

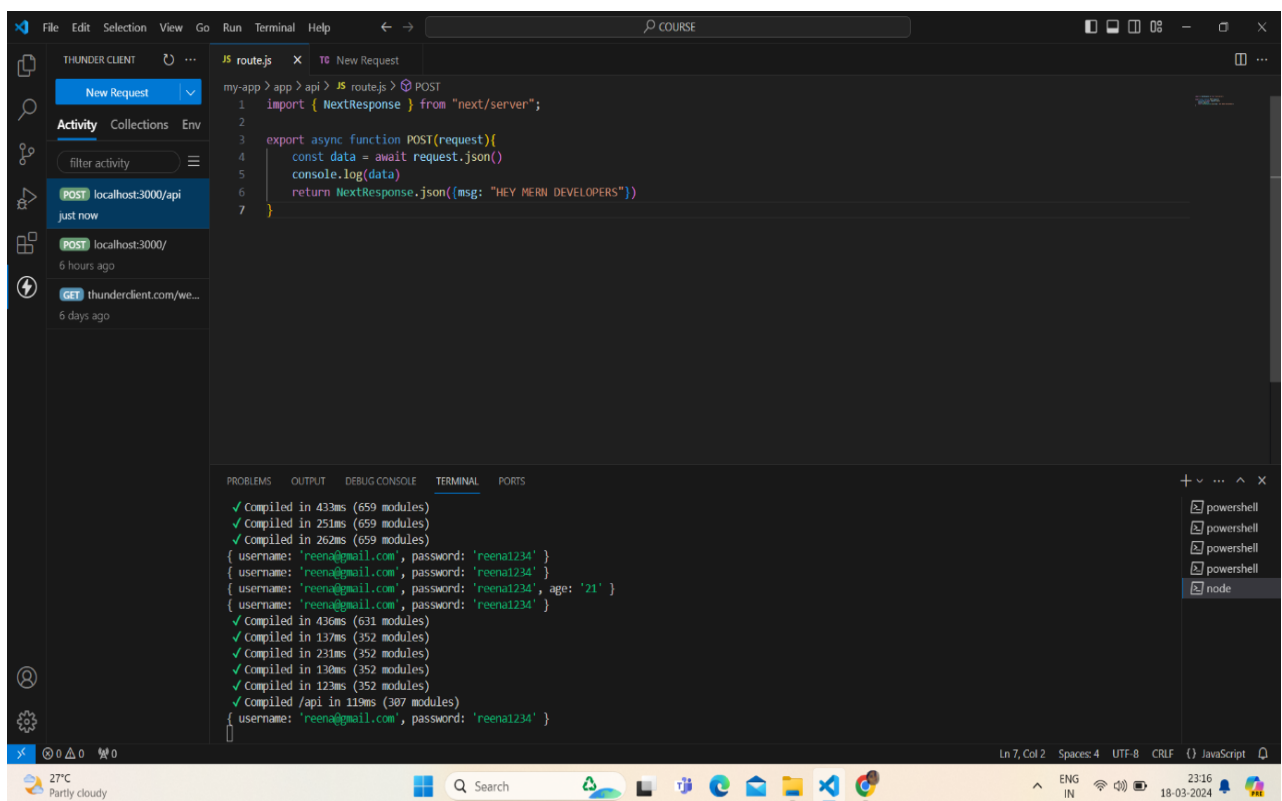
ASSIGNMENT-3

Creating API:

API(Application programmable Interface) is the communication between the backend server and the database. It is the connection between two software by using the protocols. We use Thunder client to connect the api with database.

- Folder COURSE is created .Inside the folder app folder is created.
- Inside app a folder called api is created .inside api the file called route.js is created.
- Install the thunder client extension in visual studio code .
- Write the code in route.js . Run(npm run dev) the code to get the local host.

