

HTTP STATUS CODES — ENGINEER VERSION (HINGLISH)

Core Idea (1 line)

HTTP status code = server ka short reply

“Request samajh aayi, kaam hua ya nahi — aur kyun?”

Socho tum Swiggy order kar rahe ho 🍔

Status code = delivery app ka reply.

2xx — SUCCESS (Kaam ho gaya)

200 OK

- Matlab: “Request sahi, data mil gaya”
- Scraping me: **HTML mil gaya**

 Analogy:

| Order diya → food mil gaya

 Engineer Note:

- 200 aane ka matlab **data correct hai** — ye assume mat karo
- Kabhi 200 ke saath **fake / empty HTML** bhi hota hai (advanced topic later)

201 Created

- Mostly APIs me
- Matlab: “Naya data create ho gaya”

 Example:

- POST request → naya user ban gaya

Scraping me rare hai, but backend me common.

3xx — REDIRECTION (Rasta badal diya)

301 / 302

- Matlab: “Page yahan nahi, wahan jao”

 Analogy:

| Restaurant band → next branch pe bhej diya

Scraping me:

- Old URL → new URL
- requests default handle kar leta hai

 Engineer Question:

- Agar redirect loop ho gaya toh?

4xx — CLIENT ERROR (Tumhari galti)

404 Not Found

- Matlab: “Yeh page exist hi nahi karta”

 Analogy:

| Ghar ka address galat

Scraping cause:

- Pagination URL wrong
- Category removed

🔧 Action:

- Stop scraping that URL
- Log error

403 Forbidden ⚠️ ⚠️ ⚠️

- Matlab: “Samajh gaya, par allow nahi”

📦 Analogy:

Guard bolta: “Entry nahi milegi”

Scraping cause:

- Bot detect ho gaya
- Missing / bad headers

🔧 Engineer response:

- Headers improve
- Slow down
- Accept you’re blocked

❌ Galti beginners ki:

“Code galat hai”

No. **System ne mana kiya.**

429 Too Many Requests 🔥

- Matlab: “Bohot fast aa rahe ho”

📦 Analogy:

Ek hi aadmi 100 baar gate knock kare

Scraping cause:

- No rate limiting

- Too many requests

🔧 Engineer fix:

- Sleep
- Retry later
- Async me semaphore (later)

🔴 5xx — SERVER ERROR (Unki galti)

500 Internal Server Error

- Matlab: “Server toot gaya”

📦 Analogy:

| Kitchen me gas khatam

Scraping mindset:

- Tum kuch nahi kar sakte
- Retry later
- Log and skip

502 / 503

- Server overload / maintenance

💡 Engineer rule:

| 5xx = retry + patience



SUMMARY TABLE (MEMORY ANCHOR)

Code	Meaning	Scraper Action
200	OK	Parse data
301/302	Redirect	Follow URL
403	Blocked	Headers / slow
404	Not found	Skip URL
429	Too fast	Rate limit
500+	Server down	Retry later