

## ASSIGNMENT 3 - A simple RESTFUL API using React.js, Database Creation, and Creating Index

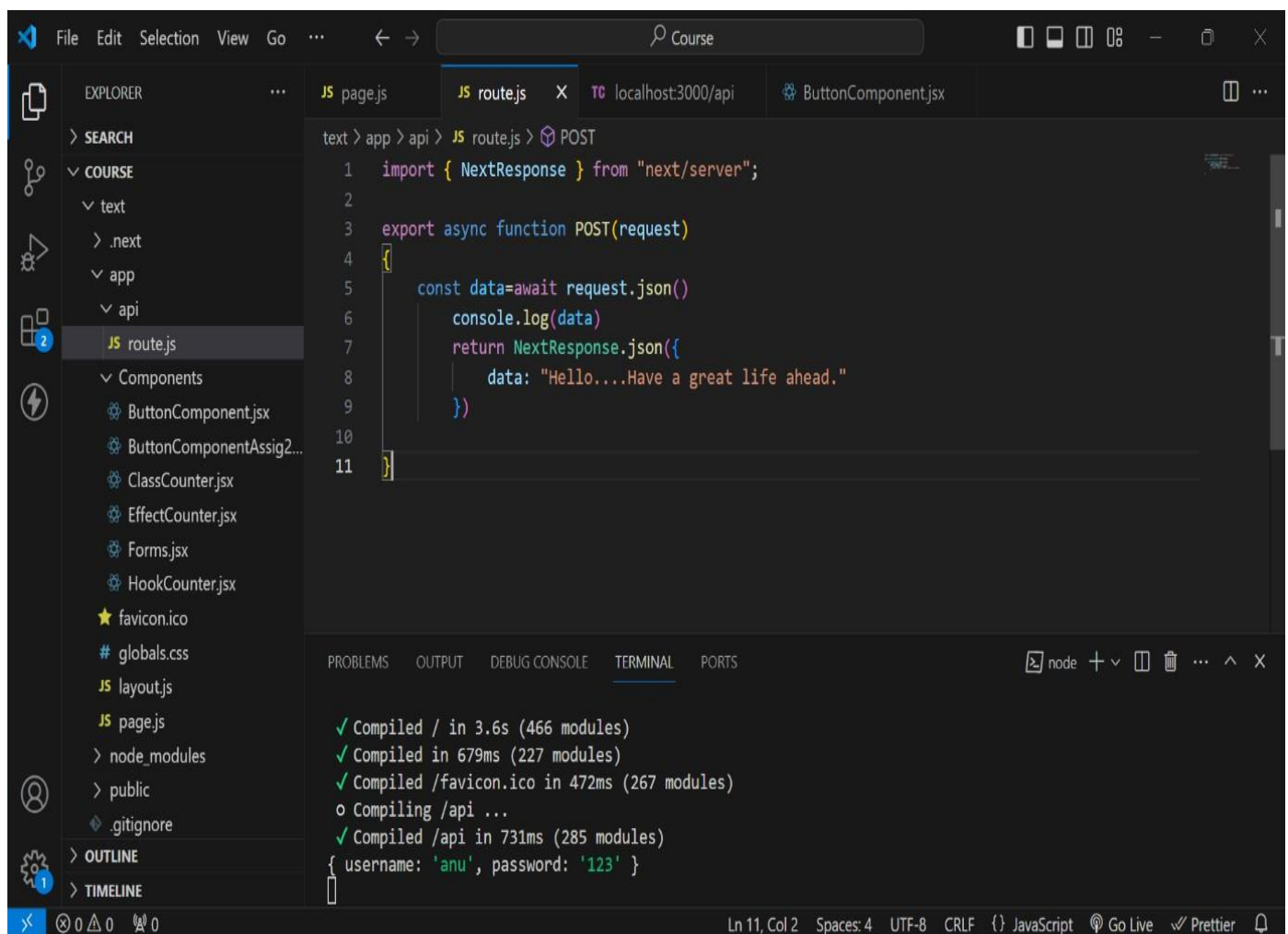
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### ➤ RestFul API code



The screenshot shows the Visual Studio Code editor with a project structure on the left. The file explorer shows a directory named 'api' containing 'route.js'. The main editor window displays the content of 'route.js', which defines a POST endpoint. The terminal at the bottom shows the output of the application, indicating successful compilation and execution of the API route.

```
text > app > api > JS route.js > POST
1  import { NextResponse } from "next/server";
2
3  export async function POST(request)
4  {
5      const data=await request.json()
6      console.log(data)
7      return NextResponse.json({
8          data: "Hello....Have a great life ahead."