Route.js code:



The screenshot shows the Visual Studio Code interface. The editor displays the `route.js` file with the following code:

```
1 import { NextResponse } from "next/server";
2
3 export async function POST(request) {
4   const data = await request.json()
5   console.log(data)
6   return NextResponse.json({msg: "HEY MERN DEVELOPERS"})
7 }
```

The left sidebar shows the Thunder Client extension with a list of requests. The bottom panel shows the terminal output, which includes the following logs:

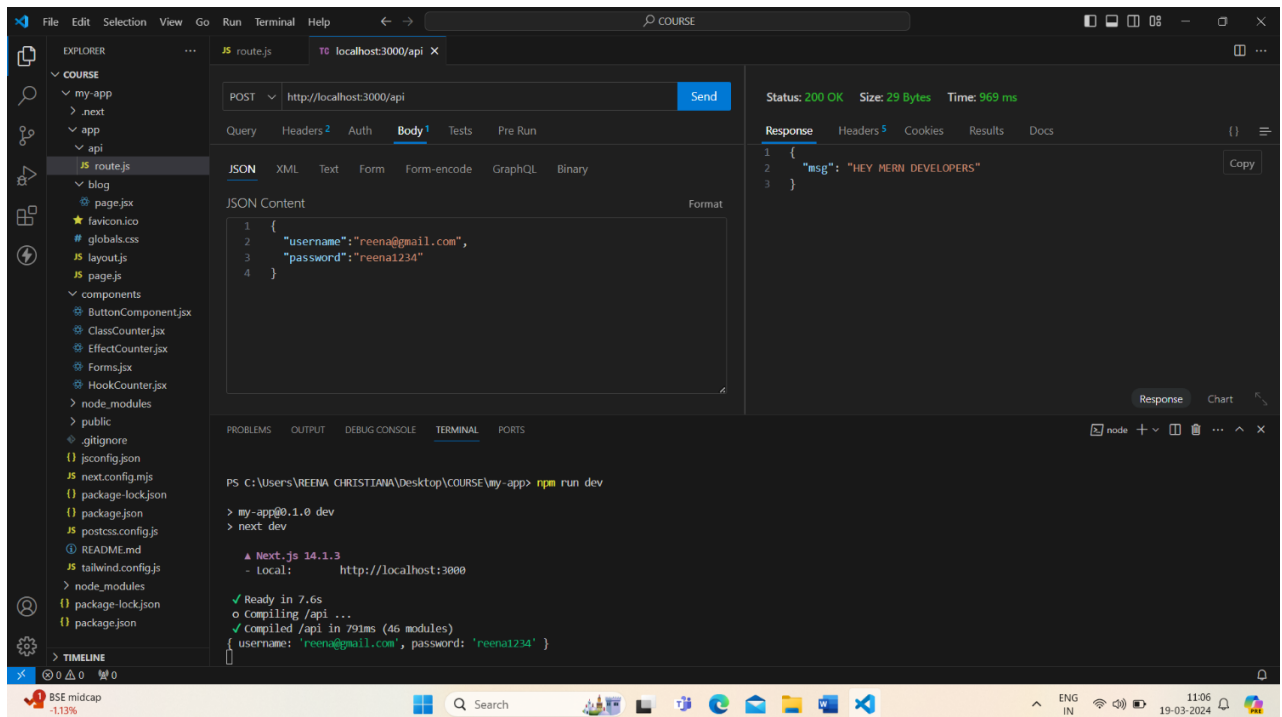
```
✓ Compiled in 433ms (659 modules)
✓ Compiled in 251ms (659 modules)
✓ Compiled in 262ms (659 modules)
{ username: 'reena@gmail.com', password: 'reena1234' }
{ username: 'reena@gmail.com', password: 'reena1234' }
{ username: 'reena@gmail.com', password: 'reena1234', age: '21' }
{ username: 'reena@gmail.com', password: 'reena1234' }
✓ Compiled in 436ms (631 modules)
✓ Compiled in 137ms (352 modules)
✓ Compiled in 231ms (352 modules)
✓ Compiled in 130ms (352 modules)
✓ Compiled in 123ms (352 modules)
✓ Compiled /api in 119ms (387 modules)
{ username: 'reena@gmail.com', password: 'reena1234' }
```

Connecting API through Thunder client :

- After installing thunder client extension in visual studio code , open and click new request .
- Copy the local host link obtained by running route.js.

