

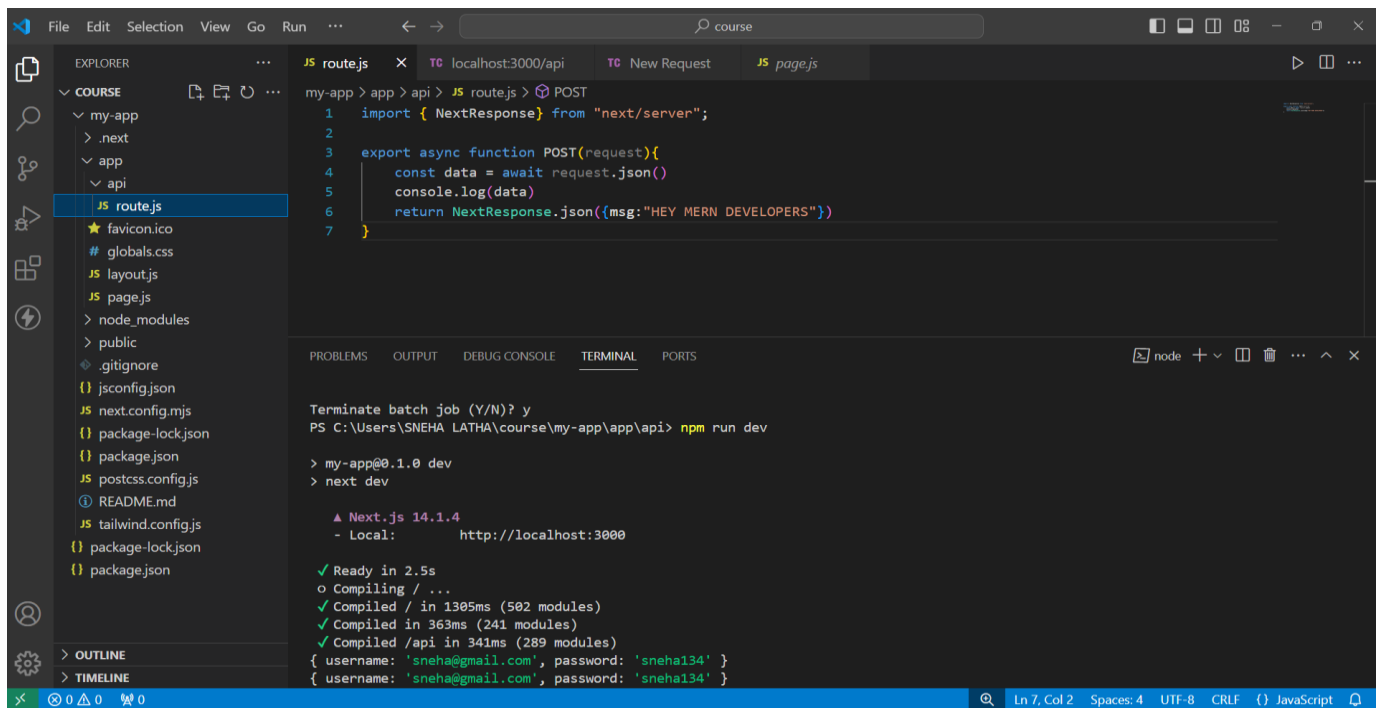
## ASSIGNMENT-3

### 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 host.

### Route.js code:



The screenshot shows the Visual Studio Code interface. On the left, the Explorer panel shows a file tree with a folder named 'COURSE' containing a subfolder 'my-app', which in turn contains a subfolder 'api'. Inside 'api', the file 'route.js' is selected. The main editor area displays the content of 'route.js', which is a Next.js API route handler. The code imports 'NextResponse' from 'next/server' and defines an async function 'POST' that takes a 'request' object, logs the request data, and returns a JSON response with the message 'HEY MERN DEVELOPERS'. Below the editor, the Terminal panel shows the output of running 'npm run dev' in the 'api' directory. The terminal output indicates that the server is ready on 'http://localhost:3000' and shows the compilation times for the application and the 'api' folder.

