

Nama : Yudhistira Kusuma
NPM : 202310067
Kelas : 5 TI-20-PA
Matkul : Teknologi Microservices dan Web Service

Tabel Student

Create Success

The screenshot shows the Postman interface with a successful API call. The URL is `localhost:8080/api/student`. The request method is POST. The body contains the following JSON:

```
1 "npm": "202310067",
2 "firstname": "Shania",
3 "middlename": "Oktaviani",
4 "lastname": "Gunawan",
5 "program_id": 22,
6 "department_id": 100
```

The response status is 200 OK, time 933 ms, size 331 B. The response body is:

```
1 {
2   "result": true,
3   "message": [],
4   "data": [
5     {
6       "id": 4,
7       "npm": "202310067",
8       "firstname": "Shania",
9       "middlename": "Oktaviani",
10      "lastname": "Gunawan",
11      "program_id": 22,
12      "department_id": 100
13    }
14  ]}
```

Create Error

The screenshot shows the Postman interface with an error response. The URL is `localhost:8080/api/student`. The request method is POST. The body contains the following JSON:

```
1 "npm": "",
2 "firstname": "Shania",
3 "middlename": "Oktaviani",
4 "lastname": "Gunawan",
5 "program_id": 22,
6 "department_id": 100
```

The response status is 400 Bad Request, time 32 ms, size 202 B. The response body is:

```
1 {
2   "result": false,
3   "message": [
4     "NPM is required"
5   ],
6   "data": null
7 }
```

Read Success

The screenshot shows the Postman application interface with the following details:

- Left Sidebar (My Workspace):** Shows collections for "API-IBIK" and "Programs". Under "Programs", there are four items: "POST Insert Programs", "PUT Update Programs", "GET Find All Programs" (which is selected), and "DELETE Delete Programs By Id".
- Request URL:** GET localhost:8080/api/student
- Headers:** Authorization, Headers (6), Body, Pre-request Script, Tests, Settings.
- Query Params:** Key, Value, Description, Bulk Edit.
- Body:** Pretty, Raw, Preview, Visualize, JSON. The response body is displayed in JSON format:

```
1
2   "result": true,
3   "message": [],
4   "data": [
5     {
6       "id": 1,
7       "npe": "202310007",
8       "firstname": "Yudhistira",
9       "middlename": "Kusuma",
10      "lastname": "Aja",
11      "program_id": 22,
12      "department": "100"
13    }
14  ]
```

- Response Headers:** Status: 200 OK, Time: 149 ms, Size: 585 B, Save Response.
- Bottom Bar:** Online, Find and Replace, Console, Cookies, Capture requests, Bootcamp, Runner, Trash, 21:41, 19/10/2022.

Retrieve Success

The screenshot shows the Postman interface with the following details:

- Request URL:** `localhost:8080/api/student/2`
- Method:** GET
- Body:** JSON response (Pretty)

```
1
2   "result": true,
3   "message": [],
4   "data": [
5     {
6       "id": 2,
7       "npn": "+202310060",
8       "firstname": "Michael",
9       "middlename": "Mervin",
10      "lastname": "Ruswan",
11      "program_id": 23,
12      "AlumniManagement_id": 100
13    }
14  ]
```

The status bar at the bottom indicates: Status: 200 OK Time: 15 ms Size: 328 B Save Response.

Retrieve Error

The screenshot shows the Postman interface with the following details:

- Request URL:** `localhost:8080/api/student/5`
- Method:** GET
- Body:** JSON response (Pretty)

```
1
2   "result": false,
3   "message": [
4     "No value present"
5   ],
6   "data": null
7 ]
```

The status bar at the bottom indicates: Status: 400 Bad Request Time: 10 ms Size: 203 B Save Response.

Delete Success

The Postman interface shows a successful API call. The URL is `localhost:8080/api/student/4`. The response status is 200 OK, time 20 ms, size 225 B. The response body is:

```
1 [ {  
2   "result": true,  
3   "message": [  
4     "Successfully Remove"  
5   ],  
6   "data": null  
7 } ]
```

Delete Error

The Postman interface shows an error response from the same API call. The status is 400 Bad Request, time 10 ms, size 279 B. The response body is:

```
1 [ {  
2   "result": false,  
3   "message": [  
4     "No class com.ibik.academicservices.academicservices.student.Student entity with id 4 exists!"  
5   ],  
6   "data": null  
7 } ]
```

Tabel Programs

Create Success

The screenshot shows the Postman interface with a successful API call. The request is a POST to `localhost:8080/api/programs`. The body contains JSON data:

```
1 {
2   "name": "Internship",
3   "description": "S9",
4   "is_active": 1
5 }
```

