

HTTP Methods

🧠 HTTP Methods কী?

👉 HTTP Method বলে দেয়

Client server-কে কী করতে বলছে।

♦ 5টা সবচেয়ে Important HTTP Methods

1. GET — Read

👉 Server থেকে data আনার জন্য

Example

GET /users/10

📌 Rules:

- Data change করবে না
- Body থাকে না
- Safe method

2. POST — Create

👉 নতুন data তৈরি করার জন্য

Example

POST /users

📌 Rules:

- Server-এ new resource create করে

- Body থাকে
- Idempotent না

3. PUT — Full Update

👉 পুরা resource replace করে

Example

PUT /users/10

📌 Rules:

- সব field পাঠাতে হয়
- Idempotent

4. PATCH — Partial Update

👉 কিছু field update করে

Example

PATCH /users/10

📌 Rules:

- Only changed field পাঠাও
- Efficient

5. DELETE — Remove

👉 Resource delete করার জন্য

Example

DELETE /users/10

📌 Rules:

- Idempotent
- Resource remove করে

🧠 PUT vs PATCH (Interview Favorite !)

PUT	PATCH
Full replace	Partial update
Missing field → delete	Missing field unchanged
Less flexible	More flexible

📖 HTTP Status Codes কী?

👉 Status Code বলে দেয়

Server requestটা কীভাবে handle করলো।

◆ Status Code Categories

Range	Meaning
2xx	Success
3xx	Redirect
4xx	Client Error
5xx	Server Error

✓ Common & Important Status Codes

● 2xx — Success

Code	Meaning
200	OK
201	Created
204	No Content

↺ 3xx — Redirect

Code	Meaning
301	Permanent Redirect
302	Temporary Redirect

📌 TinyURL এখানে 301 / 302 use করে

● 4xx — Client Error

Code	Meaning
400	Bad Request
401	Unauthorized

403	Forbidden
404	Not Found
429	Too Many Requests

5xx — Server Error

Code	Meaning
500	Internal Server Error
502	Bad Gateway
503	Service Unavailable

Real Example Flow

1. Client → POST /users
2. Server → user create
3. Server → 201 Created
4. Client → GET /users/999
5. Server → not found
6. Server → 404 Not Found

✖ Common Beginner Mistakes

- ⊘ GET দিয়ে data change করা
- ⊘ Wrong status code return
- ⊘ 200 সব জায়গায় ব্যবহার

🏆 FAANG Interview Golden Lines

- “HTTP methods define intent.”
- “Status codes communicate outcome.”
- “Proper usage improves debuggability.”

🏠 One-Line Summary

Method = What you want

Status Code = What happened