9      })
10 }
11
```

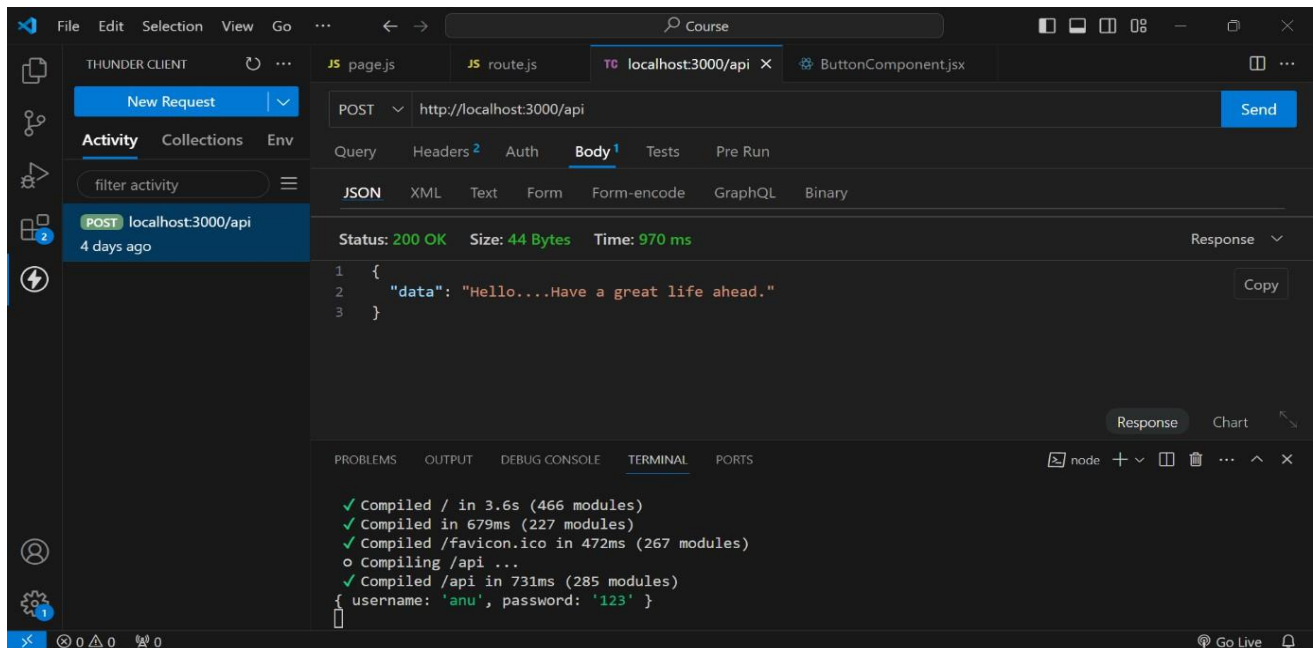
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
node + v ... ^ X
✓ Compiled / in 3.6s (466 modules)
✓ Compiled in 679ms (227 modules)
✓ Compiled /favicon.ico in 472ms (267 modules)
o Compiling /api ...
✓ Compiled /api in 731ms (285 modules)
{ username: 'anu', password: '123' }
```

Ln 11, Col 2 Spaces: 4 UTF-8 CRLF {} JavaScript Go Live Prettier

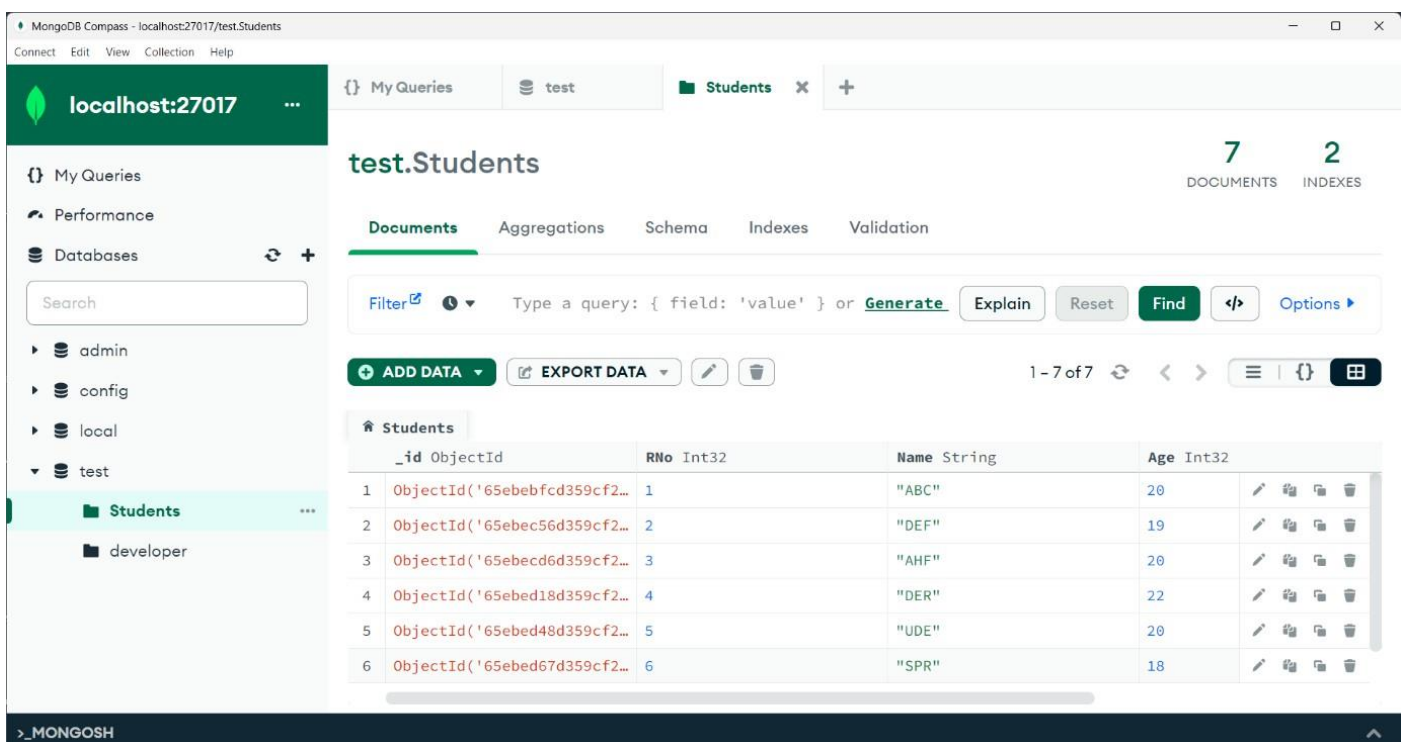
## Rest Output on Thunder Client

This is the output when we create an API using REST.



