

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

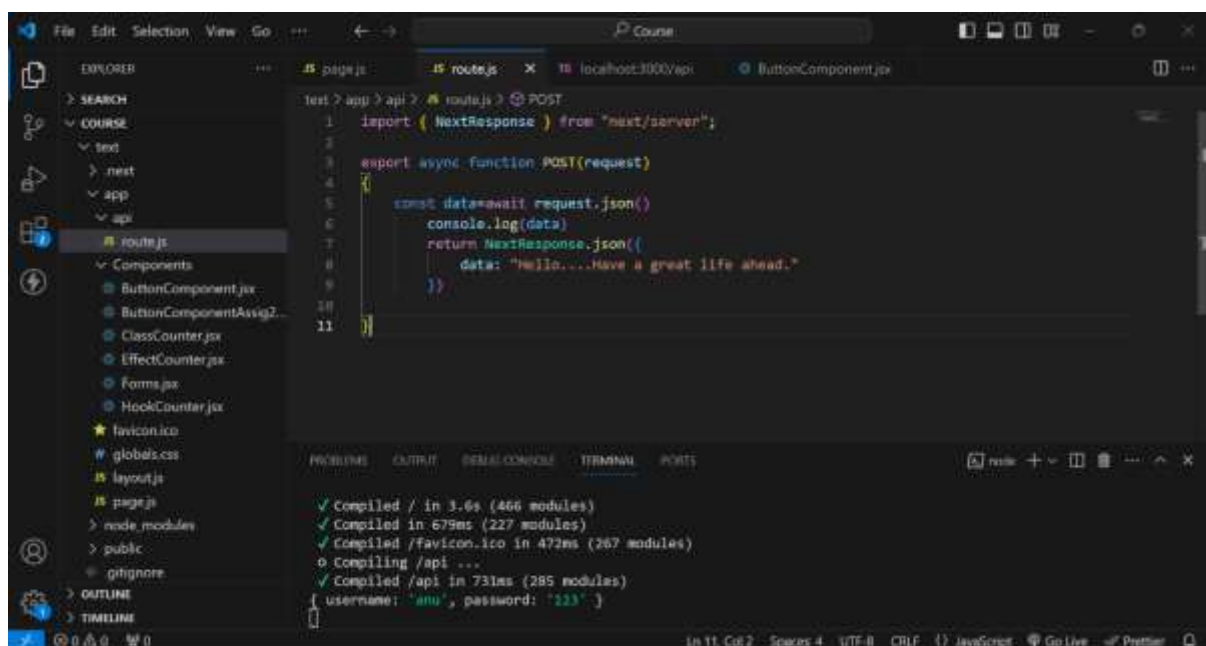
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RestFul API code



The screenshot shows a 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 displays the content of 'route.js', which defines a POST endpoint. The code imports 'NextResponse' from 'next/server' and exports an async function 'POST(request)'. This function awaits 'request.json()', logs the data to the console, and returns a 'NextResponse.json()' object with the message 'Hello....Have a great life ahead.'.

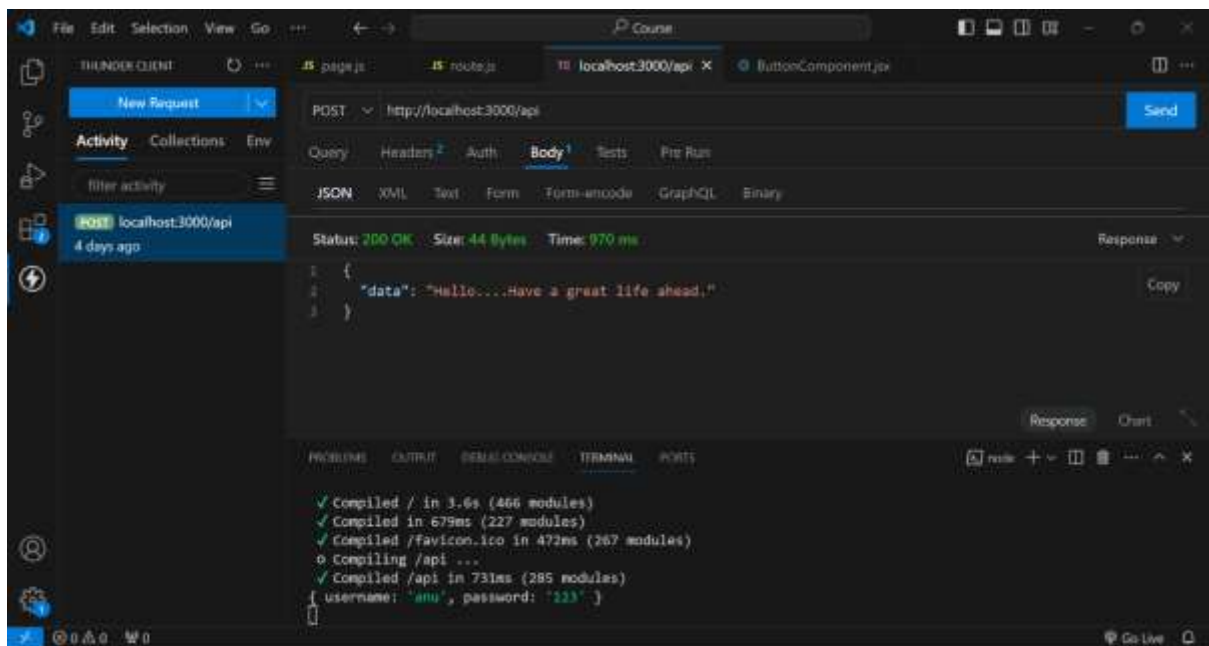
```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request)
4 {
5   const data=await request.json()
6   console.log(data)
7   return NextResponse.json({
8     data: "Hello....Have a great life ahead."
9   })
10 }
11 }
```

