Lesson 01 Demo 01

Creating and Using a JSON Server File

Objective: To create a JSON file with sample data and use **json-server** and **curl** to retrieve and display the user data in the console

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

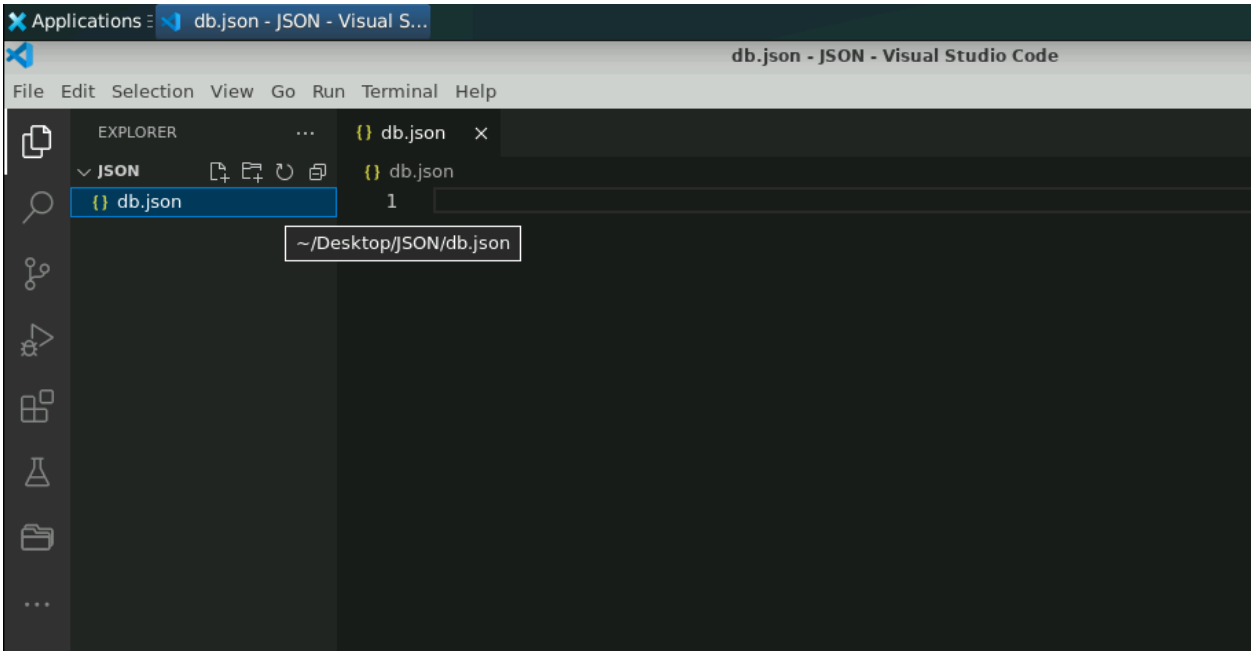
Prerequisites: None

Steps to be followed:

1. Create a **db.json** file with user data
2. Install and run the **json-server** using the **db.json** file
3. Use **curl** to retrieve and print the user data on the console