The response status is 200 OK, with a response body:

```
1 {
2   "result": true,
3   "message": [],
4   "data": [
5     {
6       "id": 4,
7       "name": "Internship",
8       "description": "S9",
9       "is_active": true
10    }
11  ]
12 }
```

Create Error

The screenshot shows the Postman interface with an error response. The request is a POST to `localhost:8080/api/programs`. The body contains JSON data with a missing 'name' field:

```
1 {
2   "name": "",
3   "description": "S9",
4   "is_active": 1
5 }
```

The response status is 400 Bad Request, with a response body:

```
1 {
2   "result": false,
3   "message": [
4     "Name is required"
5   ],
6   "data": null
7 }
```

Read Success

The screenshot shows the Postman application interface. On the left, the sidebar displays 'My Workspace' with a collection named 'API-IBIK' containing a 'Programs' folder. Inside 'Programs', there are four items: 'POST Insert Programs', 'PUT Update Programs', 'GET Find All Programs' (which is selected), and 'DELETE Delete Programs By Id'. The main workspace shows a GET request to 'localhost:8080/api/programs/1'. The 'Body' tab is selected, showing the response body in JSON format:

```
1 [ { "result": true, "message": [], "data": [ { "id": 1, "name": "Doctoralll Degreee", "description": "S1++", "is_active": true } ] } ]
```

The status bar at the bottom indicates: Status: 200 OK, Time: 15 ms, Size: 277 B, Save Response, and the date 19/10/2022.

Update Success

The screenshot shows the Postman interface with a successful API update. The left sidebar displays the 'My Workspace' collection under 'API-IBIK'. The 'Programs' section contains several requests: 'POST Insert Programs', 'PUT Update Programs', 'GET Find All Programs', 'GET Find Programs By Id', and 'DELETE Delete Programs By Id'. The 'PUT Update Programs' request is selected, showing a PUT method to 'localhost:8080/api/programs/'. The 'Body' tab is active, containing the following JSON payload:

```
1
2
3   ...
4     "id": 1,
5     "name": "Doctoral Degree",
6     "description": "S1++",
7     "is_active": true
8
9
10
11
```

The response status is 200 OK, with a response body indicating success:

```
1
2
3   {
4     "result": true,
5     "message": [],
6     "data": [
7       {
8         "id": 1,
9         "name": "Doctoral Degree",
10        "description": "S1++",
11        "is_active": true
12     }
13   ]
14 }
```

Update Error

The screenshot shows the Postman interface with an API update error. The setup is identical to the previous screenshot, with the 'PUT Update Programs' request selected. However, the response status is 400 Bad Request, with a response body indicating an ID is required:

```
1
2
3   {
4     "result": false,
5     "message": [
6       "ID is Required"
7     ],
8     "data": null
9
10
11
```

Retrive Success

The screenshot shows the Postman interface with a successful API call. The request URL is `localhost:8080/api/programs/2`. The response status is `200 OK`, time `9 ms`, and size `270 B`. The response body is:

```
1 [ {  
2   "result": true,  
3   "message": [],  
4   "data": [  
5     {  
6       "id": 2,  
7       "name": "Master Degree",  
8       "description": "52",  
9       "is_active": true  
10    }  
11  ]  
12 } ]
```

Retrive Error

The screenshot shows the Postman interface with an error response. The request URL is `localhost:8080/api/programs/6`. The response status is `400 Bad Request`, time `7 ms`, and size `203 B`. The response body is:

```
1 [ {  
2   "result": false,  
3   "message": [  
4     "No value present"  
5   ],  
6   "data": null  
7 } ]
```

Delete Success

The screenshot shows the Postman interface with a successful API call. The URL is `localhost:8080/api/programs/4`. The response status is `200 OK`, time `12 ms`, and size `225 B`. The response body is:

```
1 [ { "result": true, "message": [ "Successfully Remove" ], "data": null } ]
```

Delete Error

The screenshot shows the Postman interface with an error response. The URL is `localhost:8080/api/programs/4`. The response status is `400 Bad Request`, time `14 ms`, and size `281 B`. The response body is:

```
1 [ { "result": false, "message": [ "No class com.ibik.academicservices.academicservices.programs.entity with id 4 exists!" ], "data": null } ]
```

Tabel Program Studi

Create Success

The screenshot shows the Postman interface with a successful API call. The request is a POST to `localhost:8080/api/program_study`. The JSON body contains the following data:

```
1
2
3   "name": "Teknologi Informasi",
4   "description": "S1",
5   "code": "TI-PA",
6   "program_id": 26,
7   "faculty_id": 23,
8   "department_id": 100,
9   "is_active": 1
```

