

# API Example with Dynamic Routes

Node JS Tutorial in Hindi #41 API Example with Dynamic Routes



## Create a JSON File with User Data

We'll start by storing our user data in a separate JSON file. Create a folder called data and inside it, create a file named:

user.json

```
[  
 {  
   "id": 1,  
   "name": "Anil",  
   "age": 30,  
   "email": "anil@test.com"  
 },  
 {
```

```
"id": 2,  
"name": "Sam",  
"age": 32,  
"email": "sam@test.com"  
,  
{  
    "id": 3,  
    "name": "Peter",  
    "age": 20,  
    "email": "peter@test.com"  
,  
{  
    "id": 4,  
    "name": "Bruce",  
    "age": 18,  
    "email": "bruce@test.com"  
}  
]
```

## Set Up Express Server

Now, create an Express server in your `index.js` or `app.js` file:

```
import express from "express";  
import userData from "./data/user.json" assert { type: "json" };  
  
const app = express();  
const PORT = 3200;  
  
// Default route to send full user list  
app.get("/", (req, resp) => {  
    resp.send(userData);  
});  
  
app.listen(PORT, () => {  
    console.log(`Server running on http://localhost:${PORT}`);  
}
```

```
} );
```

## Fetch a Single User by ID (Dynamic Route)

Create a dynamic route to fetch user data using the ID passed in the URL:

```
app.get("/user/:id", (req, resp) => {
  const id = req.params.id;
  const filteredData = userData.filter((user) => user.id == id);
  resp.send(filteredData);
});
```

Explanation:

`:id` is a dynamic parameter.

`req.params.id` captures the ID from the URL.

We use `filter()` to match the ID in the JSON data.

GET /user/2 → returns data of Sam.

## Fetch a User by Name (Case-Insensitive Match)

You can also get users by their name:

```
app.get("/user-by-name/:name", (req, resp) => {
  const name = req.params.name;
  const filteredData = userData.filter(
    (user) => user.name.toLowerCase() === name.toLowerCase()
  );
  resp.send(filteredData);
});
```

Example:

GET /user-by-name/peter → returns Peter's details.

© 2025 All Rights Reserved by **thecodingskills.com** and **Code step by step YouTube Channel**

[Home](#) [About](#) [Contact](#)