YouTube Link: https://youtu.be/nQmfWMENzgE

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)
                {
```

```html
                    <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:

```csharp
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:

```csharp
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 });
        }
    }
}
```

Index.html:

```html
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <title>Home Page</title>
    <link rel="stylesheet" href="/css/site.css" />
</head>
<body>
    <div>
        <h3 class="display-4">Public Holidays Finder</h3>
        <center>
            <form id="holidayForm">
                <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>
            <div id="holidayResults"></div>
        </center>


    </div>
    <script src="./js/site.js"></script>
</body>
</html>
```

site.js:

```javascript
document.addEventListener('DOMContentLoaded', function () {
    var holidayForm = document.getElementById('holidayForm');
    holidayForm.addEventListener('submit', function (e) {
        e.preventDefault();
        var hr = new XMLHttpRequest;
        var year = document.getElementById('txtYear').value;
        var countryCode =
document.getElementById('txtCountryCode').value;
        hr.open('GET', '/Home/Index?countryCode=' + countryCode +
'&year=' + year, true);

        hr.onreadystatechange = function () {
            if (hr.readyState === XMLHttpRequest.DONE) {
                if (hr.status === 200) {
                    var tableElement = document.createElement('div');
                    tableElement.innerHTML = hr.responseText;
                    var table =
tableElement.querySelector('.table.table-bordered.table-striped.table
-sm');

document.getElementById('holidayResults').innerHTML =
table.outerHTML;

                } else {
                    console.error('Error loading page:',
hr.statusText);
                }
            }

        };
        hr.send();
    });
});
```

<u>site.css:</u>

```css
@import url('site.css');
html {
    font-size: 14px;
}

@media (min-width: 768px) {
    html {
        font-size: 16px;
    }
}

.btn:focus, .btn:active:focus, .btn-link.nav-link:focus,
.form-control:focus, .form-check-input:focus {
    box-shadow: 0 0 0 0.1rem white, 0 0 0 0.25rem #258cfb;
}

html {
    position: relative;
    min-height: 100%;
}

body {
    margin-bottom: 60px;
}
```