```
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 }
```

```
Terminate batch job (Y/N)? y
PS C:\Users\SNEHA LATHA\course\my-app\app\api> npm run dev

> my-app@0.1.0 dev
> next dev

  ▲ Next.js 14.1.4
  - Local:      http://localhost:3000

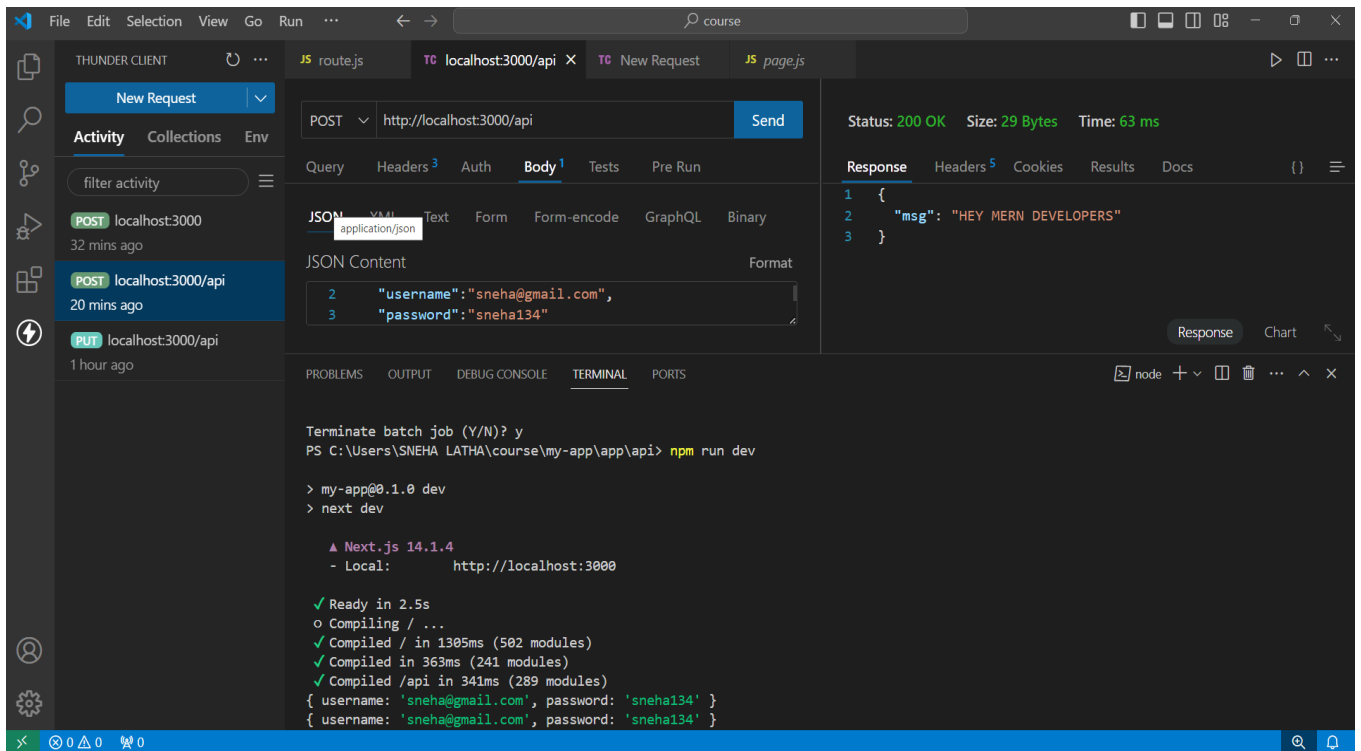
✓ Ready in 2.5s
  ○ Compiling / ...
  ✓ Compiled / in 1305ms (502 modules)
  ✓ Compiled in 363ms (241 modules)
  ✓ Compiled /api in 341ms (289 modules)
  { username: 'sneha@gmail.com', password: 'sneha134' }
  { username: 'sneha@gmail.com', password: 'sneha134' }
```

### 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.

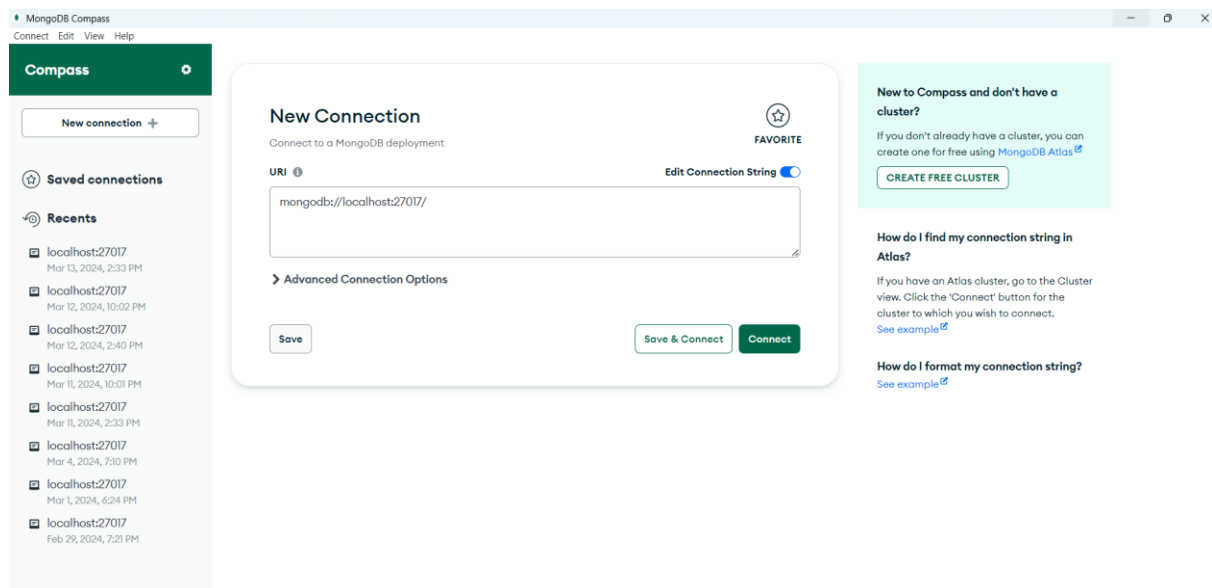
- Write the content in the body and now send the request.