Step 1: Create a db.json file with user data

1.1 Open the Visual Studio Code editor and create a file named **db.json**

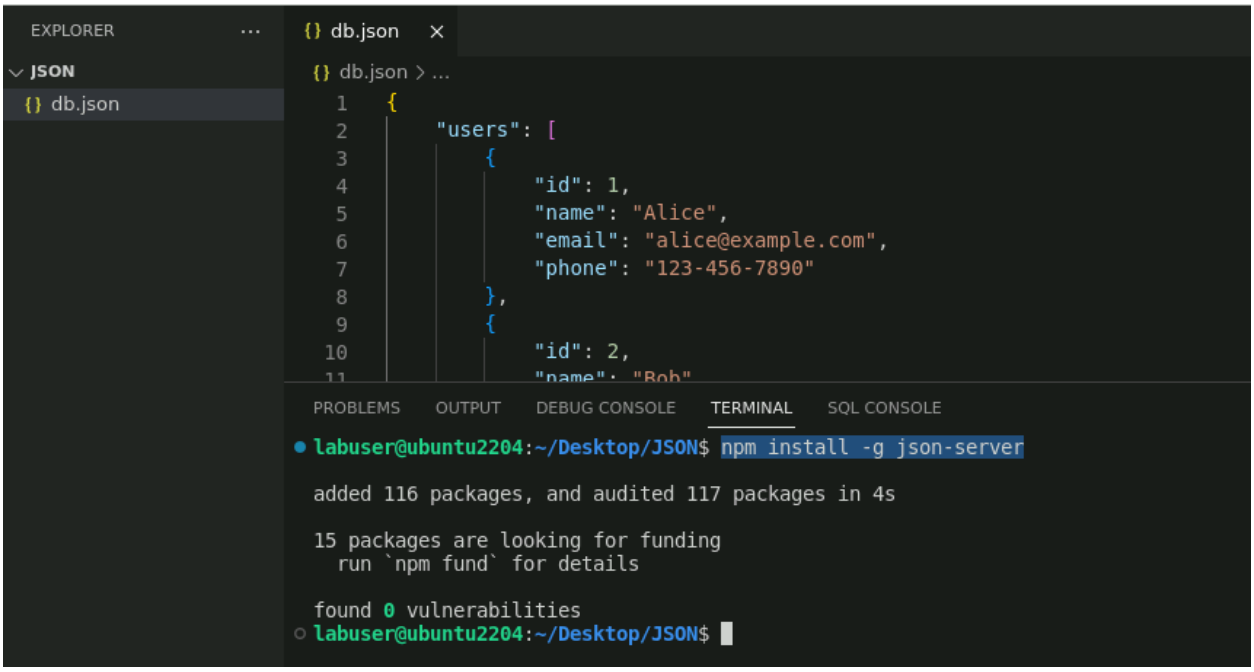


1.2 Add the following JSON data about users to the **db.json** file:

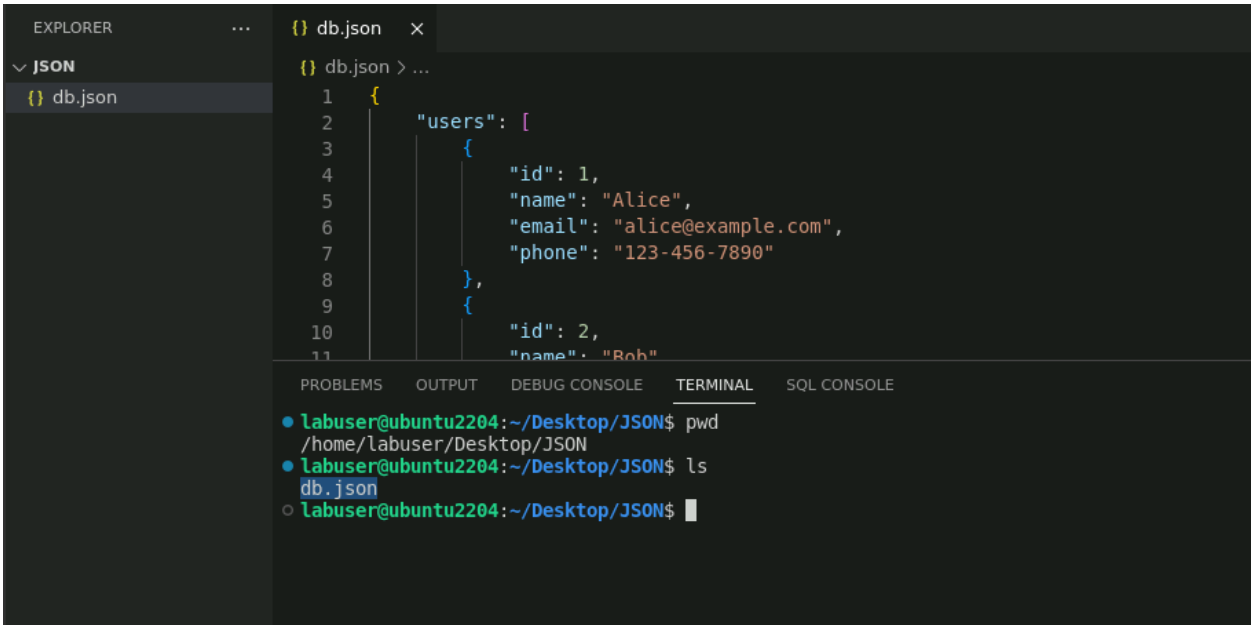
```
{
  "users": [
    {
      "id": 1,
      "name": "Alice",
      "email": "alice@example.com",
      "phone": "123-456-7890"
    },
    {
      "id": 2,
      "name": "Bob",
      "email": "bob@example.com",
      "phone": "234-567-8901"
    },
    {
      "id": 3,
      "name": "Charlie",
      "email": "charlie@example.com",
      "phone": "345-678-9012"
    }
  ]
}
```

