

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

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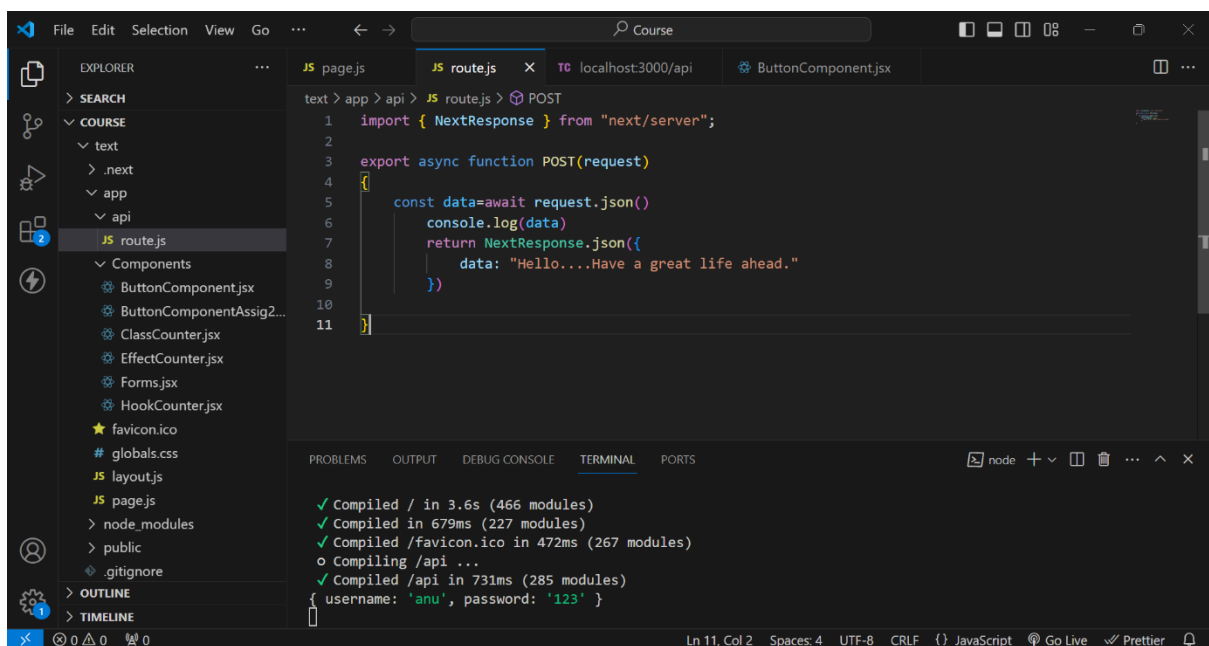
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## RestFul API code



The screenshot shows a Visual Studio Code editor with a project structure on the left. The file explorer shows a directory named 'api' containing 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:

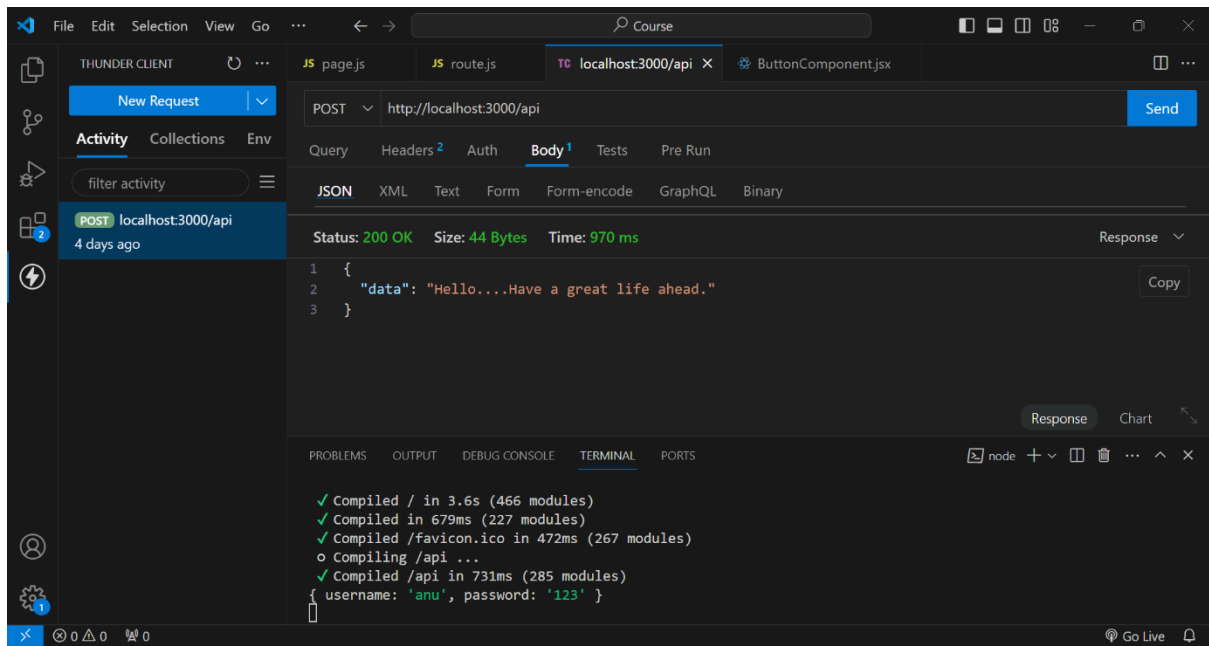
```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request)
4 {
5     const data=await request.json()
6     console.log(data)
7     return NextResponse.json({
8         data: "Hello....Have a great life ahead."
9     })
10 }
11 }
```