## Thunder Client Connection:

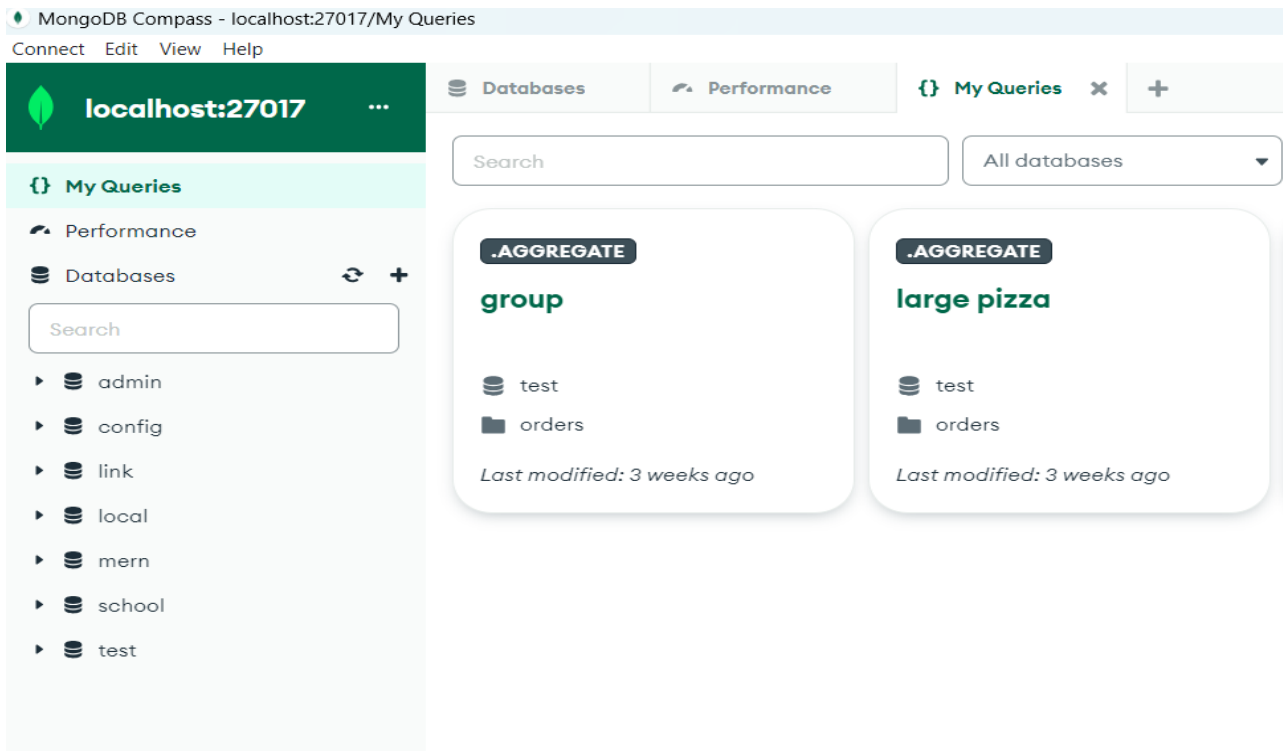


## Creating Database in MongoDB:

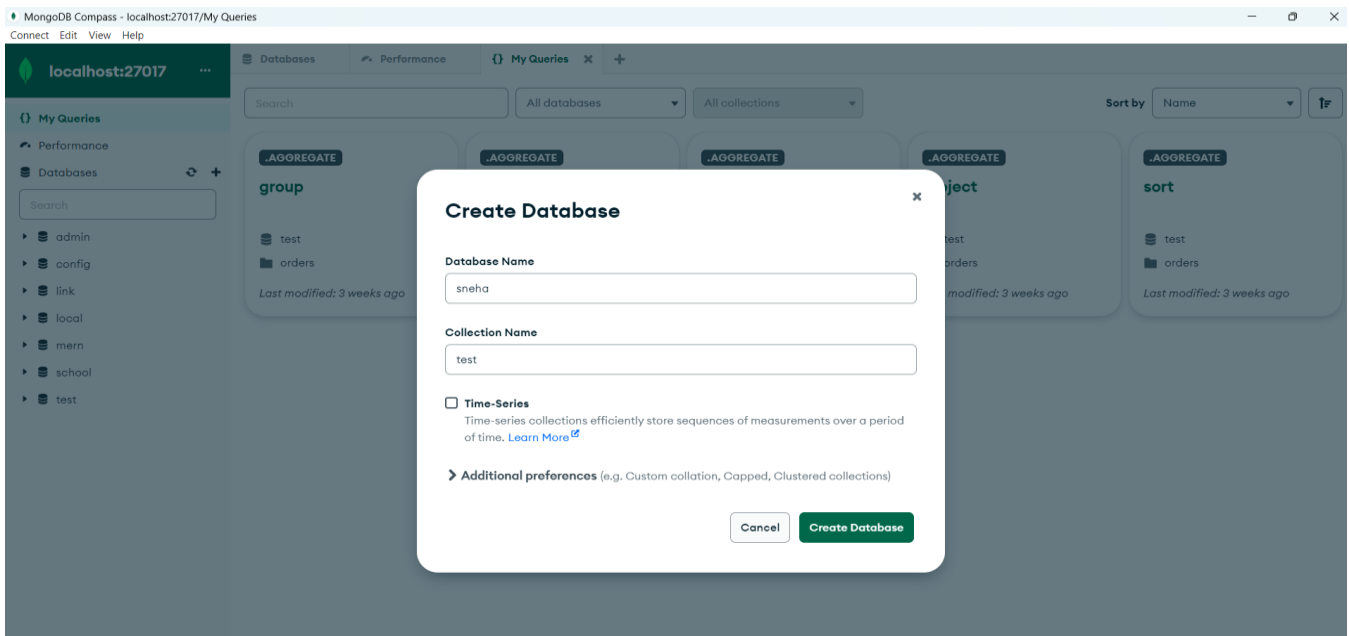
- Install MongoDB .After successful installation open MongoDB and click on connect.



