Requirement: Create an Asp.Net Core Web Application that serves country details based on the request path.

Consider the following hard-coded list of countries:

1, United States

2, Canada

3, United Kingdom

4, India

5, Japan

You can store these countries directly as a dictionary.

Example #1:

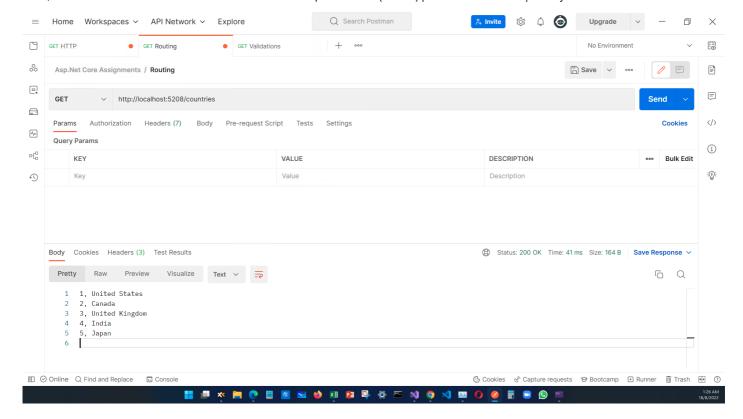If you receive a HTTP GET request at path "/countries", it has to return the list of available countries.

Request Url: /countries

Request Method: GET

Response Status Code: 200

Response body (output):
```
1, United States
2, Canada
3, United Kingdom
4, India
5, Japan
```

Example #2:

If you receive a HTTP GET request at path "/countries/{countryID}", it has to return the corresponding country name.
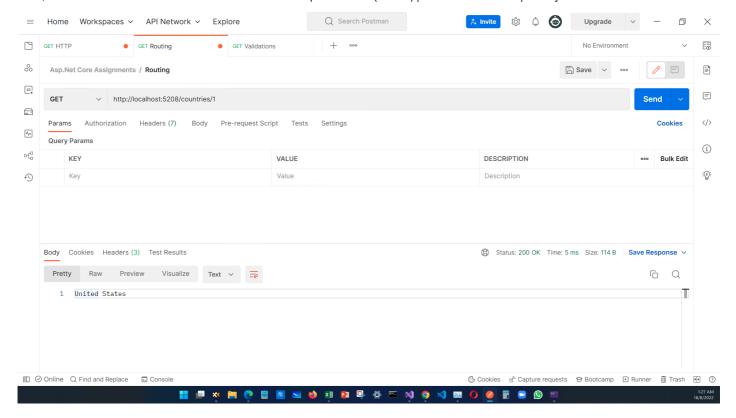
Request Url: /countries/1

Request Method: GET

Response Status Code: 200

Response body (output):

```
United States
```

Example #3:

If you receive a HTTP GET request at path "/countries/{countryID}", if the countryID doesn't exist (that is - outside the range of 1 to 5), it should return HTTP 404 response.

Request Url: /countries/6

Request Method: GET

Response Status Code: 404

Response body (output):

[No Country]

Example #3:

If you receive a HTTP GET request at path "/countries/{countryID}", if the countryID is greater than 100, it should return HTTP 404 response.

Request Url: /countries/101

Request Method: GET

Response Status Code: 400

Response body (output):

The CountryID should be between 1 and 100

Route Constraints:

The "countryID" parameter should be an int value.

The value of "countryID" parameter should be between 1 and 100.

Instructions:

- Create routes with UseEndPoints() middleware.
- Use essential route parameters and route constraints.
- Use parameter validation when necessary.
- Use Map(), MapGet() or MapPost() methods to create endpoints, according to the requirement.
- Return the response with appropriate response status code based on above examples.

Questions for this assignment

Check your source code with Instructor's source code.