✅ **DELETE Method — Final Notes + Explanation (as you asked):**

📌 **What is DELETE method?**

The DELETE HTTP method is used to **delete a resource** (like a user, product, comment, etc.) from the server.

📌 **When is DELETE method needed?**

- When you want to **remove data** from a server.
- Used in **CRUD** operations (Create, Read, Update, Delete) for:
  - Deleting a **user account**.
  - Clearing a **shopping cart**.
  - Removing a **comment or post**.
  - Unsubscribing from a service.

📌 **Why is DELETE method important?**

- Ensures **data cleanup** when no longer needed.
- Maintains **security** (e.g., delete sensitive user data).
- Helps keep database and UI in **sync** (if something is deleted, it reflects in UI).
- Used in **automated tests** to reset data before/after test runs.

📌 **Key Features of DELETE:**

Feature	Details
Idempotent	Sending DELETE multiple times gives same result — resource is removed.
No Request Body	Usually just URL with ID, not body.

Status Codes

- 200 OK – deleted, with a response body
- 204 No Content – deleted, no body

- 404 Not Found – item already deleted or wrong ID
  | **Dangerous if misused** | Always use correct ID — DELETE is irreversible.

✅ Practical QA Use Case with jsonplaceholder API

📍 API Endpoint:

https://jsonplaceholder.typicode.com/users/3
(We'll use DELETE to remove user with ID = 3)

🧪 Step-by-Step in Postman (QA Testing)

1. 🔧 Setup the Request

- **Method**: DELETE

- **URL**: https://jsonplaceholder.typicode.com/users/3

- **No Headers/Body Needed**

2. 🧪 Hit "Send"

3. ✅ Expected Output:

- **Status Code**: 200 (or 204)

- **Body**: Often empty {} — because it's a fake API

🧪 Postman Test Script (Optional QA Validation)

Paste this in the **Tests** tab:

javascript

CopyEdit

```javascript
pm.test("Status code is 200 or 204", function () {

  pm.expect(pm.response.code).to.be.oneOf([200, 204]);

});


pm.test("Response should be empty", function () {

  pm.expect(pm.response.text()).to.satisfy(text => text === "{}" || text === "");
```

```
});
```

✅ **Summary — What QA Does After This?**

Task	What You Do
✅ Manual Test	Perform DELETE and check response manually
✅ Validation	Check status code, empty body, and if repeated call gives 404 or same response
✅ Negative Test	Try deleting a non-existent ID like DELETE /users/9999 — expect 404
✅ Automation	Write Postman test scripts to automate status & body check
✅ Reporting	Document test results, bugs, or unexpected behaviors

---

🎓 **Bonus:**

In interviews or real job QA:

- Explain DELETE is **idempotent**.

- Show 200, 204, 404 codes understanding.

- Validate **before** and **after** state if DELETE was real.