

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

NAME:

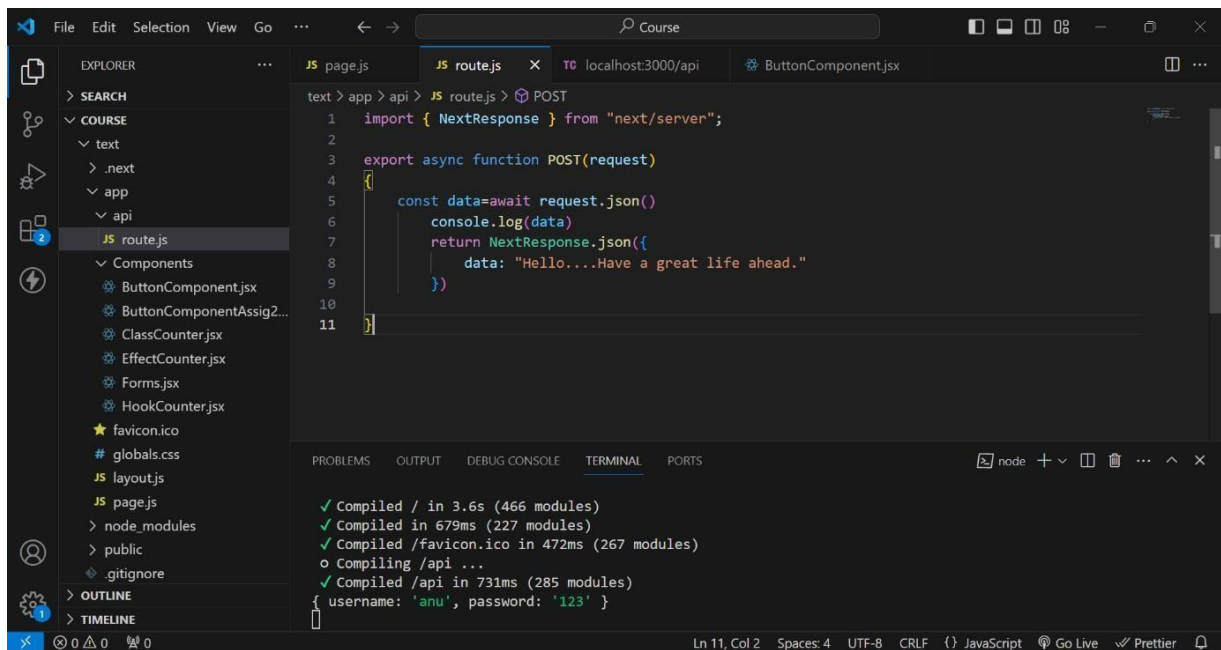
**RAKATI BHUSHANA RAO**

**Roll no:20JQ1A0437**

**E-Mail: bhushanrakati1@gmail.com**

**College: Kakinada institute of technology and science,divili,peddapuram**

## Restful API code



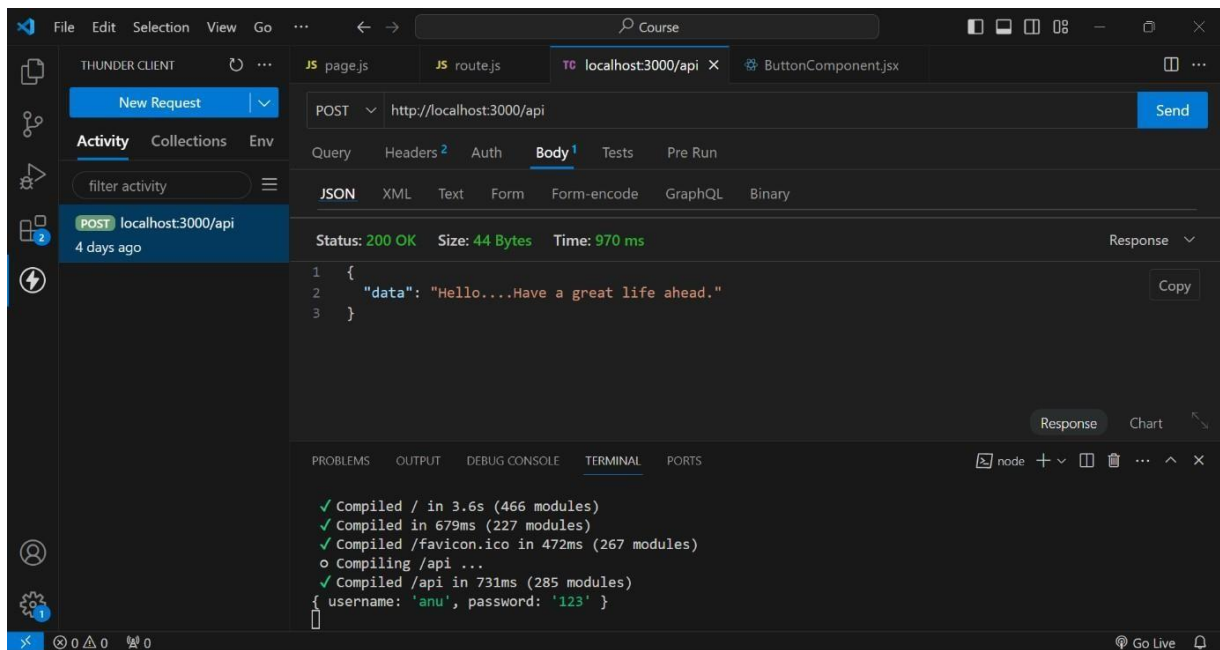
The screenshot shows a VS Code editor with a project structure on the left. The 'api' folder contains a 'route.js' file. The code in 'route.js' defines a POST endpoint that returns a JSON