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Tugas Teknologi Micro Service dan Web Service

Program Study

- Insert Program Study

The screenshot shows the Postman interface with a workspace named 'API_IBIK'. A POST request is configured to 'localhost:8080/api/program_study'. The request body is a JSON object with the following data:

```
{  "name": "Teknologi Informasi",  "description": "S1",  "code": "TI PA",  "program_id": 20,  "faculty_id": 23,  "department_id": 100,  "is_active": 1}
```

The response status is 200 OK. The response body is a JSON object:

```
{  "id": 1,  "name": "Teknologi Informasi",  "description": "S1",  "code": "TI PA",  "program_id": 20,  "faculty_id": 23,  "department_id": 100,  "is_active": true}
```

The screenshot shows the phpMyAdmin interface for the 'ibik_api_academic' database. The 'program_study' table is selected, and the query results show one row:

id	code	department_id	description	faculty_id	is_active	name	program_id
1	TI PA	100	S1	23	1	Teknologi Informasi	20

- Find All Program Study

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar is expanded to 'API_IBIK' > 'Program Study' > 'GET Find All Program Study'. The main panel shows a GET request to `localhost:8080/api/program_study`. The 'Body' tab is selected, showing a JSON response:

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

The status bar at the bottom indicates a 200 OK response with a time of 39.90 s and a size of 306 B.

- Find By Id

The screenshot shows the Postman application interface. On the left, the 'My Workspace' sidebar is expanded to 'API_IBIK' > 'Program Study' > 'GET Find By Id'. The main panel shows a GET request to `localhost:8080/api/program_study` with a query parameter `id=1`. The 'Body' tab is selected, showing a JSON response:

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

The status bar at the bottom indicates a 200 OK response with a time of 428 ms and a size of 306 B.

- Update Program Study

The screenshot shows the Postman application interface. The left sidebar displays the 'My Workspace' with a collection named 'API_IBIK' containing a folder 'Program Study'. Inside this folder, the 'PUT Update Program Study' request is selected. The main panel shows the details of this request:

- Method:** PUT
- URL:** localhost:8080/api/program_study
- Body:** A JSON object with the following fields:

```
{  "id": 2,  "name": "Akutansi",  "description": "S1",  "code": "AK PA",  "program_id": 22,  "faculty_id": 23,  "department_id": 100,  "is_active": true}
```
- Response:** The status is 200 OK, and the response body is identical to the request body.

The screenshot shows the phpMyAdmin web interface. The left sidebar shows the database structure, with 'ibik_api_academic' selected and 'program_study' highlighted. The main panel displays the 'program_study' table with the following data:

id	code	department_id	description	faculty_id	is_active	name	program_id
1	TI PA	100	S1	23	1	Teknologi Informasi	20
2	AK PA	100	S1	23	1	Akutansi	22

- Delete

The screenshot shows the Postman application interface. The top navigation bar includes 'Home', 'Workspaces', 'API Network', and 'Explore'. A search bar labeled 'Search Postman' is present. On the right, there are buttons for 'Invite', 'Upgrade', and a close button. The main workspace is titled 'My Workspace' and contains a list of collections. The 'API_IBIK' collection is expanded, showing 'Programs' and 'Program Study'. Under 'Program Study', there are several requests: 'POST Insert Program Study', 'GET Find All Program Study', 'GET Find By Id', 'PUT Update Program Study', 'DEL Delete', and 'GET New Request'. The 'DEL Delete' request is selected. The request details panel shows the URL 'localhost:8080/api/program_study/2' and the method 'DELETE'. The 'Body' tab is active, showing 'This request does not have a body'. The 'Headers' tab shows 7 headers. The 'Status' bar at the bottom indicates '200 OK' with a time of 11.12 s and a size of 123 B. The bottom status bar shows 'Type here to search' and system information.