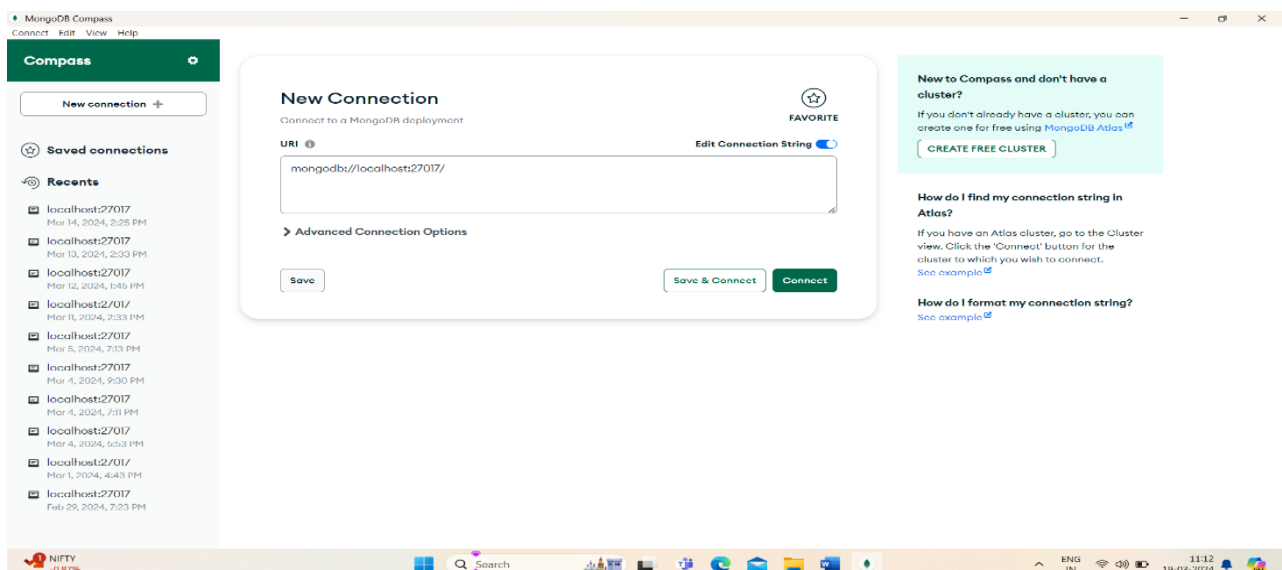
- In thunder client paste the local host link and select whatever the http method you want.
- Select the header as Application\JSON.
- Write the content in the body and now send the request.

Thunder Client Connection:

