

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.

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