

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

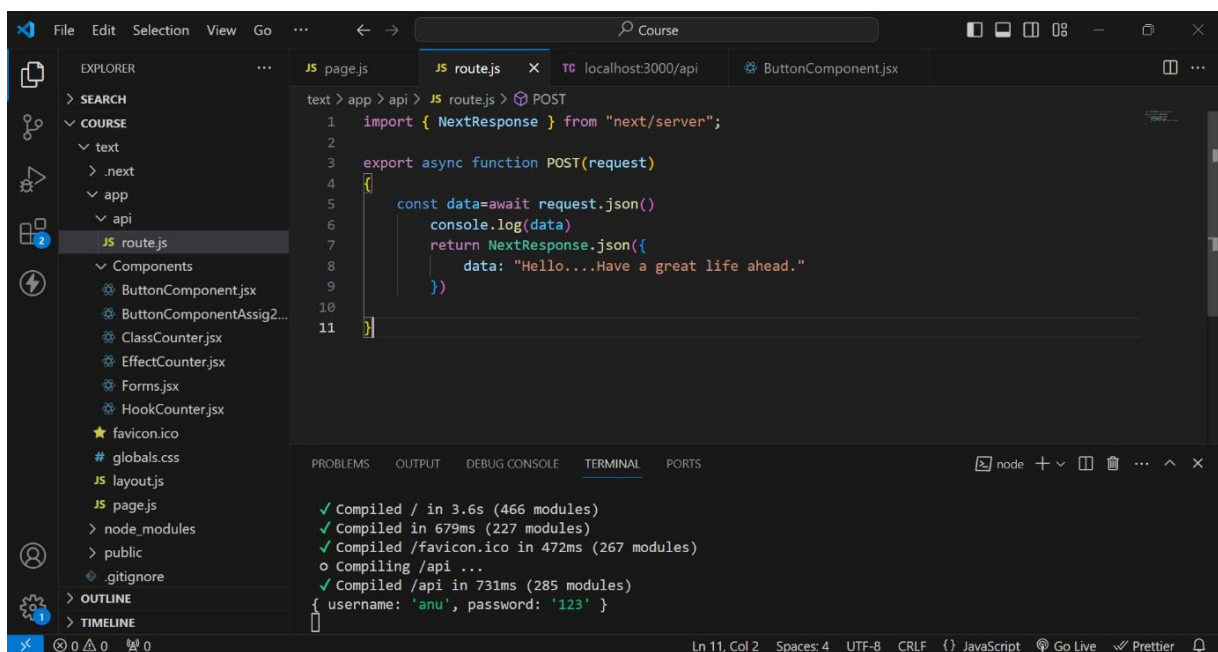
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RestFul API code



The screenshot shows a VS Code editor with a project structure on the left. The file explorer shows a directory named 'api' containing 'route.js'. The main editor displays the content of 'route.js', which is a Next.js route handler. The code imports 'NextResponse' from 'next/server' and defines an async function 'POST' that takes a 'request' object. Inside the function, it logs the request data and returns a JSON response with a message. The terminal at the bottom shows the output of the application, including compilation times and the JSON response returned by the API.

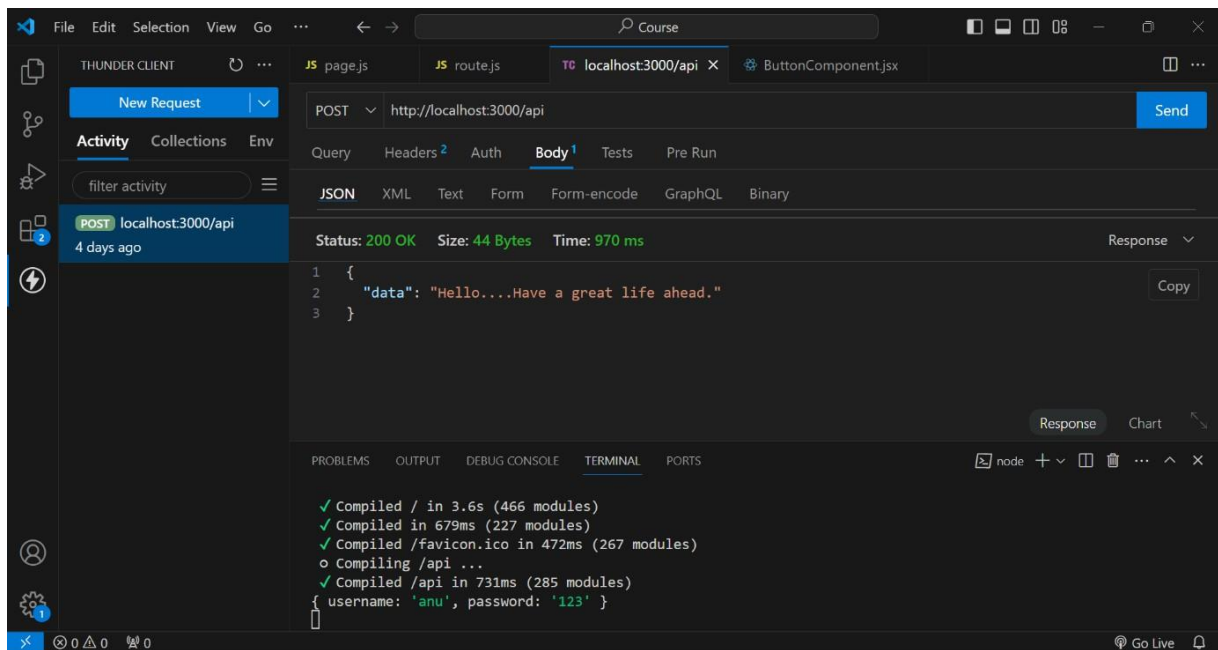
```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request)
4 {
5   const data=await request.json()
6   console.log(data)
7   return NextResponse.json({
8     data: "Hello....Have a great life ahead."
9   })
10 }
11
```