response. The terminal at the bottom shows the output of the API call, which is a JSON object with 'username' and 'password' fields.

```
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)
○ 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.

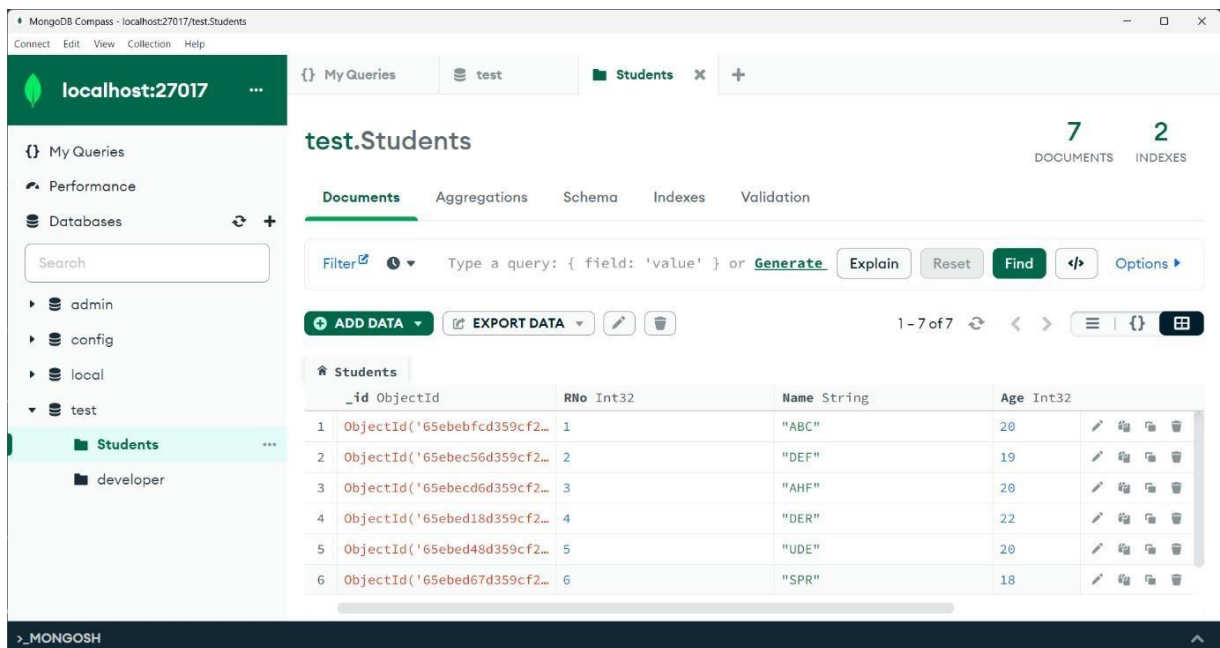


## DataBase Creation

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

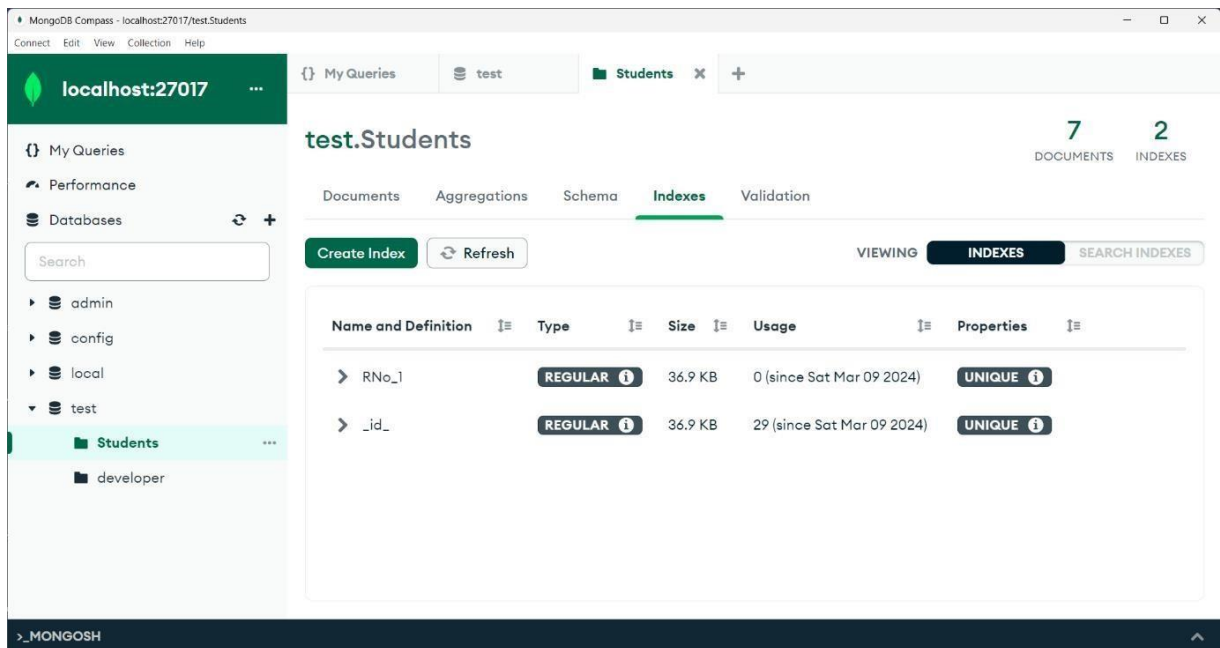
In that test we created a collection named Students

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.