Step 2: Install and run the json-server using the db.json file

2.1 Open the terminal and run the following command to install **json-server** using **npm**:
npm install -g json-server

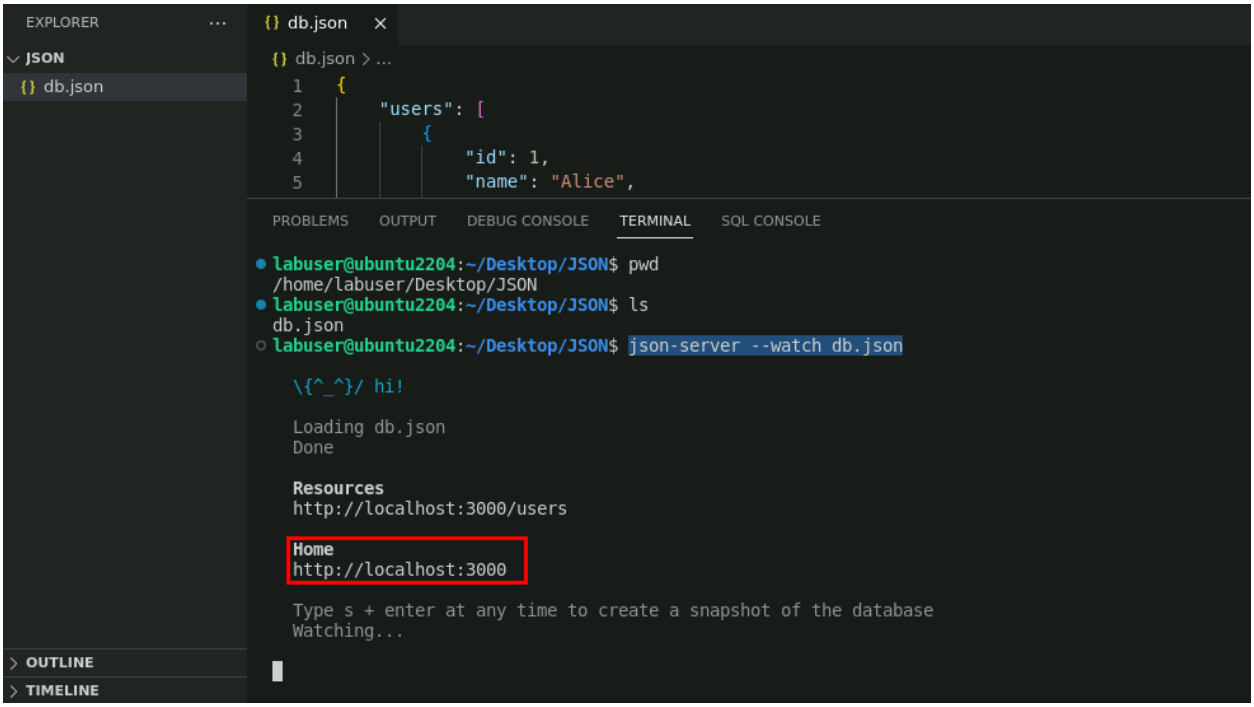


2.2 Navigate to the directory where **db.json** is saved



