

# HTTP Methods

🧠 HTTP Methods কী?

👉 HTTP Method বলে দেয়  
Client server-কে কী করতে বলছে।

◆ ৫টা 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 ! )**

<b>PUT</b>	<b>PATCH</b>
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**

<b>Range</b>	<b>Meaning</b>
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**