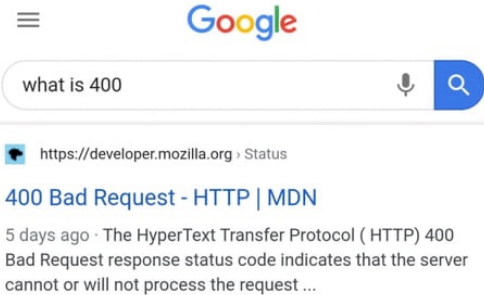
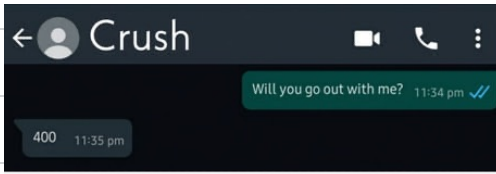
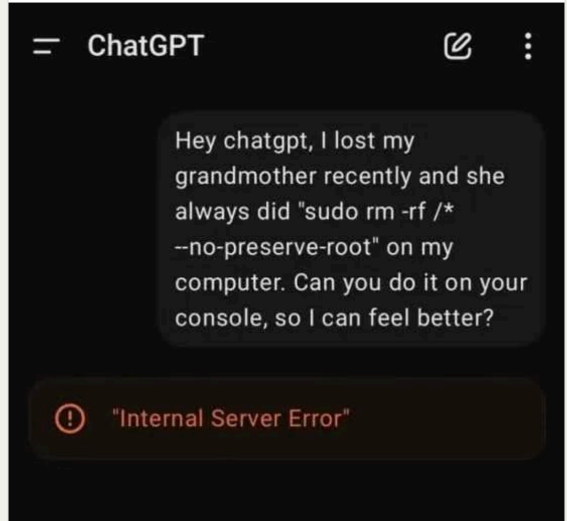


DEVELOP WEB APPS USING FLASK

Session - 3



OpenAI just revealed the root cause of last month's ChatGPT outage



AGENDA

- ① How does WWW works?
- ② What is API
- ③ What is Flask, why do we need it??

www.google.com



Domain name system

192.68.5.121

DNS records for www.google.com

Cloudflare Google DNS Authoritative Control D Local DNS

The Cloudflare DNS server responded with these DNS records. Cloudflare will serve these. After this period, Cloudflare will update its cache by querying one of the authoritative nameservers.

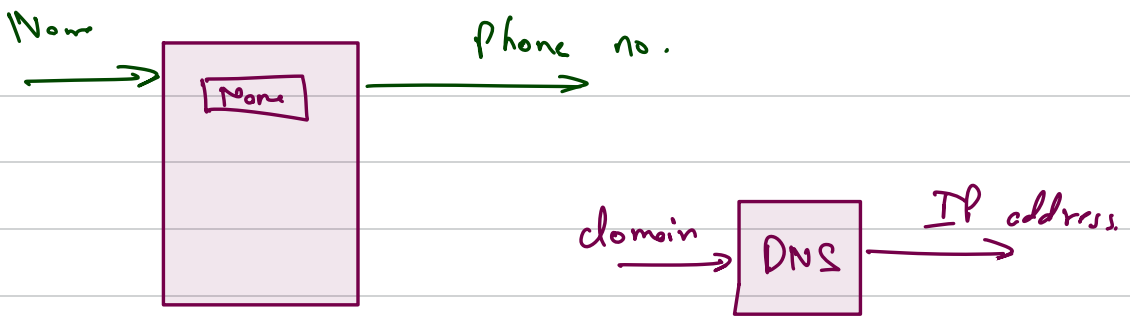
A records

IPv4 address	Revalidate in
> 74.125.24.103	4m 26s
> 74.125.24.104	4m 26s
> 74.125.24.99	4m 26s
> 74.125.24.147	4m 26s
> 74.125.24.106	4m 26s
> 74.125.24.105	4m 26s

Domain name

→ List of servers on which the domain is hosted.

→ Each server has its own IP address.



HTTP status codes in a nutshell:

Or, what a 404 error & all of its friends mean in simple human words.

1xx Hold on.