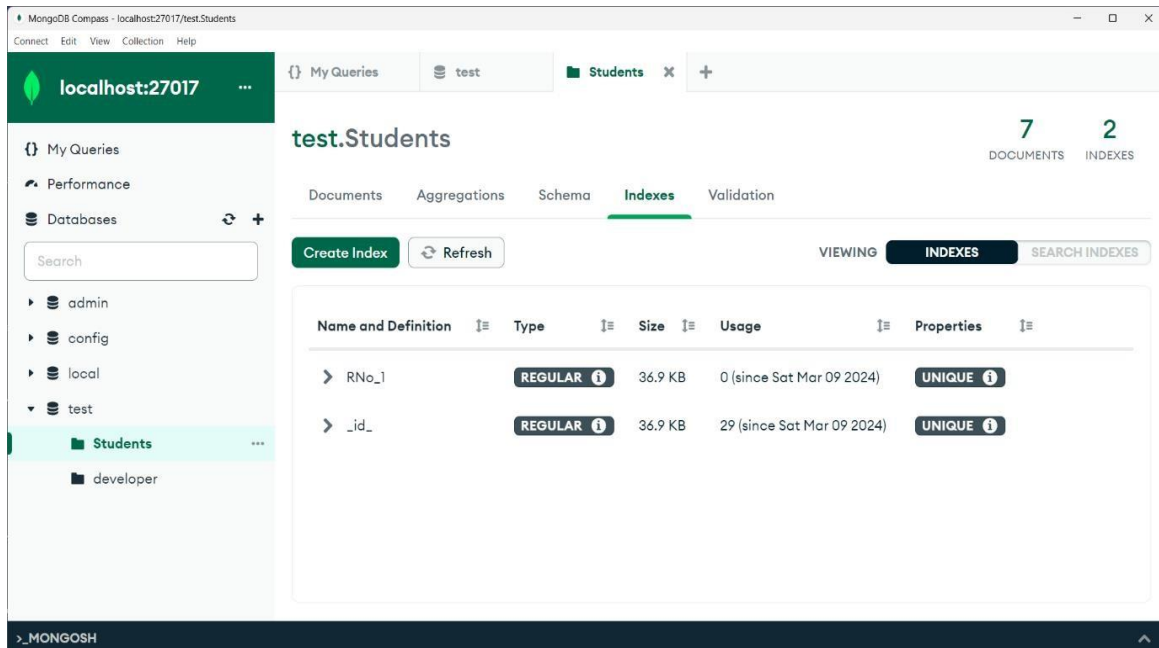
## ➤ DataBase Creation

1. 1<sup>st</sup> we created a database named test
2. In that test we created a collection named Students
3. And finally by using ADD DATA , we added data of the students like rno, name, age.



## ➤ Indexing Creation

As rno is the unique attribute through which we identify a student uniquely. So, here I created an index based on rno. And assigned unique key to it.



## ➤ Indexing usage

As we gave Rno as unique, If we try to insert a duplicate document that is existed it shows an error like.. duplicate collection.

