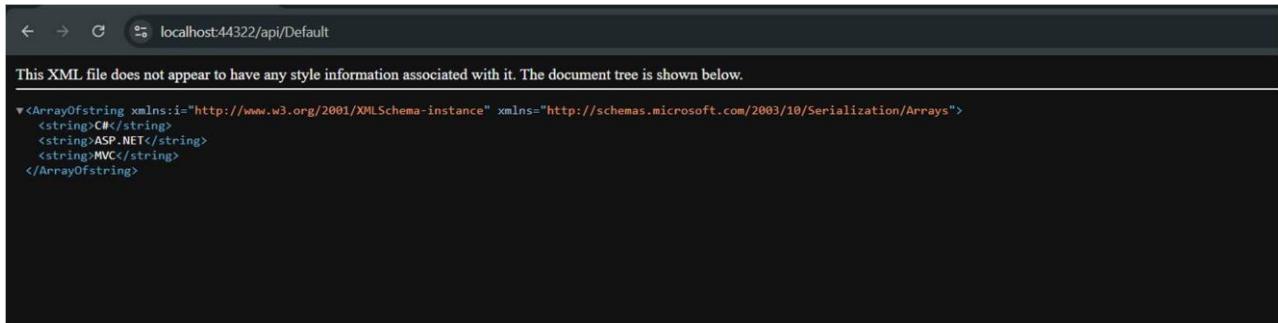
namespace practical_11.Controllers
{
    public class DefaultController : ApiController
    {
        static List<string> languages = new List<string>()
        {
            "C#", "ASP.NET", "MVC"
        };
        public IEnumerable<string>
        Get()
        {

```



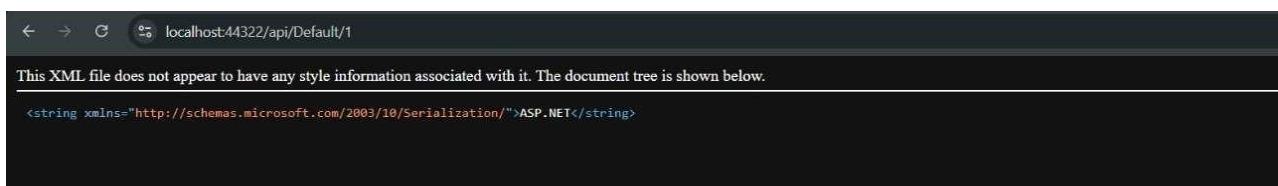
```
return languages;  
}  
  
public string Get(int id)  
{ return languages[id]; }  
  
  
  
public void Post([FromBody] string value)  
{  
    languages.Add(value);  
}  
  
public void Put(int id, [FromBody] string value)  
{  
    languages[id] = value;  
}  
  
public void Delete(int id)  
{  
    languages.RemoveAt(id);  
}  
}
```

}

Output:


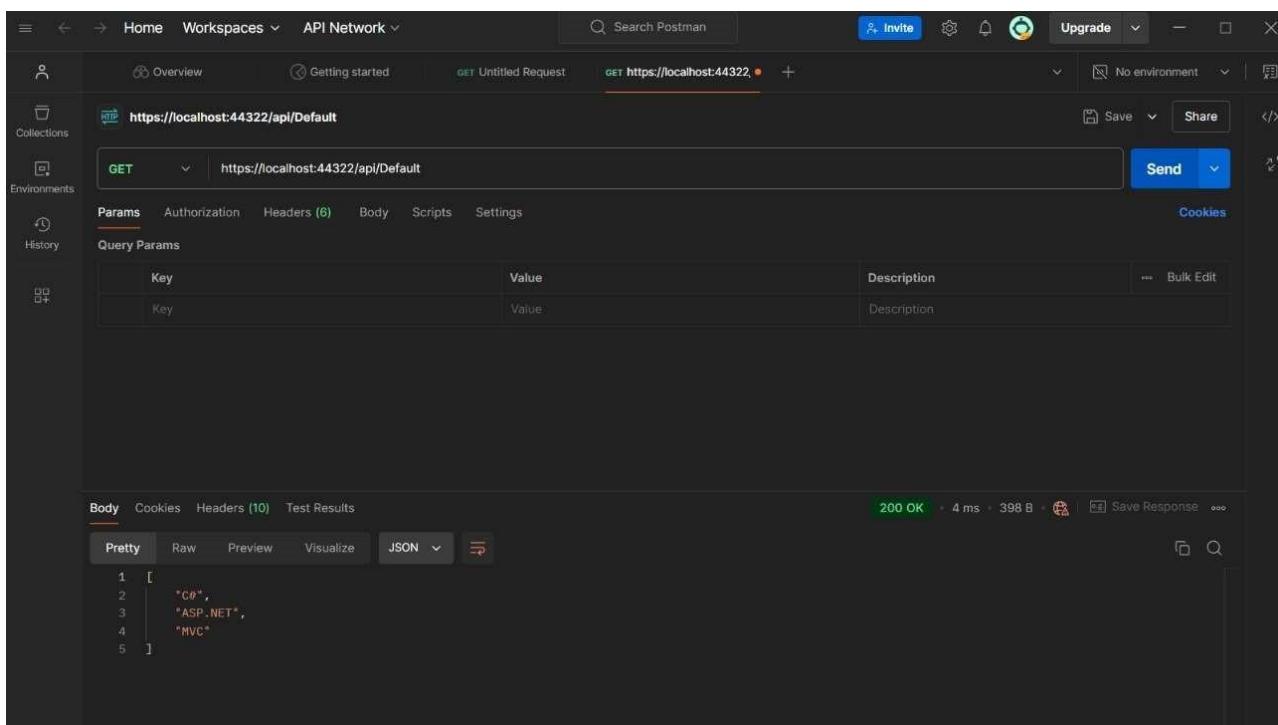
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<ArrayOfstring xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
  <string>C#</string>
  <string>ASP.NET</string>
  <string>MVC</string>
</ArrayOfstring>
```