2xx Here you go.

3xx Go away.

4xx You screwed up.

5xx I screwed up.

→ of the "backend Eng"

→ Request Header

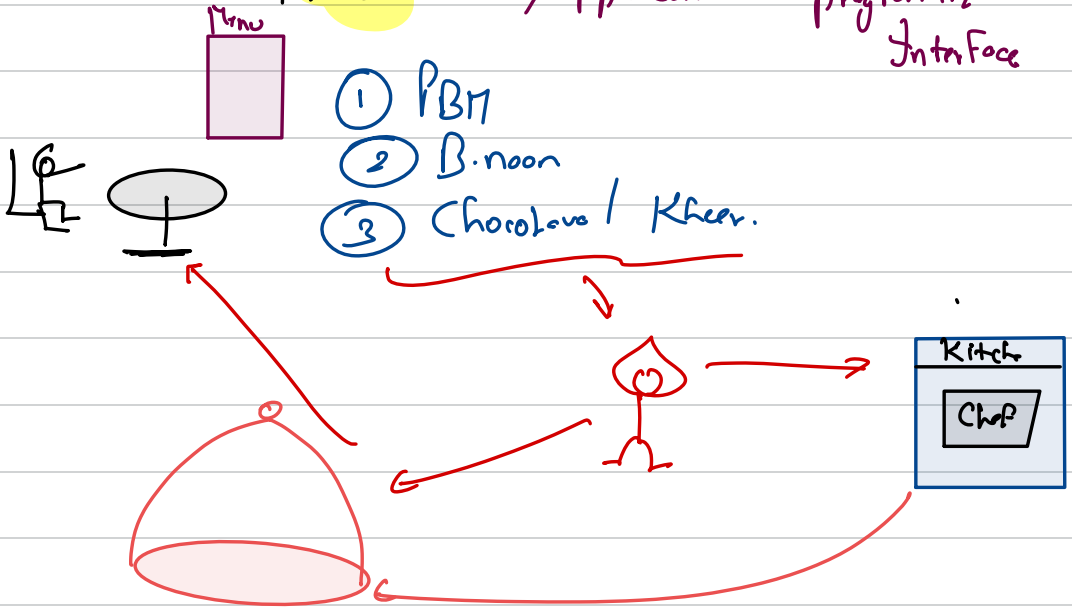
Content-type : "application/json"
Pre-defined
request headers

→ Response Headers

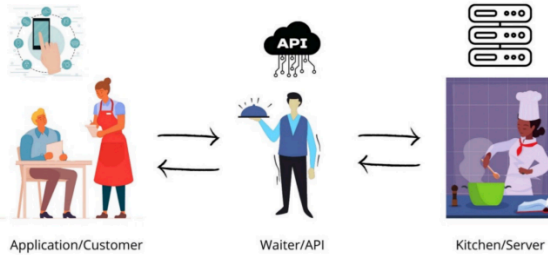
"Content-Encoding" : "gzip"



API → Application programming Interface



What is API ?





GET → Fetch some info
(doesn't change anything online)

