Dynamic Routes with Example

Node JS Tutorial in Hindi #40 Dynamic Routes with Example

In real-world applications, we often need to create web pages that respond differently based on the **data passed in the URL**. That's exactly where **dynamic routes** come in!

What Are Routes?

In a web app, when a user visits a specific **URL**, we use a **route** to handle that request.

Example:

```
app.get("/about", (req, resp) => {
  resp.send("About Page");
});
```

This route handles requests made to `localhost:3200/about`.

What Are Dynamic Routes?

Dynamic routes allow us to pass dynamic data **through the URL** using parameters.

Instead of writing a new route for every user, we write one route that accepts any user name as a **parameter**.

Creating a Dynamic User Profile Page

Create a List of Users with Profile Links

```
app.get("/", (req, resp) => {
  const users = ["anil", "sam", "peter", "sidhu"];
  let data = `<ul>`;

  for (let i = 0; i < users.length; i++) {
    data += `<li><a href="/user/${users[i]}">${users[i]}</a></li>`;
  }

  data += `</ul>`;
  resp.send(data);
});
```

This will render a list of user names as links like:

```
/user/anil
/user/sam
```

Create a Dynamic Route to Handle User Profile

```
app.get("/user/:name", (req, resp) => {
  const userName = req.params.name;
  resp.send(`This is ${userName}'s Profile Page`);
});
```

Here, `:name` is a dynamic parameter.

`req.params.name` captures whatever is passed in the URL.

How It Works:

Visiting `/user/anil` will display:

"This is anil's Profile Page"

Visiting `/user/sidhu` will display:

"This is sidhu's Profile Page"

This is super useful for applications like:

Blog posts (`/post/:id`)

User profiles (`/user/:username`)

Product pages (`/product/:slug`)

Home About Contact