

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

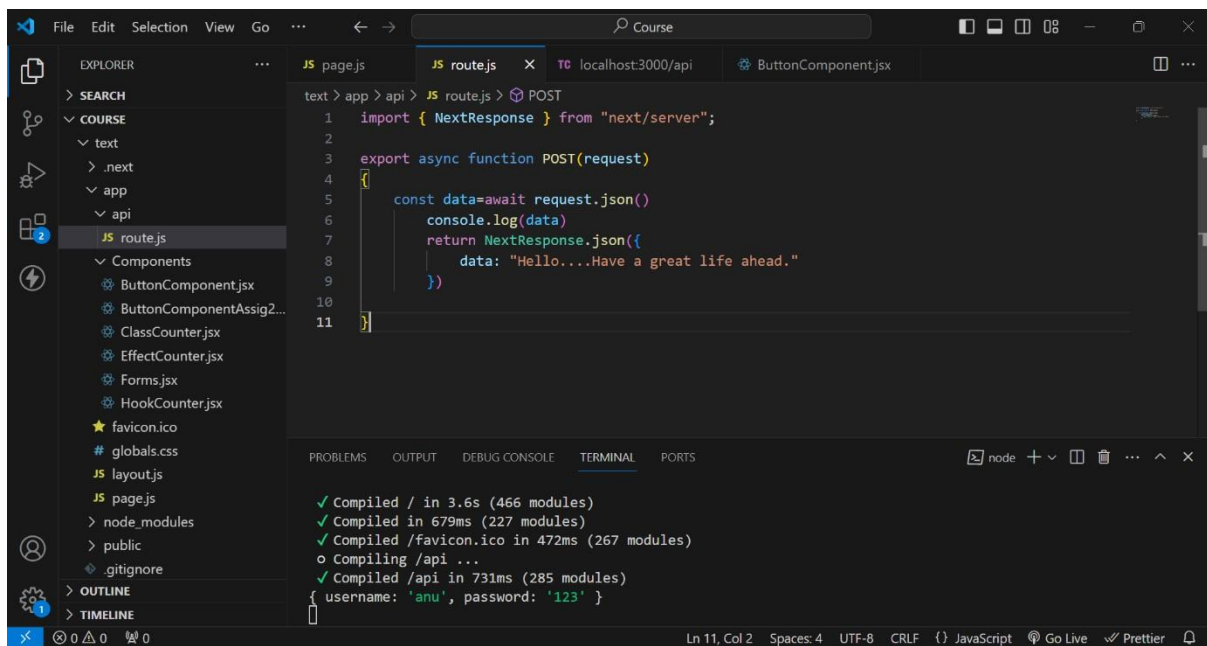
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RESTful API code



The screenshot shows a VS Code editor with a project structure on the left. The file explorer shows a directory named 'api' containing a 'route.js' file. The 'route.js' file is open in the editor, showing a POST endpoint. The code in 'route.js' is as follows:

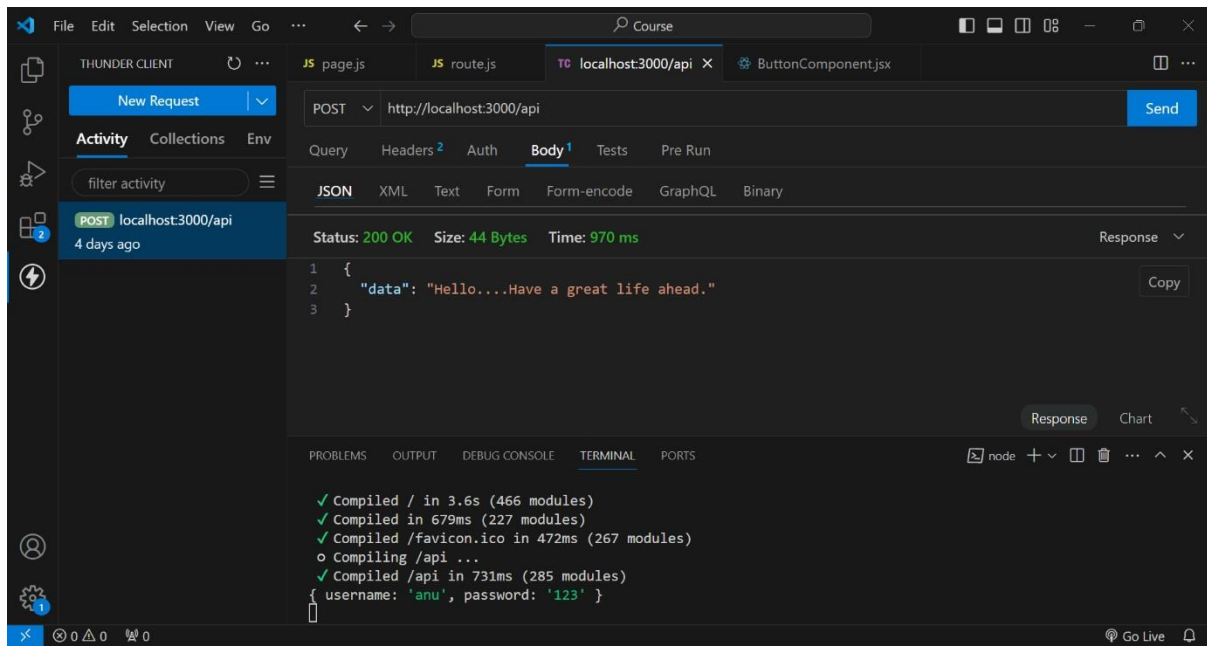
```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request)
4 {
5   const data=await request.json()
6   console.log(data)
7   return NextResponse.json({
8     data: "Hello....Have a great life ahead."
9   })
10 }
11
```

