

# Lesson 01 Demo 04 Performing CRUD Methods in JSON DB

**Objective:** To perform create, read, update, and delete operations on the JSON database using different HTTP methods and endpoints via curl

Tools required: Visual Studio Code, json-server, and curl

Prerequisites: Ensure db.json is active and running on localhost:3000 port

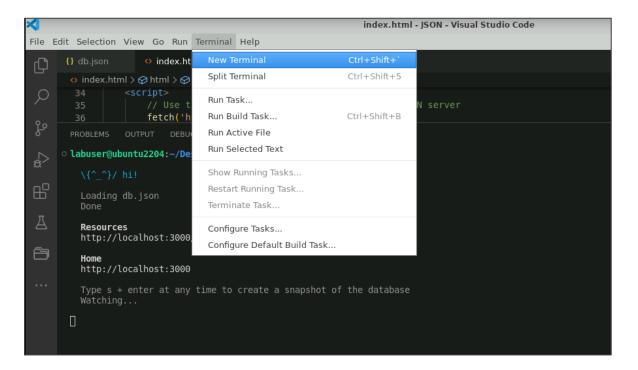
#### Steps to be followed:

1. Create a new user in the users collection

- 2. Read data of a specific user (by their ID)
- 3. Update data of a specific user (by their ID)
- 4. Delete a specific user (by their ID)

# Step 1: Create a new user in the users collection

1.1 Open a terminal or command prompt





1.2 Use curl with the POST method to create a new user:

curl -X POST -H "Content-Type: application/json" -d '{"name": "David", "email":

"david@example.com", "phone": "456-789-0123"}' http://localhost:3000/users

1.3 Open the db.json file to verify that the new user David has been added

```
{} db.json \times | output | o
```



## Step 2: Read data of a specific user (by their ID)

2.1 Use **curl** with the **GET** method to read a user's data: **curl** http://localhost:3000/users/4

```
Note: Replace 4 with the user's ID
```

Compare the output in the terminal with the corresponding user data in the db.json file



## Step 3: Update data of a specific user (by their ID)

3.1 Use curl with the PUT or PATCH method to update a user's data:

curl -X PUT -H "Content-Type: application/json" -d '{"name": "David", "email":

"david@example.com", "phone": "567-890-1234"}' http://localhost:3000/users/4



3.2 Open the **db.json** file to verify that the user **David** has been updated with the new phone number

Step 4: Delete a specific user (by their ID)

4.1 Use curl with the DELETE method to delete a user: curl -X DELETE http://localhost:3000/users/4



4.2 Open the db.json file to confirm that the user with ID 4 has been removed

By following these steps, you have successfully performed CRUD operations on the JSON DB using **curl**. This process demonstrates a thorough approach to interacting with a REST API.