The screenshot shows the phpMyAdmin web interface. The top navigation bar includes 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. The main content area displays the results of a SQL query: 'SELECT * FROM `program_study`'. The query executed was 'SELECT * FROM `program_study`' and it returned 0 rows. Below the query results, there is a table with columns: 'id', 'code', 'department_id', 'description', 'faculty_id', 'is_active', 'name', and 'program_id'. The table contains one row of data: '1', 'TI PA', '100', 'S1', '23', '1', 'Teknologi Informasi', and '20'. The bottom status bar shows 'Type here to search' and system information.

Student

- Insert student

Postman interface showing a successful POST request to `localhost:8080/api/student`. The request body is a JSON object with the following data:

```
{  "npm": "202310063",  "firstname": "Muhamad",  "middlename": "Al",  "lastname": "kahfi",  "program_id": "20",  "department_id": "100"}
```

The response is a JSON object with the following data:

```
{  "id": 2,  "npm": "202310063",  "firstname": "Muhamad",  "middlename": "Al",  "lastname": "kahfi",  "program_id": "20",  "department_id": "100"}
```

phpMyAdmin interface showing the `student` table in the `ibik_api_academic` database. The table contains one row with the following data:

id	department_id	firstname	lastname	middlename	npm	program_id
1	100	Muhamad	kahfi	Al	202310063	20

- Find All Student

Postman interface showing a GET request to `localhost:8080/api/student`. The response is a JSON array of student objects. The first object is:

```
{
  "id": 1,
  "npm": "202310063",
  "firstname": "Muhamad",
  "middlename": "A1",
  "lastname": "kahfi",
  "program_id": 20,
  "department_id": 100
}
```

- Find By Id

Postman interface showing a GET request to `localhost:8080/api/student/2`. The response is a JSON object for the student with id 2:

```
{
  "id": 2,
  "npm": "202310063",
  "firstname": "Muhamad",
  "middlename": "A1",
  "lastname": "kahfi",
  "program_id": 20,
  "department_id": 100
}
```

- Update Student

The screenshot shows the Postman interface with a PUT request to `localhost:8080/api/student`. The request body is a JSON object:

```
{  "npm": "202310063",  "firstname": "Udin",  "middlename": "Tengah",  "lastname": "Akhiz",  "program_id": 20,  "department_id": 1}
```

The response status is 200 OK, and the response body is a JSON object:

```
{  "id": 3,  "npm": "202310063",  "firstname": "Udin",  "middlename": "Tengah",  "lastname": "Akhiz",  "program_id": 20,  "department_id": 1}
```

The screenshot shows the phpMyAdmin interface displaying the 'student' table. The table has 3 rows of data:

	id	department_id	firstname	lastname	middlename	npm	program_id
<input type="checkbox"/>	1	100	Muhamad	kahfi	Al	202310063	20
<input type="checkbox"/>	2	100	Muhamad	kahfi	Al	202310063	20
<input type="checkbox"/>	3	1	Udin	Akhiz	Tengah	202310063	20

- Delete

The screenshot shows the Postman interface with a workspace named 'My Workspace'. A collection named 'API_IBIK' is expanded, showing a folder 'Student' with several endpoints. The 'DELETE' endpoint is selected, and a request is being made to 'localhost:8080/api/student/3'. The request body is empty. The response is a 200 OK status, indicating a successful deletion.

API_IBIK / Student / Delete

DELETE localhost:8080/api/student/3

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Body

Status: 200 OK Time: 13.50 s Size: 123 B Save Response

The screenshot shows the phpMyAdmin interface. The 'student' table is selected, and the query results are displayed. The table has 2 rows of data. The columns are id, department_id, firstname, lastname, middlename, npm, and program_id.

Showing rows 0 - 1 (2 total, Query took 0.0031 seconds)

SELECT * FROM `student`

	id	department_id	firstname	lastname	middlename	npm	program_id
<input type="checkbox"/>	1	100	Muhamad	kahfi	Al	202310063	20
<input type="checkbox"/>	2	100	Muhamad	kahfi	Al	202310063	20