The terminal at the bottom shows the output of the API call:

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

Rest Output on Thunder Client

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

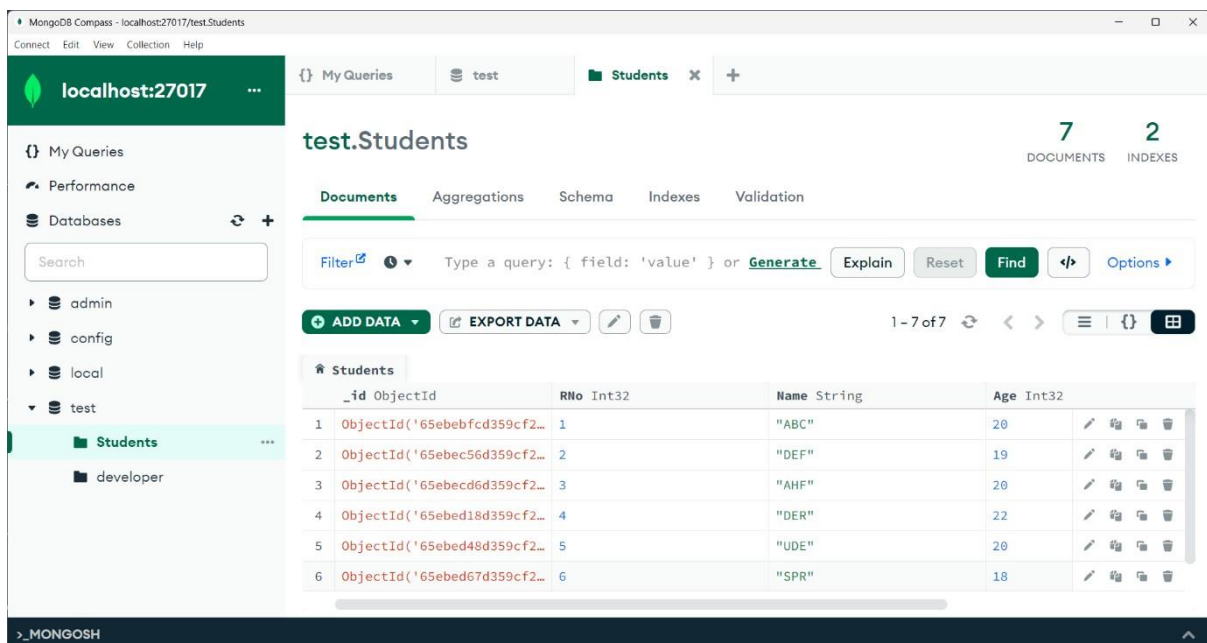


DataBase Creation

1st we created a database named test

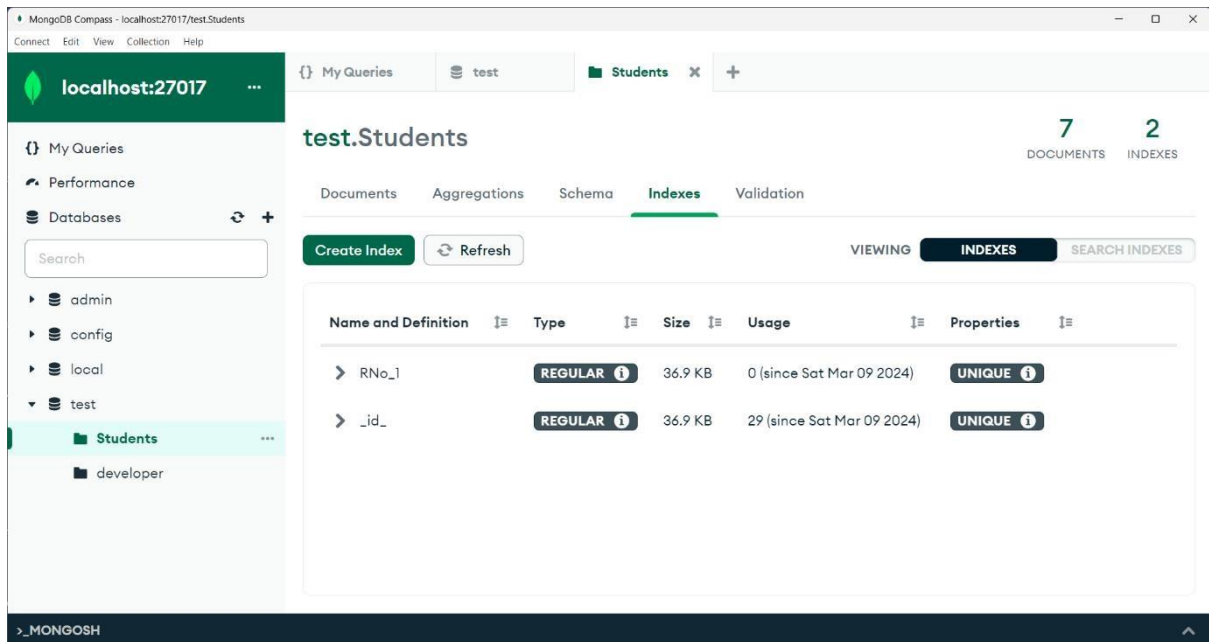
In that test we created a collection named Students

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.