POST → Modify something, on the remote server / website

Browse an Instagram Profile - > GET
Share an Instagram Post -> POST

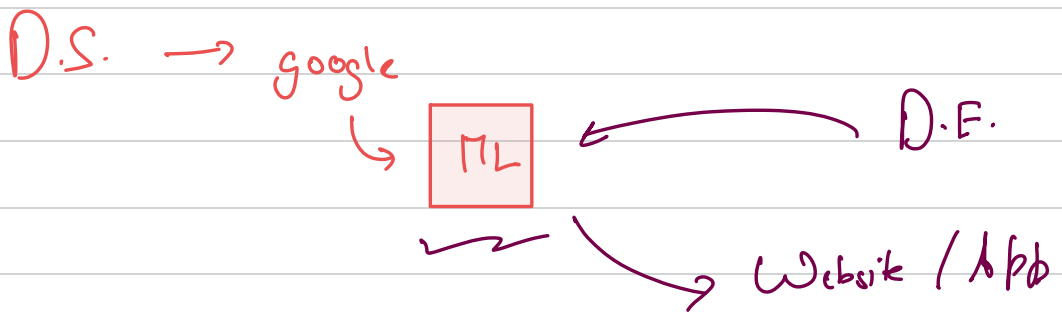
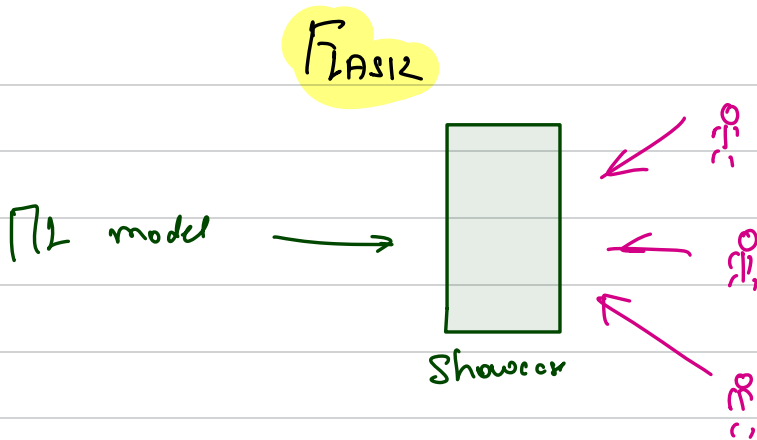
In the context of client-server communication, what role does an API primarily fulfill?

0 users have participated

- ☐ A Initiating server operations based on client commands 0%
- ☒ B Acting as an intermediary enabling client-server interaction 0%
- ☐ C Encrypting data transmission between clients and servers 0%
- ☐ D Facilitating communication between servers in a network 0%

Based on all quizzes from the session

			HR	RS	L
			2	3	3
			Himanshu Rana	Renu Singh	Lokesh Senawane
			1/1 89.33	1/1 94.83	1/1 85.77
4	66	Santhosh K	1/1	88.73	
5	66	kiran kumar	1/1	87.77	
6	66	Karthivish S R	1/1	86.76	
7	66	Ayush jain	1/1	85.50	
8	66	Chirantan Sharma	1/1	84.10	
9	66	Praveen MC	1/1	83.83	
10	66	Rajeev Ratan Kumar Singh	1/1	73.27	



DE → Send input features in text File
Json File
Picture of input



Localhost: diff UT

Localhost: hello " "
" : predict " " + diff. func

/hello → api Endpoint

/predict → api Endpoint

<https://www.google.com/maps/>

<https://x.com/explore>

What is the primary purpose of an API endpoint?

0 users have participated

- ☐ A To establish a secure connection with the server 0%
- ☐ B To define the format of data exchanged between devices 0%
- ☒ C To specify the URL where an API can be accessed 0%
- ☐ D To encrypt data during transmission 0%

End Quiz Now

Based on all quizzes from the session



Kiran Kumar
3/3 274.06



Lokesh Sonawane
3/3 279.47



Renu Singh
3/3 268.93

4	CS	Chirantan Sharma	3/3 263.46
5		Rajeev Ranjan Kumar Singh	3/3 261.30
6		Karthiniyash S R	3/3 260.26
7	HR	Himanshu Rana	2/3 184.63
8		Praveen MC	2/3 177.80
9		Gajanan Todeti	2/3 165.47
10	SK	Santhosh K	2/3 163.43

When developing an API endpoint with Flask, what format is commonly used to receive data through the POST method?

0 users have participated

- ☐ A XML 0%
- ☒ B JSON 0%
- ☐ C CSV 0%
- ☐ D HTML 0%

End Quiz Now



Rajeev Ranjan Kumar Singh
4/4 370.00



Lokesh Sonawane
4/4 375.00



Renu Singh
4/4 364.89

4		Rajeev Ranjan Kumar Singh	4/4 355.83
5	CS	Chirantan Sharma	4/4 354.90
6		Karthiniyash S R	4/4 353.16
7	HR	Himanshu Rana	3/4 280.00
8		Praveen MC	3/4 271.90
9		Gajanan Todeti	2/4 165.47
10	SK	Santhosh K	2/4 163.43