

Rest/Postman/Swagger Assignment

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Task 1 : Write an OpenAPI Specification that contain two basic endpoints(GET and POST)

Student API

1.0.0 OAS 3.0

API for Java Academy

[Contact Rohit Bikkad](#)

default

GET

/student

POST

/student

Schemas

student

name

> [...]

course

> [...]

rollNo

> [...]

POST

/student

To Add Student

Parameters

Try it out

Reset

No parameters

Request body

required

application/json

Example Value

Schema

```
{
  "name": "Rohit",
  "course": "Bikkad",
  "rollNo": 1
}
```

Responses


Curl

```
curl -X 'POST' \
  'http://localhost:8080/student' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "name": "Rohit",
    "course": "Bikkad",
    "rollNo": 1
  }'
```

Request URL

```
http://localhost:8080/student
```

Server response

Code	Details
201	<div><div>Response body</div><div><pre>{ "name": "Rohit", "course": "Bikkad", "rollNo": 1 }</pre></div><div> Download</div></div> <div><div>Response headers</div><div><pre>connection: keep-alive content-type: application/json;charset=UTF-8 date: Tue, 12 Mar 2024 07:45:54 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div></div>

Responses

GET /student

To fetch student

Parameters

No parameters

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8080/student' \
-H 'accept: application/json'
```

Request URL

http://localhost:8080/student

Server response

Code	Details
200	<div><div>Response body</div><div><pre>[{ "name": "Rohit", "course": "Bikkad", "rollNo": 1 }]</pre></div><div> Download</div></div> <div><div>Response headers</div><div><pre>connection: keep-alive content-type: application/json;charset=UTF-8 date: Tue, 12 Mar 2024 07:47:57 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div></div>

Responses

Responses

Code	Description	Links
200	<div><div>200 response</div><div><div>Media type</div><div>application/json</div></div><div>Controls Accept header.</div><div><div>Example Value</div><div>Schema</div></div><div><pre>{ "name": "string", "course": "string", "rollNo": 0 }</pre></div></div>	No links

Task 2 : Create at least one test and one visual representation using the data

The screenshot shows the Postman interface for a POST request to `http://localhost:8080/api/users`. The **Tests** tab is active, displaying the following JavaScript test scripts:

```
1 pm.test("Status code is 200", function () {
2   pm.response.to.have.status(200);
3 });
4 pm.test("Successful POST request", function () {
5   pm.expect(pm.response.code).to.be.oneOf([200]);
6 });
```

The **Test Results (2/2)** section shows two passed tests:

- PASS** Status code is 200
- PASS** Successful POST request

The status bar at the bottom indicates a 200 OK response, 10 ms execution time, and 229 B body size.

The screenshot shows the Postman interface for a GET request to `http://localhost:8080/api/users/1`. The **Tests** tab is active, displaying the following JavaScript test scripts:

```
1 pm.test("Status code is 200",function(){
2   pm.response.to.have.status(200);
3 })
4
5 var responseBody = pm.response.json();
6
7
8 pm.test("Response Body With User Id",function(){
9   pm.expect(responseBody.id).to.equal(1);
10 });
11
12 pm.test("Response Body With User Name",function(){
13   pm.expect(responseBody.userName).to.equal("rohit");
14 });
15
```

The **Test Results (3/3)** section shows three passed tests:

- PASS** Status code is 200
- PASS** Response Body With User Id
- PASS** Response Body With User Name

The status bar at the bottom indicates a 200 OK response, 6 ms execution time, and 231 B body size.

This screenshot shows the **Test Results (3/3)** section for the GET request. It displays the same three passed tests as the previous screenshot:

- PASS** Status code is 200
- PASS** Response Body With User Id
- PASS** Response Body With User Name

The status bar at the bottom indicates a 200 OK response, 6 ms execution time, and 231 B body size.

visual representation using the data -

```
var template = `

<style type="text/css">
    table {
      font-size: 14px;
      color: #333333;
      width: 100%;
      border-width: 1px;
      border-color: #87ceeb;
      border-collapse: collapse;
      box-sizing: border-box;
    }

    th {
      font-size: 18px;
      background-color: #87ceeb;
      border-width: 1px;
      padding: 8px !important;
      border-style: solid;
      border-color: #87ceeb;
      text-align: left;
    }

    tr {
      background-color: #ffffff;
    }

    td {
      font-size: 14px;
      border-width: 1px;
      padding: 8px !important;
      border-style: solid;
      border-color: #87ceeb;
    }

    tr:hover {
      background-color: #e0ffff;
    }
  </style>

  <table border="1">
    <tr>
      <th>Name</th>
      <th>Email</th>
    </tr>

    {{#each response}}
  </div>


```

```

        <tr>
            <td>{{userName}}</td>
            <td>{{email}}</td>
        </tr>
    </table>
    `;

    pm.visualizer.set(template, {
        response: JSON.parse(responseBody)
    });

```

US 1/CON 24. Register by March 26 to save 30%. [Learn more](#)

update GET ByMe New Ri GET Get Us POST Add GET Get E POST Ac > + No Environment

Assignment / Assignment3 / User / Get User Save

GET http://localhost:8080/api/users Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

```

51 {{/each}}
52 </table>
53 `;
54
55 pm.visualizer.set(template, {

```

Test scripts are written in JavaScript, and are run after the response is received. Learn more about [tests scripts](#)

Snippets

Body Cookies Headers (5) Test Results 200 OK 6 ms 297 B Save as example

Pretty Raw Preview Visualize

Name	Email
rohit	rohit123@gmail.com
Ram	ram123@gmail.com