

Lab assignment 2

Due date: Wednesday, November 12

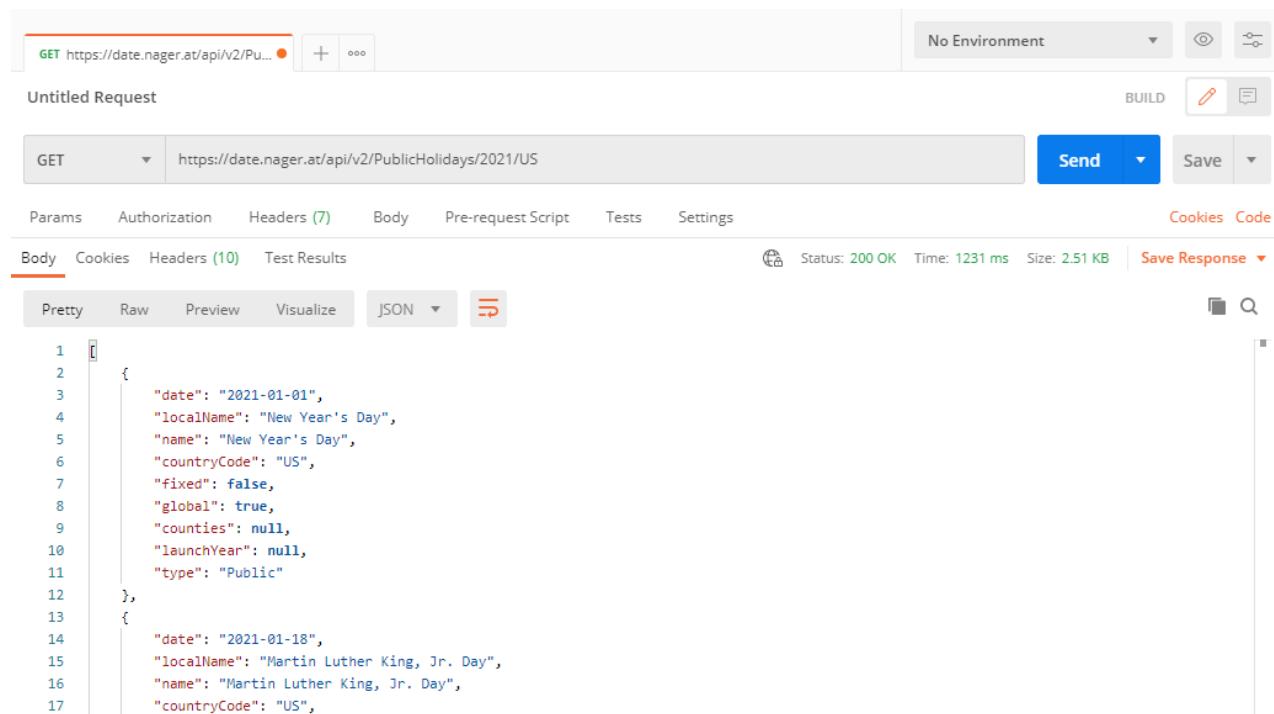
15 points

We will develop an application that will allow the user to input a country code and a year and then we will call a third party API to fetch the list of public holidays of that particular country in that particular year. The third-party API we will consume is called Nager.Date which is a worldwide public holidays API.

It is a very simple API and you can easily test this API in Postman or Swagger by entering the following URL.

<https://date.nager.at/api/v2/PublicHolidays/2020/US>

The response of this API is the list of public holidays in JSON format as shown below:



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{
  "date": "2021-01-01",
  "localName": "New Year's Day",
  "name": "New Year's Day",
  "countryCode": "US",
  "fixed": false,
  "global": true,
  "counties": null,
  "launchYear": null,
  "type": "Public"
},
{
  "date": "2021-01-18",
  "localName": "Martin Luther King, Jr. Day",
  "name": "Martin Luther King, Jr. Day",
  "countryCode": "US",
```

Your program should display a page similar to the following. **Output sample**

Country Code: Year:

Date	Name	Local Name	Country Code	Global
1/2/2023	New Year's Day	New Year's Day	US	<input checked="" type="checkbox"/>
1/16/2023	Martin Luther King, Jr. Day	Martin Luther King, Jr. Day	US	<input checked="" type="checkbox"/>
2/20/2023	Washington's Birthday	Presidents Day	US	<input checked="" type="checkbox"/>
4/7/2023	Good Friday	Good Friday	US	<input type="checkbox"/>
4/7/2023	Good Friday	Good Friday	US	<input type="checkbox"/>
5/29/2023	Memorial Day	Memorial Day	US	<input checked="" type="checkbox"/>
6/19/2023	Juneteenth	Juneteenth	US	<input checked="" type="checkbox"/>
7/4/2023	Independence Day	Independence Day	US	<input checked="" type="checkbox"/>
9/4/2023	Labour Day	Labor Day	US	<input checked="" type="checkbox"/>
10/9/2023	Columbus Day	Columbus Day	US	<input type="checkbox"/>
11/10/2023	Veterans Day	Veterans Day	US	<input checked="" type="checkbox"/>
11/23/2023	Thanksgiving Day	Thanksgiving Day	US	<input checked="" type="checkbox"/>
12/25/2023	Christmas Day	Christmas Day	US	<input checked="" type="checkbox"/>

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You can input a country code e.g. US, DE, etc., and a year e.g. 2021, and click the “Submit” button and if everything goes well you will see our code calling a third-party API, fetching a list of Public Holidays from the API and displaying it on the page.

Submission:

1. Submit the project in zip file (extension zip)
2. A pdf file with all the code you created.
3. A zoom link or YouTube that demonstrates all the features of the program (less than 4 minutes).
Write the link on the comment section in the Dropbox.
4. Completion of each team member

Note:

The program is running correctly and met all the requirements is 5 points, but
 Incomplete item 1 (-5 points)
 Incomplete item 2 (-5 points)
 Incomplete item 3 (-5 points)