

YouTube Link: <https://youtu.be/zGmWiFH-RJc>

Index.cshtml:

```
@model List<HolidayModel>
@{
    ViewData["Title"] = "Home Page";
}
<div>
    <h3 class="display-4">Public Holidays Finder</h3>
    <center>
        <form asp-controller="Home" asp-action="Index">
            <table>
                <tr>
                    <td>Country Code: </td>
                    <td>
                        <input type="text" id="txtCountryCode"
                            name="CountryCode" />
                    </td>
                    <td>Year: </td>
                    <td>
                        <input type="text" id="txtYear" name="Year"
                            />
                    </td>
                    <td><input type="submit" value="Submit" /></td>
                </tr>
            </table>
            <hr />
        </form>
    </center>
    @if (Model != null && Model.Count > 0)
    {
        <table class="table table-bordered table-striped table-sm">
            <thead>
                <tr>
                    <th>Date</th>
                    <th>Name</th>
                    <th>Local Name</th>
                    <th>Country Code</th>
                    <th>Global</th>
                </tr>
            </thead>
            <tbody>
                @foreach (var item in Model)
                {
```

```

        <tr>
            <td>@item.Date.Value.ToShortDateString()</td>
            <td>@Html.DisplayFor(modelItem =>
item.Name)</td>
            <td>@Html.DisplayFor(modelItem =>
item.LocalName)</td>
            <td>
                @Html.DisplayFor(modelItem =>
                    item.CountryCode)
            </td>
            <td>@Html.DisplayFor(modelItem =>
item.Global)</td>
        </tr>
    }
</tbody>
</table>
}
</div>

```

HolidaysApiService.cs:

```

using cecs475_lab3.Models;
using System.Text.Json;

namespace cecs475_lab3
{
    public class HolidaysApiService : IHolidaysApiService
    {
        private static readonly HttpClient client;
        static HolidaysApiService()
        {
            client = new HttpClient()
            {
                BaseAddress = new Uri("https://date.nager.at")
            };
        }

        public async Task<List<HolidayModel>> GetHolidays(string
countryCode, int
year)
        {
            var url = string.Format("/api/v2/PublicHolidays/{0}/{1}",
year,
countryCode);
            var result = new List<HolidayModel>();

```

```

        var response = await client.GetAsync(url);
        if (response.IsSuccessStatusCode)
        {
            var stringResponse = await
response.Content.ReadAsStringAsync();
            result =

JsonSerializer.Deserialize<List<HolidayModel>>(stringResponse,
            new JsonSerializerOptions()
            {
                PropertyNamingPolicy =
                JsonNamingPolicy.CamelCase
            });
        }

        return result;
    }
}

```

IHolidaysApiService.cs:

```

using cecs475_lab3.Models;

namespace cecs475_lab3
{
    public interface IHolidaysApiService
    {
        Task<List<HolidayModel>> GetHolidays(string countryCode, int
year);
    }
}

```

HolidayModel.cs:

```

namespace cecs475_lab3.Models
{
    public class HolidayModel
    {
        public string Name { get; set; }
        public string LocalName { get; set; }
        public DateTime? Date { get; set; }
        public string CountryCode { get; set; }
        public bool Global { get; set; }
    }
}

```

```
    }  
}
```

HomeController.cs:

```
using cecs475_lab3.Models;  
using Microsoft.AspNetCore.Mvc;  
using System.Diagnostics;  
  
namespace cecs475_lab3.Controllers  
{  
    public class HomeController : Controller  
    {  
        private readonly IHolidaysApiService _holidaysApiService;  
  
        public HomeController(IHolidaysApiService holidaysApiService)  
        {  
            _holidaysApiService = holidaysApiService;  
        }  
  
        public async Task<IActionResult> Index(string countryCode,  
int year)  
        {  
            List<HolidayModel> holidays = new List<HolidayModel>();  
            holidays = await  
_holidaysApiService.GetHolidays(countryCode,  
year);  
            return View(holidays);  
        }  
  
        public IActionResult Privacy()  
        {  
            return View();  
        }  
  
        [ResponseCache(Duration = 0, Location =  
ResponseCacheLocation.None, NoStore = true)]  
        public IActionResult Error()  
        {  
            return View(new ErrorViewModel { RequestId =  
Activity.Current?.Id ?? HttpContext.TraceIdentifier });  
        }  
    }  
}
```