The response status is 200 OK, time 28 ms, size 342 B. The response body is:

```
1
2
3   "result": true,
4   "message": [],
5   "data": [
6     {
7       "id": 1,
8       "name": "Teknologi Informasi",
9       "description": "S1",
10      "code": "TI-PA",
11      "program_id": 26,
12      "faculty_id": 23,
13      "department_id": 100,
```

Create Error

The screenshot shows the Postman interface with an error response. The request is a POST to `localhost:8080/api/program_study`. The JSON body is missing the 'name' field.

```
1
2
3   "name": "",
```

The response status is 400 Bad Request, time 6 ms, size 203 B. The response body is:

```
1
2
3   "result": false,
4   "message": [
5     "Name is required"
6   ],
7   "data": null
```

Read Success

The screenshot shows the Postman application interface with the following details:

- Left Sidebar:** My Workspace, Collections (API-IBIK), APIs, Environments, Mock Servers, Monitors, Flows, History.
- Request URL:** GET localhost:8080/api/program_study
- Request Headers:** Authorization, Headers (6), Body, Pre-request Script, Tests, Settings.
- Query Params:** Key, Value, Description.
- Body:** Status: 200 OK, Time: 11 ms, Size: 342 B, Save Response.
- Response Body (Pretty JSON):**

```
1 [ { "result": true, "message": [], "data": [ { "id": 1, "name": "Teknologi Informasi", "description": "S1", "code": "TI-PA", "program_id": 29, "faculty_id": 23, "alma_mater_id": 100 } ] } ]
```
- Bottom Bar:** Online, Find and Replace, Console, Weather (23°C Berawan), System tray (22:10, 19/10/2022).

Update Success

The screenshot shows the Postman interface with the following details:

- Request URL:** PUT localhost:8080/api/program_study
- Body (JSON):**

```
1 | {
2 |   "id": 1,
3 |   "name": "Teknologi Informasi",
4 |   "description": "S1",
5 |   "code": "TI-PA",
6 |   "program_id": 20,
7 |   "faculty_id": 23,
8 |   "department_id": 100,
9 |   "is_active": 1
10| }
```

- Response Status:** 200 OK
- Response Body (Pretty JSON):**

```
1 | {
2 |   "result": true,
3 |   "message": [],
4 |   "data": [
5 |     {
6 |       "id": 1,
7 |       "name": "Teknologi Informasi",
8 |       "description": "S1",
9 |       "code": "TI-PA",
10|      "program_id": 20,
11|      "faculty_id": 23,
12|      "department_id": 100,
13|      "is_active": 1
14|    }
15|  ]
16| }
```

Update Error

The screenshot shows the Postman interface with the following details:

- Request URL:** PUT localhost:8080/api/program_study
- Body (JSON):**

```
1 | {
2 |   "id": 1,
3 |   "name": "Teknologi Informasi",
4 |   "description": "S1",
5 |   "code": "TI-PA",
6 |   "program_id": 20,
7 |   "faculty_id": 23,
8 |   "department_id": 100,
9 |   "is_active": 1
10| }
```

- Response Status:** 400 Bad Request
- Response Body (Pretty JSON):**

```
1 | {
2 |   "result": false,
3 |   "message": [
4 |     "ID is Required"
5 |   ],
6 |   "data": null
7 | }
```

Retrive Success

The screenshot shows the Postman interface with a successful API call. The URL is `localhost:8080/api/program_study/1`. The response status is 200 OK, time 14 ms, size 348 B. The response body is:

```
1 "result": true,
2 "message": [],
3 "data": [
4     {
5         "id": 1,
6         "name": "Teknologi Informasi",
7         "description": "S1",
8         "code": "TI-PA",
9         "program_id": 29,
10        "faculty_id": 23,
11        "AlmaMater_id": 100
```

Retrive Error

The screenshot shows the Postman interface with an error API call. The URL is `localhost:8080/api/program_study/4`. The response status is 400 Bad Request, time 11 ms, size 203 B. The response body is:

```
1 "result": false,
2 "message": [
3     "No value present"
4 ],
5 "data": null
```

Delete Success

The screenshot shows the Postman interface with the following details:

- Request URL:** `localhost:8080/api/program_study/1`
- Method:** `DELETE`
- Body:** (Empty)
- Response Status:** `200 OK`
- Response Body (Pretty JSON):**

```
1 [ { "result": true, "message": [ "Successfully Remove" ], "data": null } ]
```

Delete Error

The screenshot shows the Postman interface with the following details:

- Request URL:** `localhost:8080/api/program_study/1`
- Method:** `DELETE`
- Body:** (Empty)
- Response Status:** `400 Bad Request`
- Response Body (Pretty JSON):**

```
1 [ { "result": false, "message": [ "No class com.ibik.academicservices.academicservices.program_study.ProgramStudy entity with id 1 exists!" ], "data": null } ]
```