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# QUIZ FRAMEWORK PROGRAMMING

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Arranged By:

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(1941720080/20)

PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG



## Question

- Create a program using Fake API (JSON Server) to record student status (active, leave, or graduate) in Information Technology Department. Attributes contained in students are student number, name, phone number, study program, year of class, and status. Applications are made using the API with GET, DELETE, and POST methods.

### 1. STRUCTURE CODE

The screenshot displays the Visual Studio Code interface for a project named 'BlogPostjsx - quiz-rajendra'. The Explorer panel on the left shows the file structure, including 'src', 'component', 'container', and 'BlogPost'. The main editor shows the 'BlogPost.jsx' file with the following code:

```
src > container > BlogPost > BlogPost.jsx > BlogPost > render
1 import React, {Component} from "react";
2 import './BlogPost.css';
3 import Post from "../../component/BlogPost/Post";
4
5 class BlogPost extends Component{
6   state = {
7     listArtikel: [], // variabel array yang digunakan untuk menyimpan data API
8     insertArtikel: { // variabel yang digunakan untuk menampung sementara data yang akan di insert
9       userId: 1, // kolom userId, id, title, dan body sama, mengikuti kolom yang ada pada listArtikel
10      id: 1,
11      title: "",
12      body: ""
13    }
14  }
15
16  ambilDataDariServerAPI = () => { // fungsi untuk mengambil data dari API dengan penambahan sort
17    fetch('http://localhost:3000/posts?_sort=id&_order=desc') // penambahan sort dan order berdasarkan paramet
18      .then(response => response.json()) // ubah response data dari URL API menjadi sebuah data json
19      .then(jsonHasilAmbilDariAPI => { // data json hasil ambil dari API kita masukkan ke dalam listAr
20        this.setState({
21          listArtikel: jsonHasilAmbilDariAPI
22        })
23      })
24  }
```

The terminal window at the bottom shows the output of the 'npm run build' command, indicating a successful build. A separate PowerShell window is open, showing the output of the 'json-server' command, which is running a Fake API JSON Server on port 3000. The terminal output includes the following commands and their results:

```
GET /ws 404 8.569 ms - 2
GET /ws 404 11.144 ms - 2
GET /ws 404 13.497 ms - 2
GET /ws 404 0.618 ms - 2
GET /ws 404 15.528 ms - 2
GET /ws 404 15.559 ms - 2
GET /ws 404 12.455 ms - 2
GET /ws 404 5.318 ms - 2
GET /ws 404 8.654 ms - 2
GET /ws 404 12.818 ms - 2
GET /ws 404 10.559 ms - 2
GET /posts 304 20.859 ms - -
GET /%PUBLIC_URL%/favicon.ico 404 3.930 ms - 2
GET /%PUBLIC_URL%/manifest.json 404 1.515 ms - 2
GET /%PUBLIC_URL%/favicon.ico 404 2.935 ms - 2
GET /%PUBLIC_URL%/manifest.json 404 16.002 ms - 2
GET /%PUBLIC_URL%/favicon.ico 404 1.106 ms - 2
GET /%PUBLIC_URL%/manifest.json 404 4.047 ms - 2
GET /posts?_sort=id&_order=desc 200 28.596 ms - -
GET /posts?_sort=id&_order=desc 200 18.962 ms - -
POST /posts 201 52.198 ms - 83
GET /posts?_sort=id&_order=desc 200 27.261 ms - -
GET /posts?_sort=id&_order=desc 200 23.102 ms - -
GET /posts?_sort=id&_order=desc 304 24.490 ms - -
DELETE /posts/1648724651085 200 40.257 ms - 2
GET /posts?_sort=id&_order=desc 200 20.329 ms - -
```

Running Fake API JSON  
SERVER →




## 2. WEBSITE VIEW


The screenshot shows a web browser at <http://localhost:3001>. On the left is a green sidebar with the text "Sidebar". The main content area has a form for student registration with the following fields:

- Student Name:
- NIM:
- PHONE NUMBER:
- STUDY PROGRAM:
- YEAR OF CLASS:
- STATUS:

Below the form is a blue button labeled "Simpan". Underneath is a section titled "Daftar Student Polinema" containing a list of students. The first student entry is:

-  **Student 4**  
194172004  
0872456371  
Studi Program Informatics Engineering  
Tahun Ajaran 2016  
**GRADUATED**

The second student entry is partially visible:



-  **Student 3**  
194172003

## 3. TEST INPUTING VALUE

The screenshot shows the same web browser at <http://localhost:3001>. The registration form now contains the following test input values:

- Student Name:
- NIM:
- PHONE NUMBER:
- STUDY PROGRAM:
- YEAR OF CLASS:
- STATUS:

The "Simpan" button is still present. The "Daftar Student Polinema" section now shows the updated list of students:

-  **Rajendra Rakha Arya Prabaswara**  
1941720080  
08772621  
Studi Program Informatics Engineering  
Tahun Ajaran 2019  
**ACTIVE**
-  **Student 4**  
194172004



## 4. TEST DELETING VALUE

### BEFORE

Student Name: Rajendra Rakha Arya Prabaswara  
NIM: 1941720080  
PHONE NUMBER: 08772621  
STUDY PROGRAM: Informatics Engineering  
YEAR OF CLASS: 2019  
STATUS: ACTIVE

**Simpan**

### Daftar Student Polinema

	<b>Rajendra Rakha Arya Prabaswara</b> 1941720080 08772621 Studi Program Informatics Engineering Tahun Ajaran 2019 <b>ACTIVE</b> <b>Hapus</b>
	<b>Student 4</b> 194172004

### AFTER

Student Name: Rajendra Rakha Arya Prabaswara  
NIM: 1941720080  
PHONE NUMBER: 08772621  
STUDY PROGRAM: Informatics Engineering  
YEAR OF CLASS: 2019  
STATUS: ACTIVE

**Simpan**

### Daftar Student Polinema

	<b>Student 4</b> 194172004 0872456371 Studi Program Informatics Engineering Tahun Ajaran 2016 <b>GRADUATED</b> <b>Hapus</b>
	<b>Student 3</b> 194172003



## **FULL PROGRAM**

VIEW ON RAR

<https://github.com/Rjndrkha/Pemrograman-Framework>