2.3 Start **json-server** using the following command:

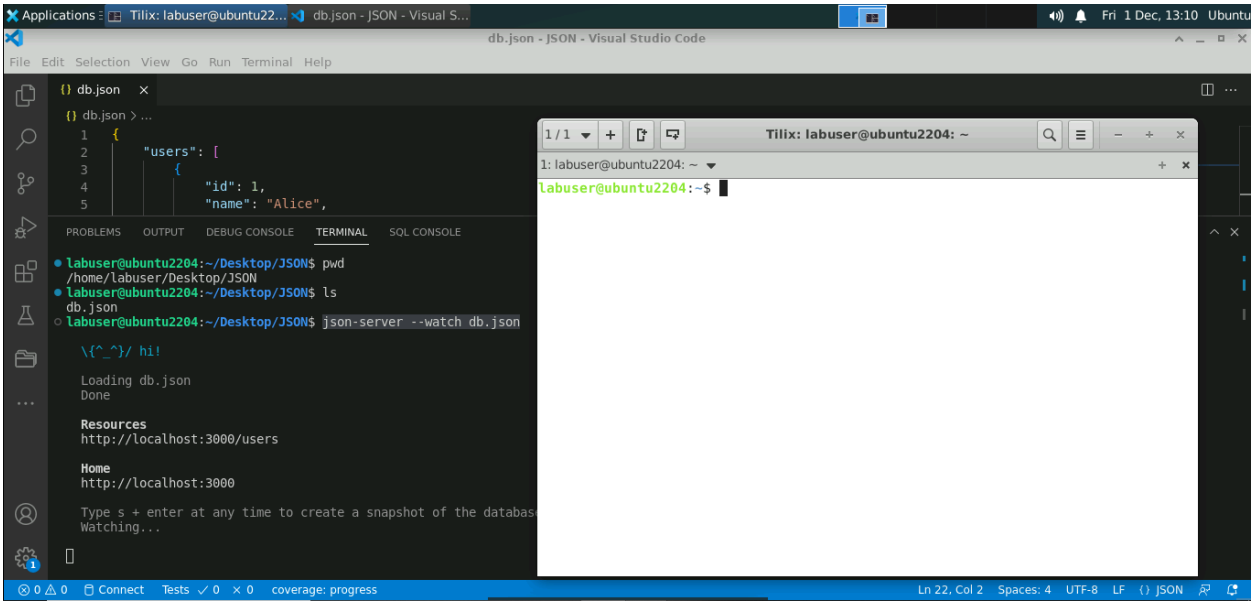
json-server --watch db.json



Note: The **db.json** is accessible at **localhost:3000**.

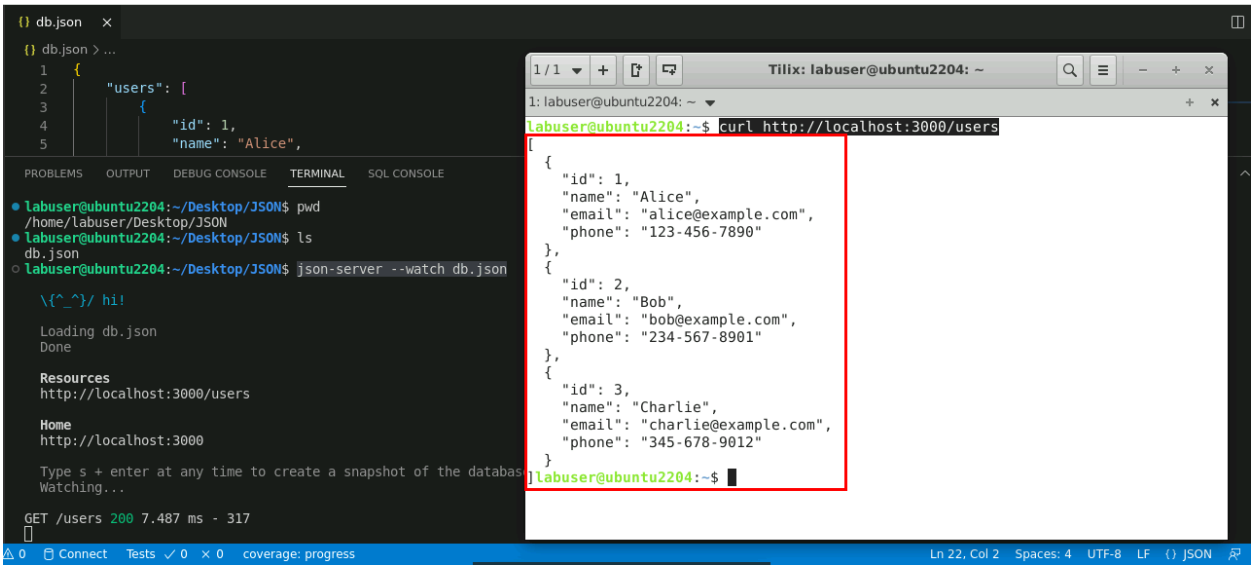
Step 3: Use curl to retrieve and print the user data on the console