Below the editor, the 'TERMINAL' tab is active, showing the output of the application. It displays several compilation messages for various files and a final JSON object representing the API response.

```
✓ 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.

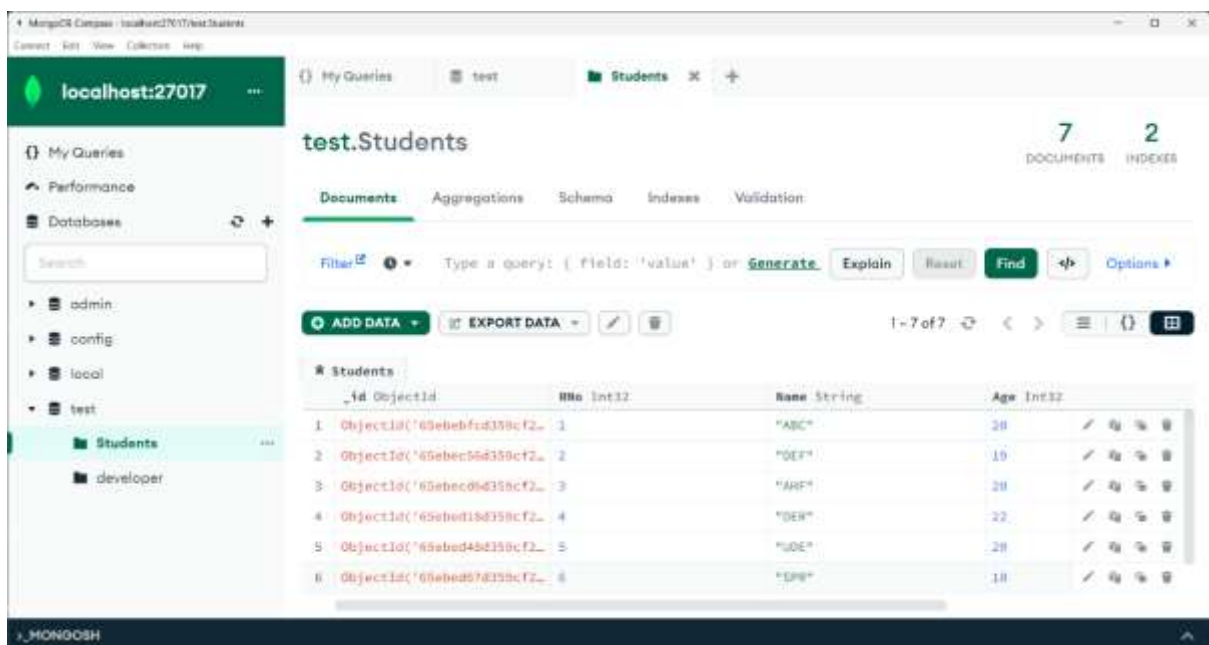


DataBase Creation

1st we created a database named test

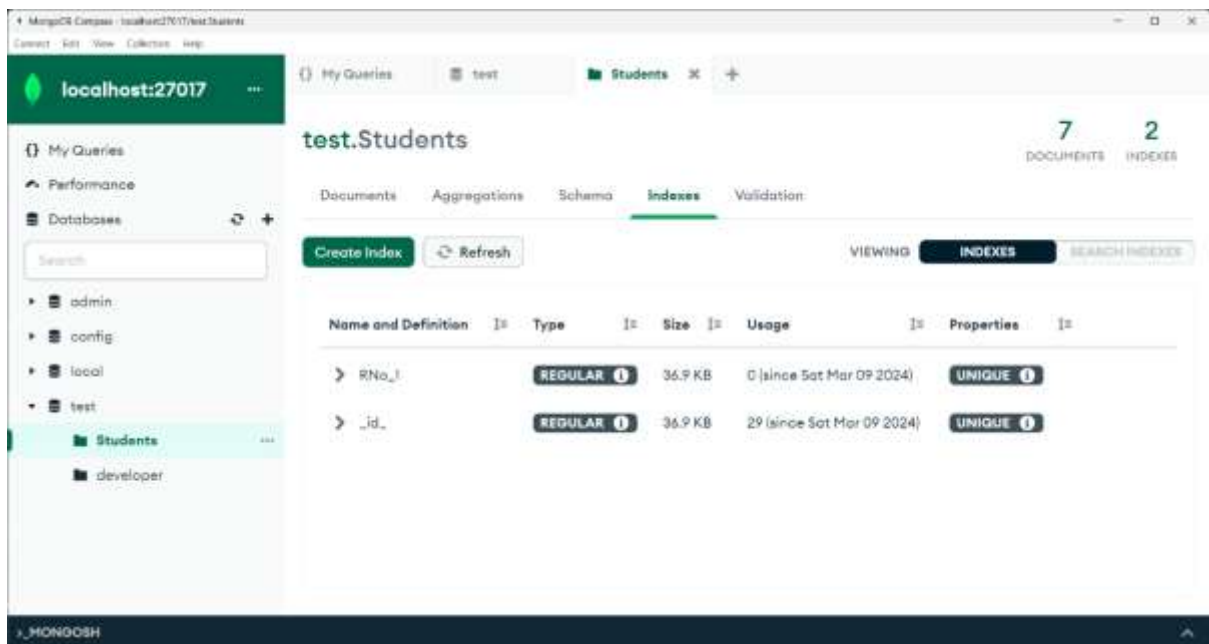
In that test we created a collection named Students

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.