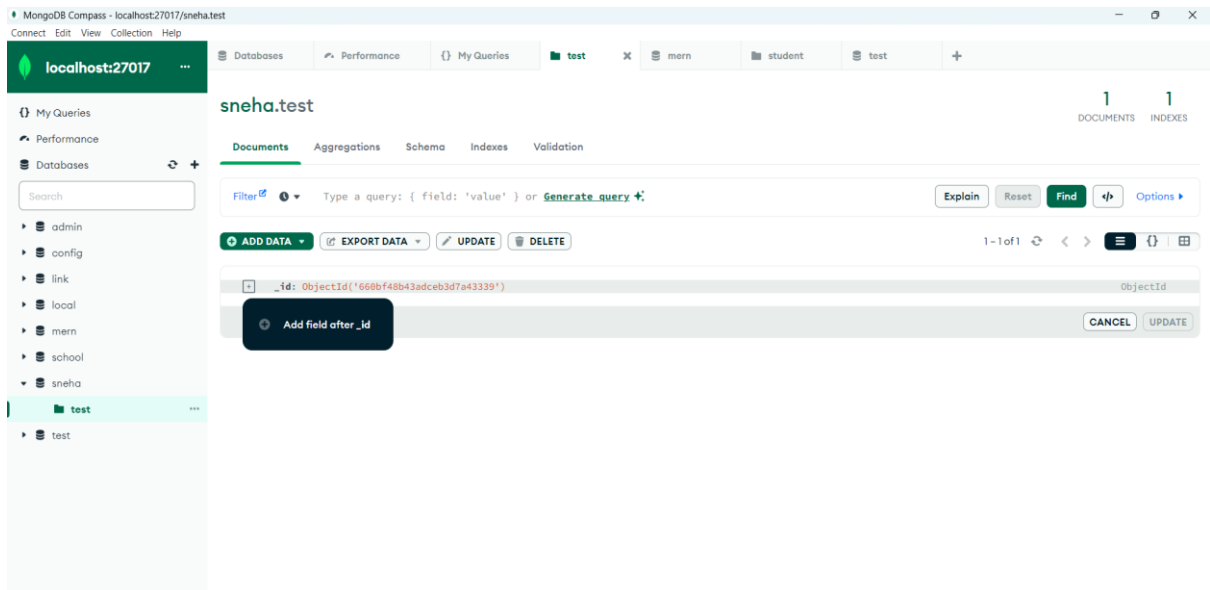
- After clicking connect click on (+) symbol i.e create database at the left corner.



- 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.