3.1 Open another terminal or command prompt window

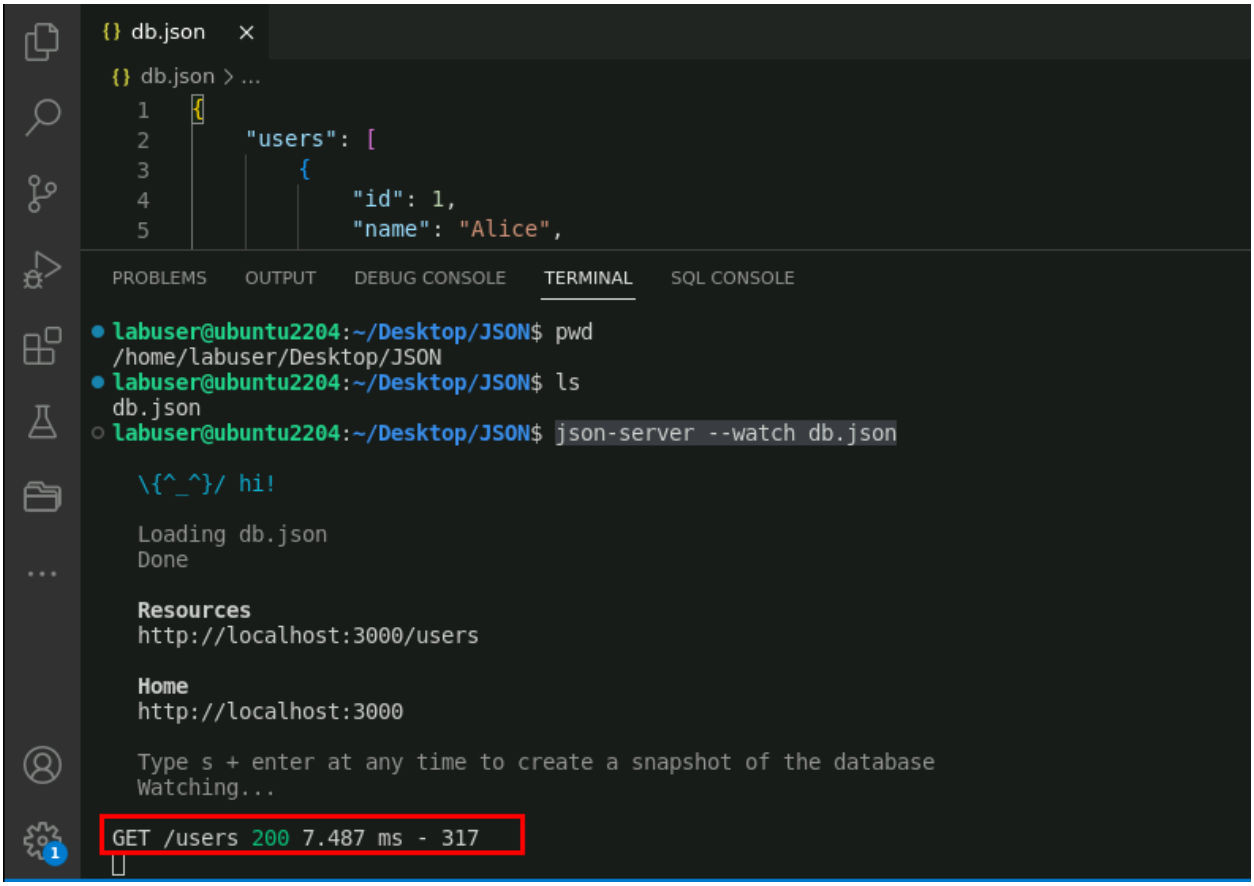


3.2 Use **curl** to make a **GET** request to the server:

curl http://localhost:3000/users



The user data from **db.json** will display on the console.



You can confirm the same in the terminal where **db.json** was executed. A GET request on the **/users** endpoint should return a **200** response.

By completing these steps, you will have successfully used **json-server** to serve your JSON data and **curl** to retrieve and display it in the console. This demonstrates a simple way to test and interact with a REST API using local JSON data.