

Assignment instructions

10 minutes to complete

123 student solutions

Requirement: Imagine a banking application. Create an Asp.Net Core Web Application that serves bank account details based on the request path.

Consider the following hard-coded bank account details:

```
accountNumber = 1001, accountHolderName = "Example Name", currentBalance = 5000
```

You can store these details as an anonymous object. Eg:

```
new { property1 = value, property2 = value }
```

Example #1:

If you receive a HTTP GET request at path "/" (default route), it has to return welcome message with status code HTTP 200.

Request Url: /

Request Method: GET

Response Status Code: 200

Response body (output):

Welcome to the Best Bank

Example #2:

If you receive a HTTP GET request at path `"/account-details"`, it has to return all the details of bank account as Json format as response with status code HTTP 200.

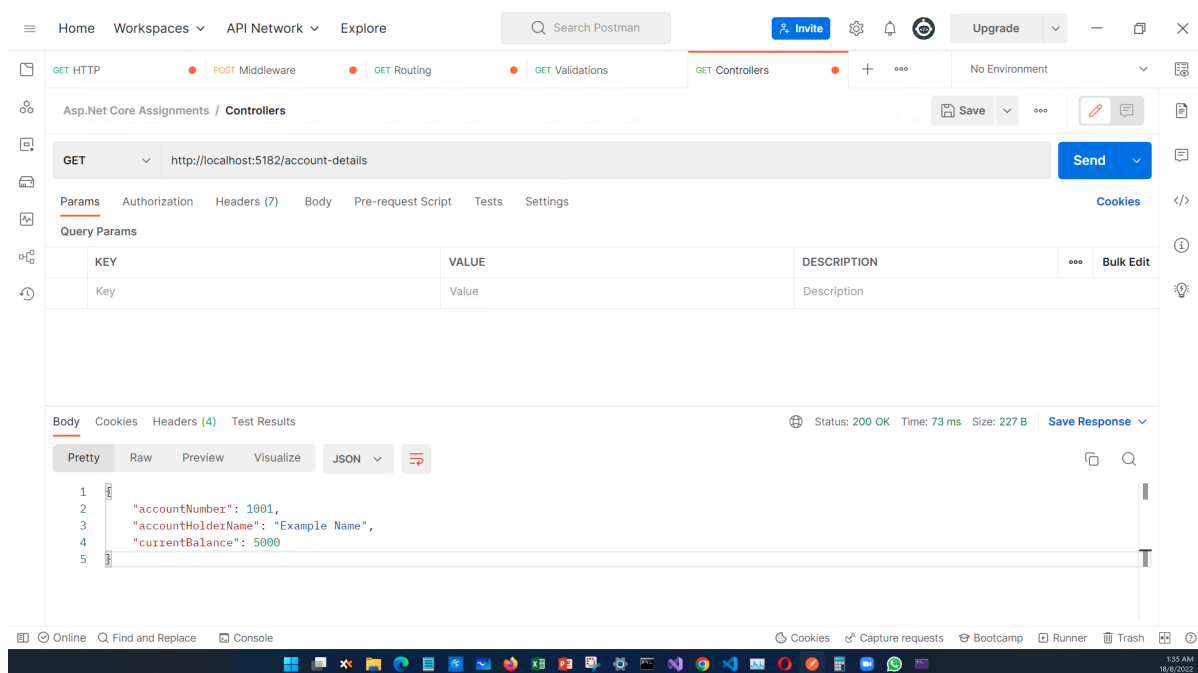
Request Url: `/account-details`

Request Method: GET

Response Status Code: 200

Response body (output):

```
{
  "accountNumber": 1001,
  "accountHolderName": "Example Name",
  "currentBalance": 5000
}
```



Example #3:

If you receive a HTTP GET request at path `"/account-statement"`, it has to return a dummy PDF file (assumed as bank statement) as response with status code HTTP 200.

Request Url: `/account-statement`

Request Method: GET

Response Status Code: 200

Response body (output):

[some dummy PDF file]

Example #4:

If you receive a HTTP GET request at path `"/get-current-balance/{accountNumber}"`, it has to return the corresponding current balance value as response with status code HTTP 200.

The `"accountNumber"` should be an int value and should be equal to `"1001"`.