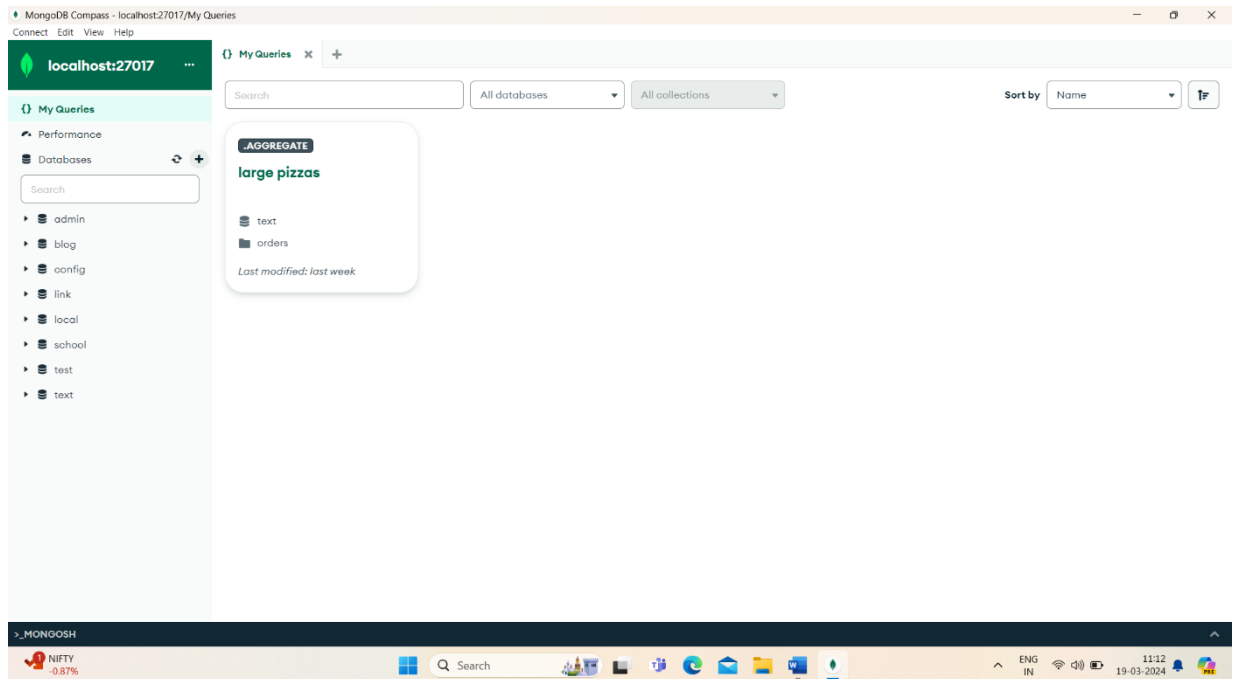


Creating Database in MongoDB:

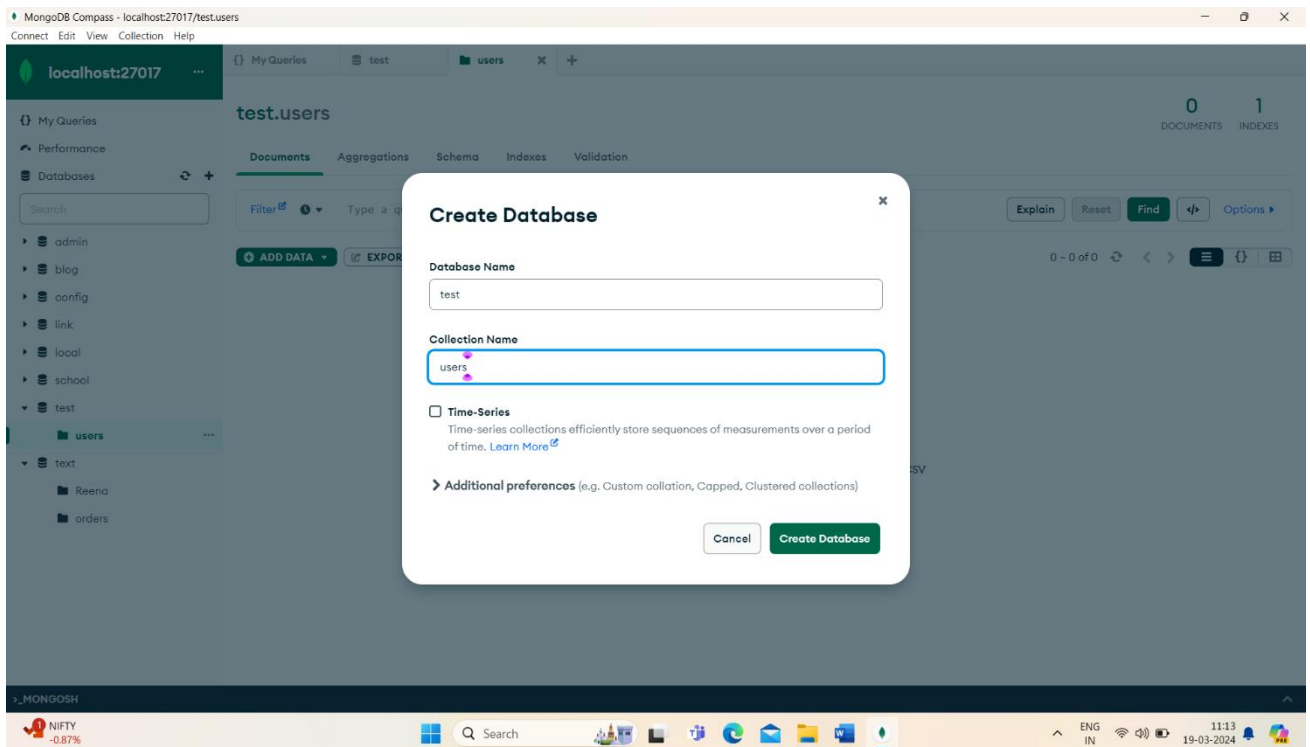
- Install MongoDB .After successful installation open MongoDB and click on connect.



