

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

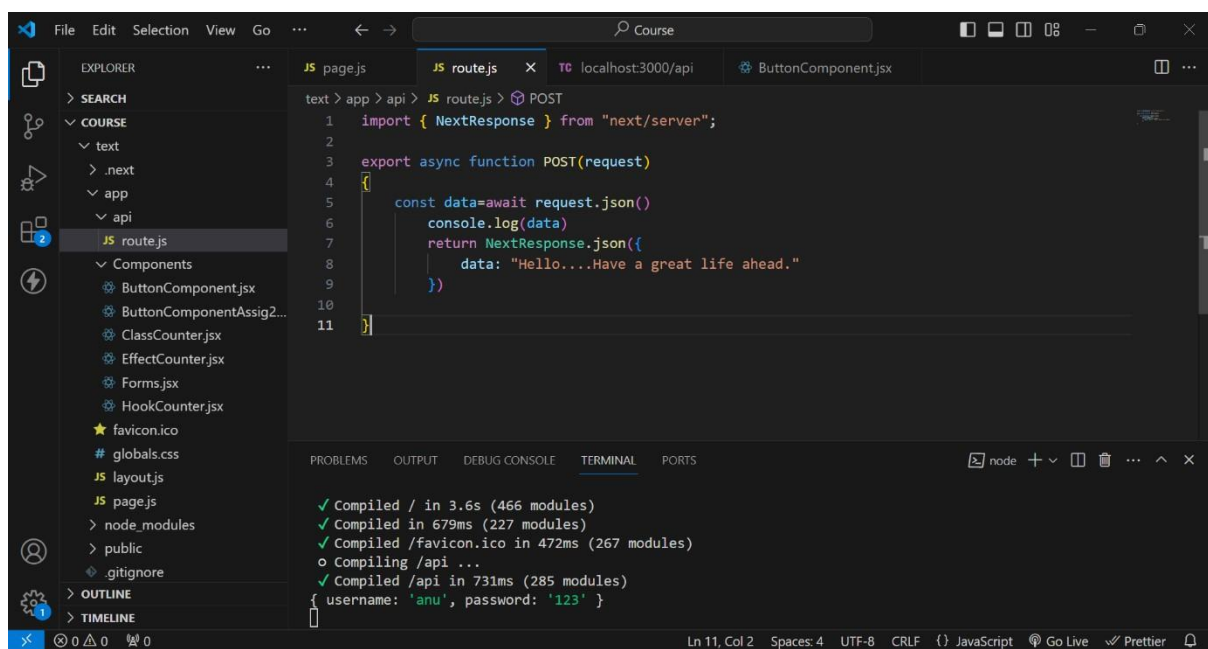
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### Restful API code