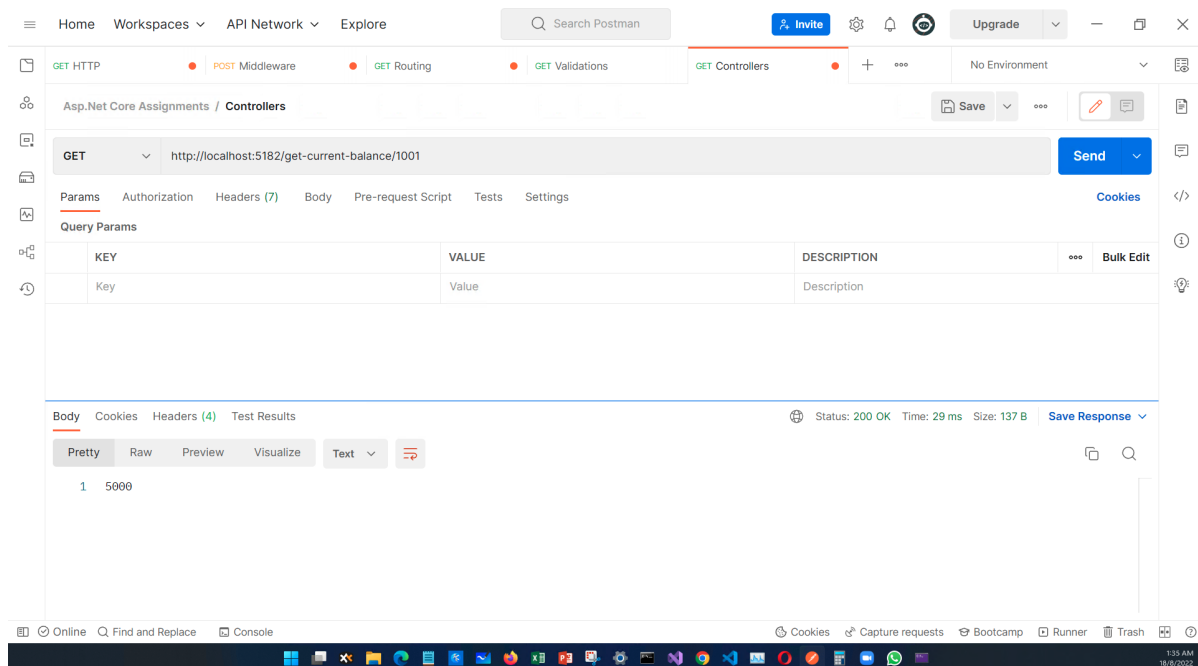
Request Url: `/get-current-balance/1001`

Request Method: GET

Response Status Code: 200

Response body (output):

5000



Example #5:

If you receive a HTTP GET request at path `"/get-current-balance/"`, if the `"accountNumber"` is not supplied, it should return HTTP 404 response.

Request Url: `/get-current-balance`

Request Method: GET

Response Status Code: 404

Response body (output):

Account Number should be supplied

Example #6:

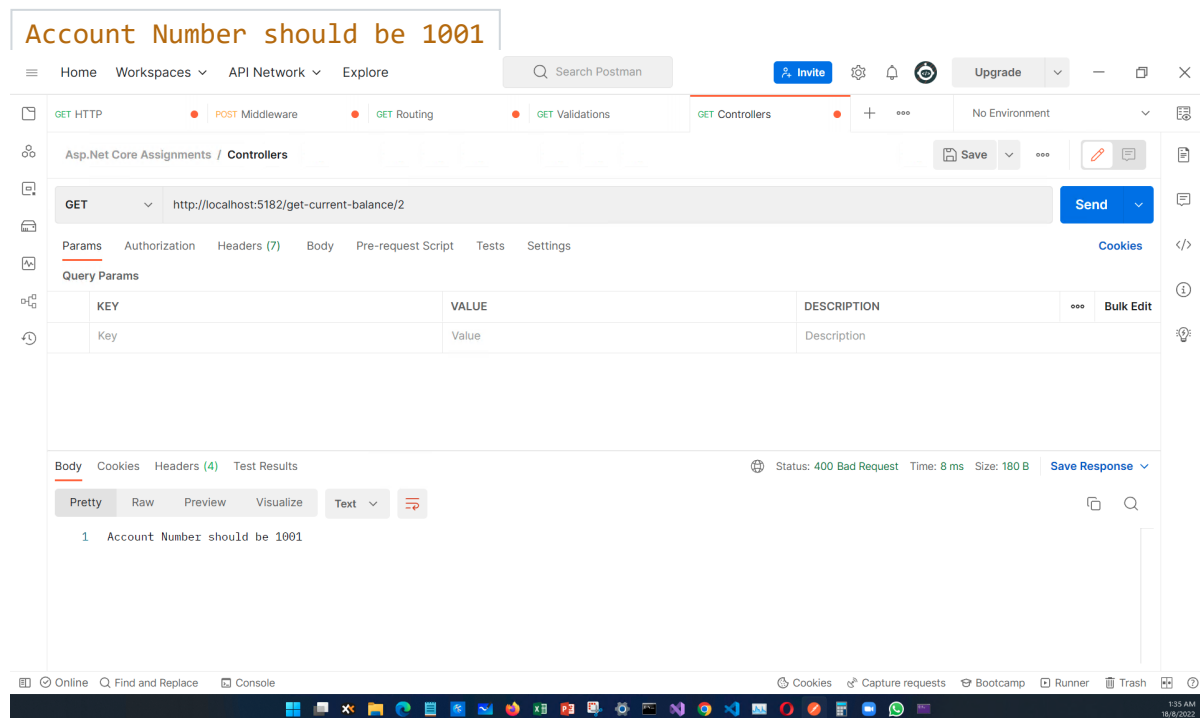
If you receive a HTTP GET request at path `"/get-current-balance/{accountNumber}"`, if the `"accountNumber"` is not equal to `'1001'`, it should return HTTP 400 response.

Request Url: `/get-current-balance/10`

Request Method: GET

Response Status Code: 400

Response body (output):



Route Constraints:

The `"accountNumber"` parameter should be an int value

Instructions:

- Create controller(s) with attribute routing.
- Use essential route parameters and route constraints.
- Use parameter validation when necessary.
- Return `ContentResult`, `JsonResult`, `FileResult` and other status code results when necessary.
- Return the appropriate HTTP response status code, based on above examples.

Questions for this assignment

Check your source code with Instructor's source code.