The terminal at the bottom shows the output of the application, indicating that the API endpoint is running successfully. The output is as follows:

```
✓ 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.

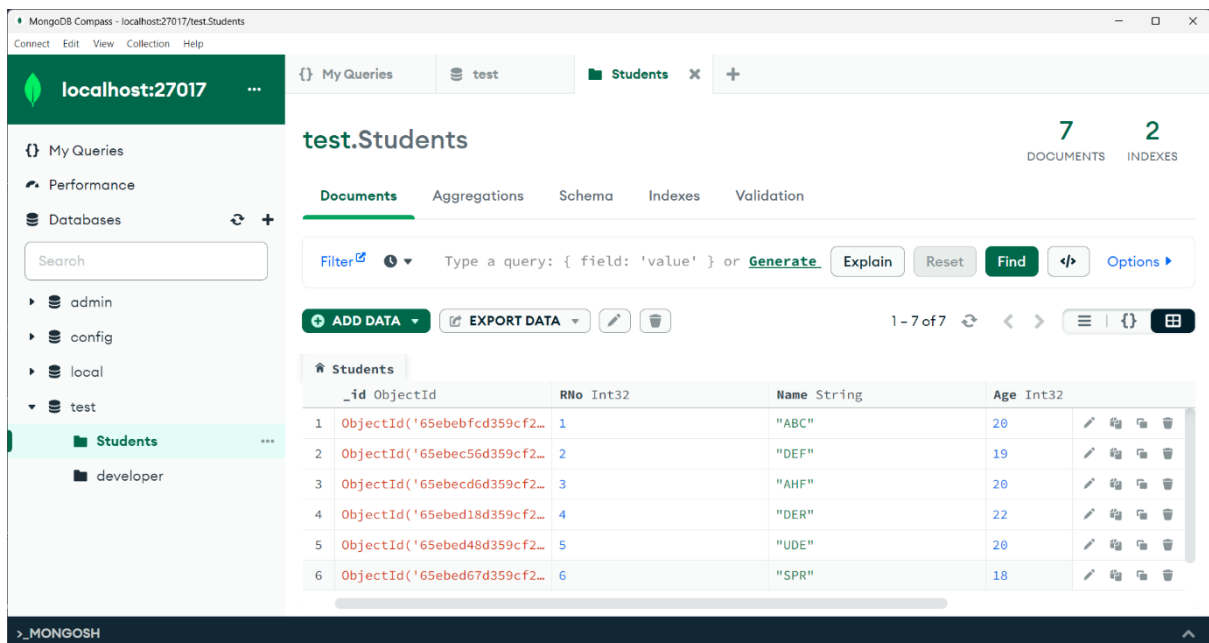


## DataBase Creation

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

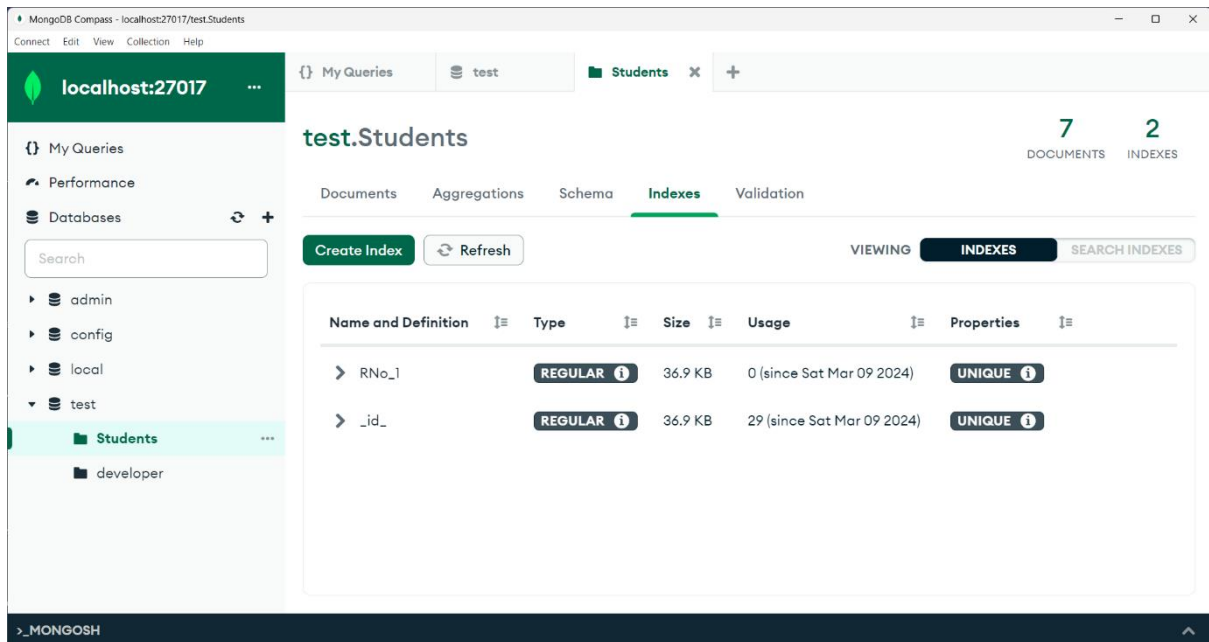
In that test we created a collection named Students

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.