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">ASP.NET</string>
```

GET -


Postman interface showing a GET request to `https://localhost:44322/api/Default`. The response status is 200 OK with a response time of 4 ms and a size of 398 B. The response body is:

```
Pretty Raw Preview Visualize JSON
1 [ "C#", "ASP.NET", "MVC" ]
```

POST -

https://localhost:44322/api/Default

GET https://localhost:44322/api/Default

Params Authorization Headers (8) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 "Mishva"
```

Body Cookies Headers (10) Test Results

200 OK 14 ms 407 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [
  "C#",
  "ASP.NET",
  "MVC",
  "Mishva"
]
```

PUT -

https://localhost:44322/api/Default

GET https://localhost:44322/api/Default

Params Authorization Headers (8) Body Scripts Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 "Sheladiya"
```

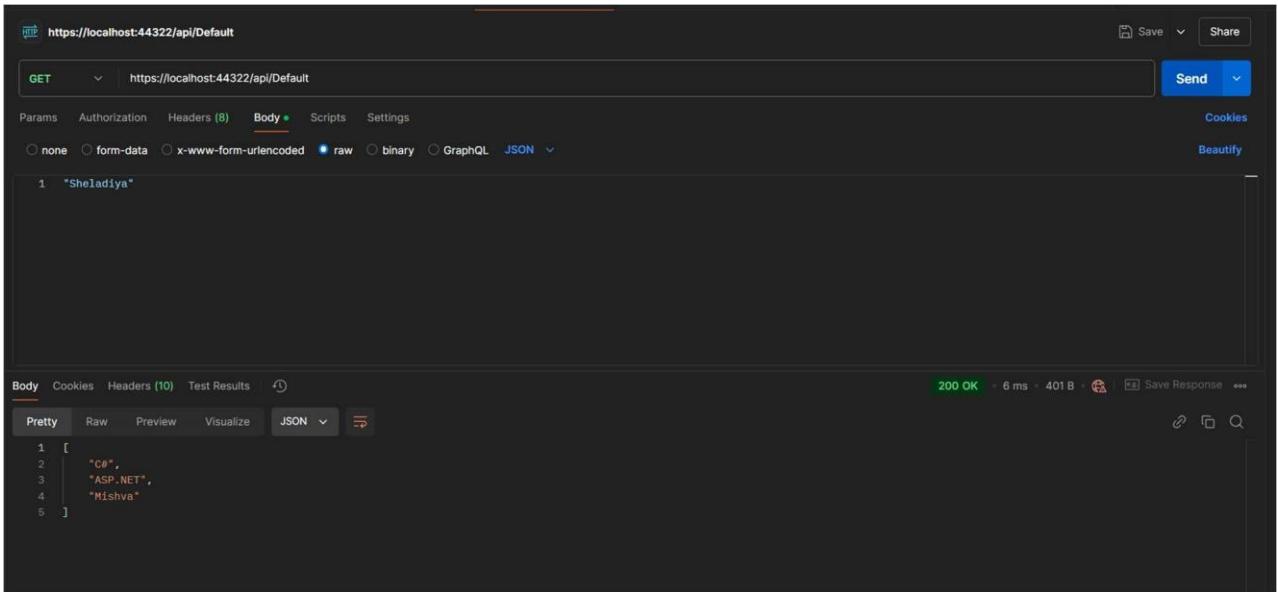
Body Cookies Headers (10) Test Results

200 OK 161 ms 413 B Save Response

Pretty Raw Preview Visualize JSON

```
1 [
  "C#",
  "ASP.NET",
  "Sheladiya",
  "Mishva"
]
```

DELETE -



The screenshot shows a Postman request to `https://localhost:44322/api/Default` using the `DELETE` method. The request body contains the string `"Sheladiya"`. The response is a `200 OK` status with a response time of 6 ms and a content length of 401 B. The response body is a JSON array:

```
1 [  
2   "C#",  
3   "ASP.NET",  
4   "Mishva"  
5 ]
```