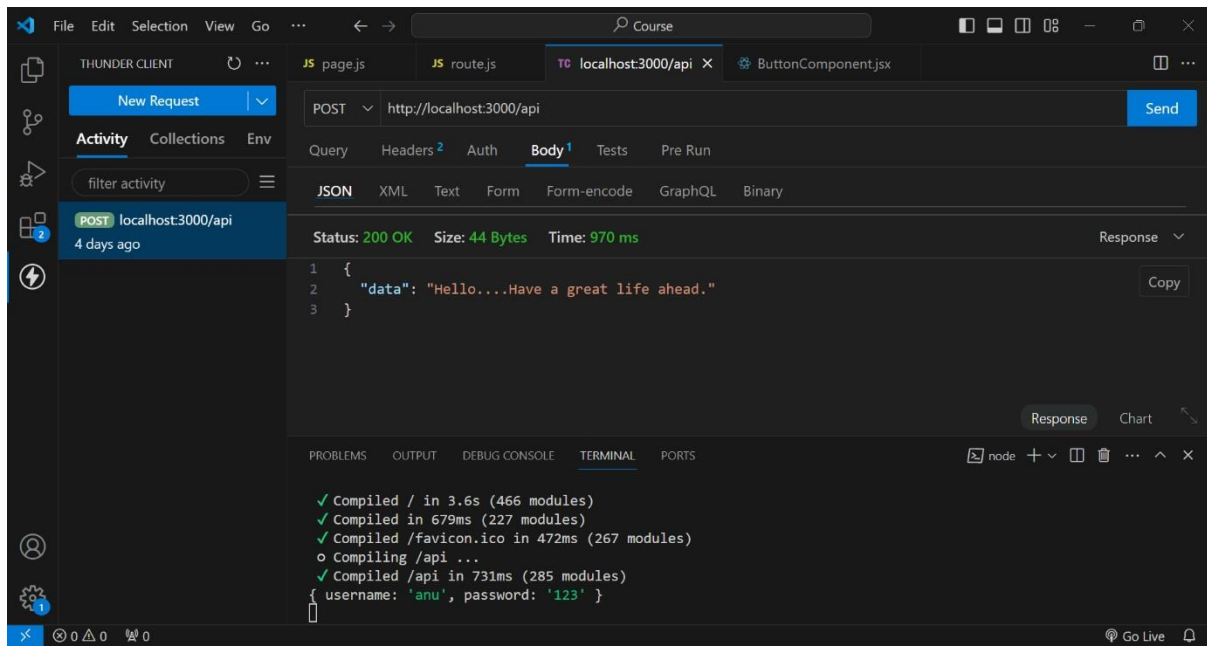
The screenshot shows a VS Code editor with a project named 'Course'. The Explorer sidebar on the left shows the file structure, including 'api' and 'Components' folders. The 'route.js' file is open in the editor, showing a POST endpoint. The code defines a function that returns a JSON response with a message. The terminal at the bottom shows the output of the API call, indicating a successful response with the message 'Hello....Have a great life ahead.' and a status of 200.

```
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 }
```

```
✓ 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 Thunder Client

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

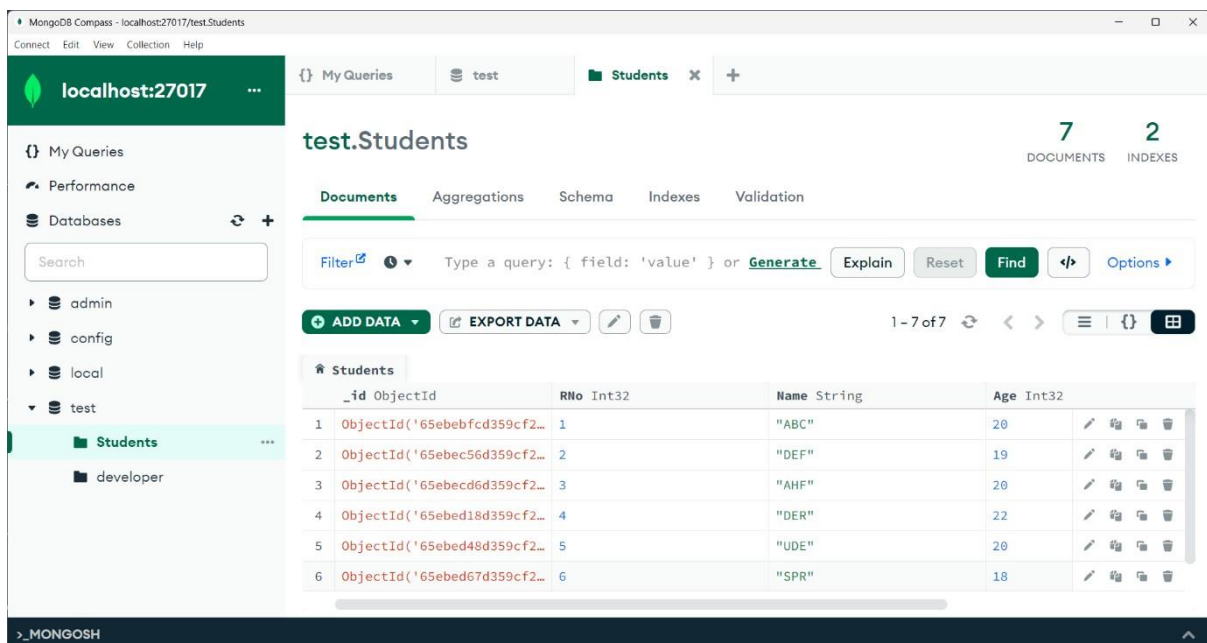


## DataBase Creation

1<sup>st</sup> we created a database named test

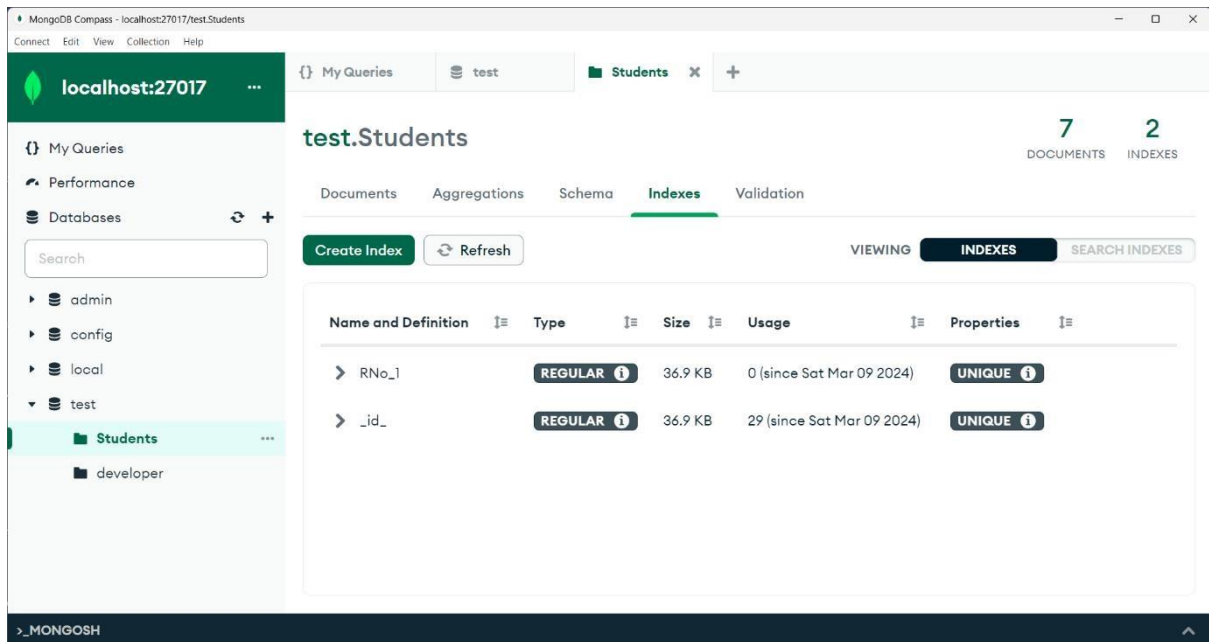
In that test we created a collection named Students

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.

