■ Express.js Request Parameters vs Request Body

In Express.js, data can be extracted from different parts of an HTTP request. The most common ways are via **URL parameters** (req.params), **wildcards** (*), and **request body** (req.body). This note explains the difference clearly.

- 1. Using req.params and Wildcards (*) Express route parameters are defined in the URL path.
- The `*` acts as a wildcard, and its value is available in req.params[0].

Example:

```
app.get('/name/*', (req, res) => {
  console.log(req.params[0]); // value after /name/
  res.send("You requested: " + req.params[0]);
});
```

Test URLs:

- /name/raj → req.params[0] = "raj"
- /name/raj/chaudhary → req.params[0] = "raj/chaudhary"
- 2. Named Parameters (:param) Instead of using *, you can define named parameters.

Example:

```
app.get('/name/:username', (req, res) => {
  console.log(req.params.username);
  res.send("Hello " + req.params.username);
});
```

- /name/rajendra → req.params.username = "rajendra"
- 3. Using req.body req.body is used to extract data sent in the body of a POST/PUT request.
- It requires middleware:

```
app.use(express.urlencoded({ extended: true })); // For form data
app.use(express.json()); // For JSON data
```

Example:

```
app.post('/name', (req, res) => {
  console.log(req.body.username);
  res.send("Hello " + req.body.username);
});
```

HTML Form:

```
<form action="/name" method="POST">
  <input type="text" name="username" placeholder="Enter name">
  <buton type="submit">Submit</button>
  </form>
```

4. Comparison MethodSourceAccessExample req.params[0]URL wildcard (*)req.params[0]/name/* req.params.paramNamed param (:param)req.params.username/name/:username req.bodyRequest body (form/json)req.body.usernamePOST form/JSON

- Summary:
 Use req.params for values in the URL path.
 Use wildcard (*) when you don't know the depth of the path.
 Use req.body for data sent in POST/PUT requests (form or JSON).