```
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)
       4
     var stringResponse = await response.Content.ReadAsStringAsync();
       result =
       JsonSerializer.Deserialize<List<HolidayModel>>(stringResponse,
       new JsonSerializerOptions()
         PropertyNamingPolicy =
       JsonNamingPolicy.CamelCase
     else
       throw new HttpRequestException(response.ReasonPhrase);
    return result;
```

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

```
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 });
}
}
```

```
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; }
}
```

```
namespace CECS475_Lab3.Models
{
   public class ErrorViewModel
   {
     public string? RequestId { get; set; }

     public bool ShowRequestId => !string.lsNullOrEmpty(RequestId);
   }
}
```

Part 2

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Public Holidays Finder</title>
  k rel="stylesheet" type="text/css" href="styles.css">
<body>
  <div class="container">
     <h3>Public Holidays Finder</h3>
    <form id="holidayForm">
       <input type="text" id="txtCountryCode" name="CountryCode" placeholder="Enter Country Code (e.g., US)" />
       <input type="text" id="txtYear" name="Year" placeholder="Enter Year (e.g., 2023)" />
       <input type="submit" value="Submit" />
     </form>
     <div id="holidayData"></div>
  <script src="script.js"></script>
document.getElementById('holidayForm').addEventListener('submit', function(event) {
  event.preventDefault();
  var countryCode = document.getElementById('txtCountryCode').value;
  var year = document.getElementById('txtYear').value;
  fetchHolidays(countryCode, year);
});
function fetchHolidays(countryCode, year) {
  var apiUrl = `https://date.nager.at/api/v2/PublicHolidays/${year}/${countryCode}`;
```

```
fetch(apiUrl)
  .then(response => {
    if (!response.ok) {
      throw new Error('Network response was not ok');
    return response.json();
  })
  .then(data => {
    displayHolidays(data);
  })
  .catch(error => {
    console.error('Error fetching holiday data:', error);
  });
function displayHolidays(holidays) {
  var table = '';
  table += '<thead>DateNameLocal NameCountry
CodeGlobal
  table += '';
  holidays.forEach(function (holiday) {
    var dateParts = holiday.date.split('-');
    var formattedDate = dateParts[1] + '/' + dateParts[2] + '/' + dateParts[0];
    table += '';
    table += `${formattedDate}`;
    table += `${holiday.name}`;
    table += `${holiday.localName}`;
    table += `${holiday.countryCode}`;
    table += `${holiday.global}`;
    table += '';
  });
  table += '';
  document.getElementById('holidayData').innerHTML = table;
body {
```

```
font-family: Arial, sans-serif;
  background-color: #f0f0f0;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
.container {
  background-color: #fff;
  border-radius: 10px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
  padding: 20px;
  max-width: 600px;
  width: 100%;
  box-sizing: border-box;
h3 {
  text-align: center;
  margin-bottom: 20px;
  color: #333;
form {
  text-align: center;
table {
  width: 100%;
  border-collapse: collapse;
  margin-top: 20px;
th, td {
```

```
border: 1px solid #ddd;
  padding: 8px;
  text-align: left;
th {
  background-color: #f2f2f2;
input[type="text"],
input[type="submit"] {
  padding: 10px;
  border-radius: 5px;
  border: 1px solid #ccc;
  margin-bottom: 10px;
  width: calc(50% - 10px);
input[type="submit"] {
  background-color: #4caf50;
  color: white;
  cursor: pointer;
  width: auto;
input[type="submit"]:hover {
  background-color: #45a049;
```