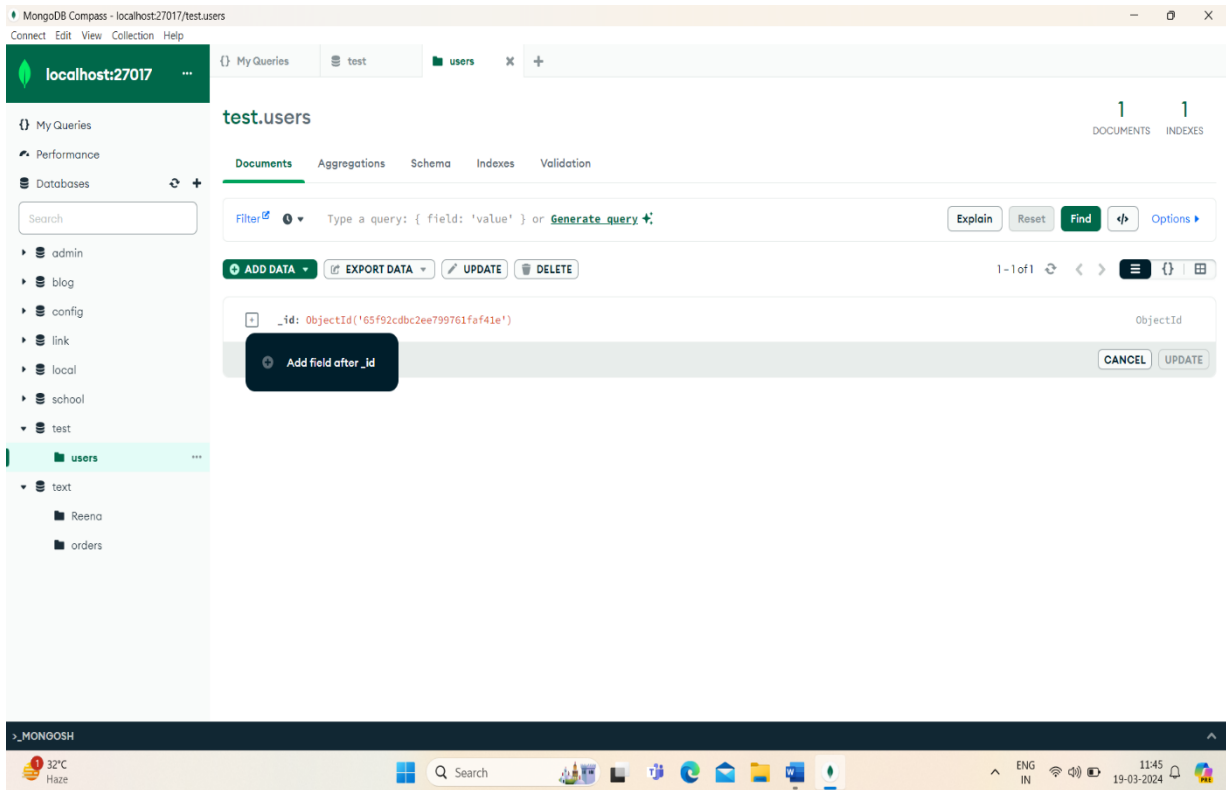
- After clicking connect click on (+) symbol i.e create database at the left corner.



- Give the collection name and database name and create the database.



- Now click on add data and then select insert document and create the document .Click on the pencil icon to edit changes and upload it to the collection.



- Add the fields and add the data into collection. The database is created.