Terminal Output:

```
✓ 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' }
```

Rest Output on ThunderClient

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

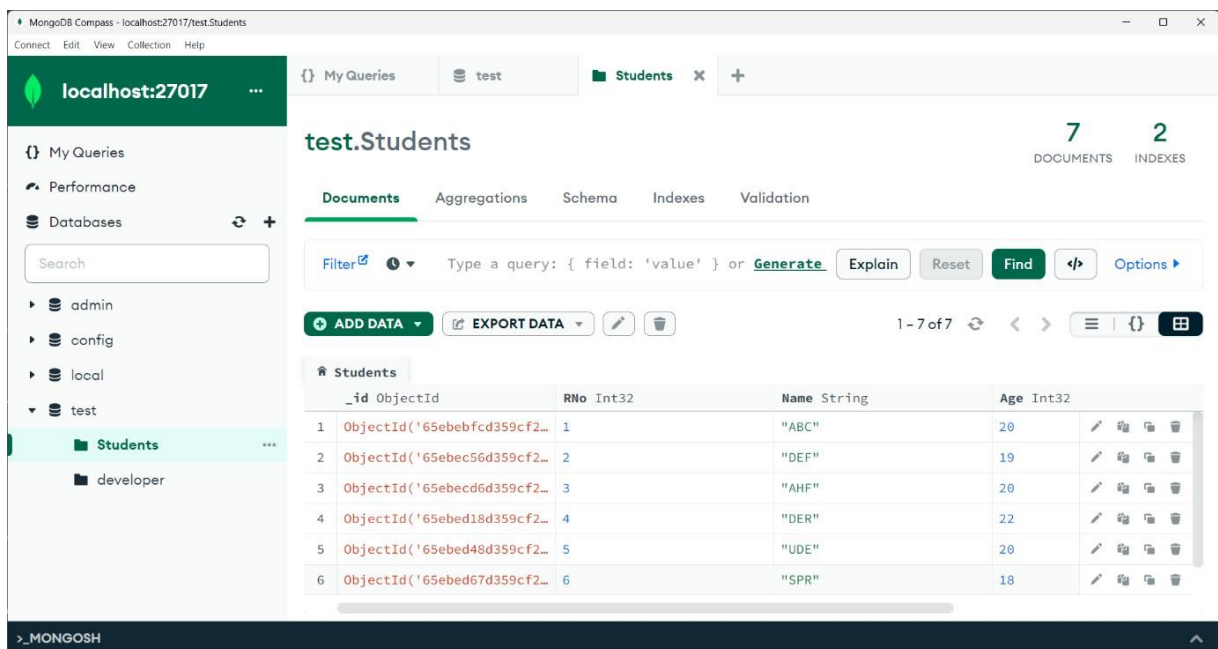


DataBase Creation

1st we created a database named test

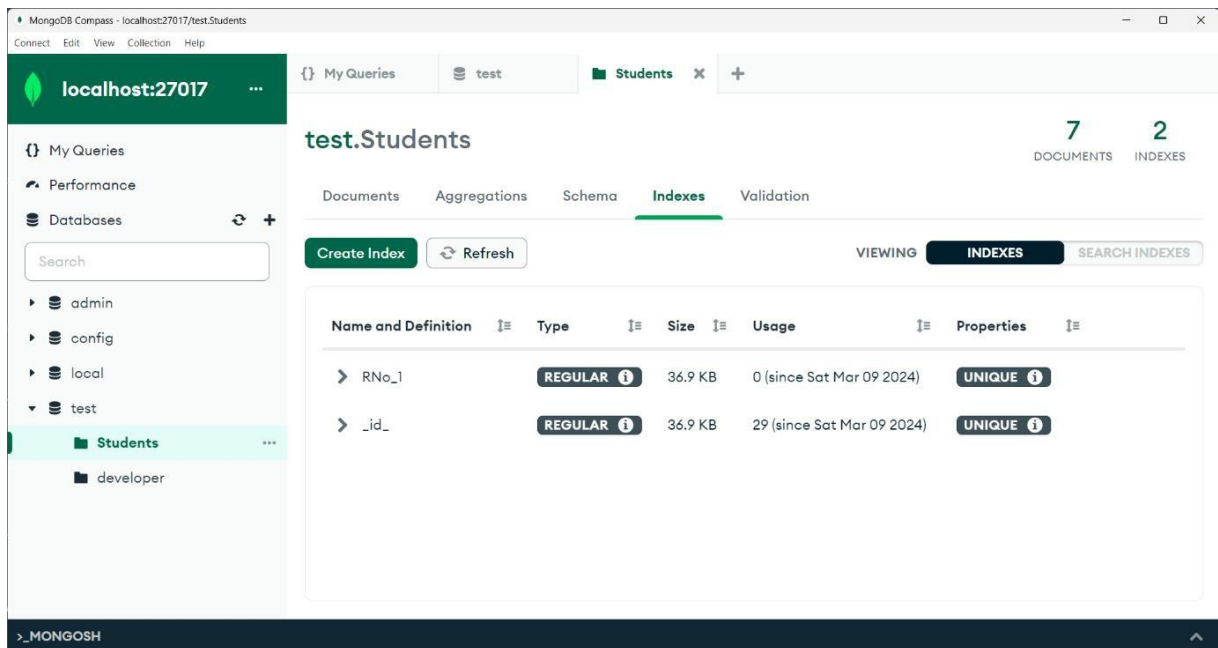
In that test we created a collection named Students

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.

