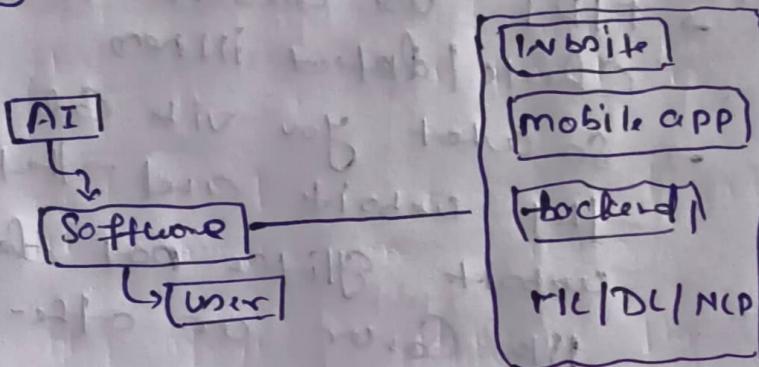


## 2. Introduction to Computer Networks, DNS, AI Assistant

Poloo kei Icistem → Roi → Korchina  
 Code kei Icistem → Roi → Tottan

### AI

- Why we need to learn HTML, CSS
- Why we learn with AI built Software

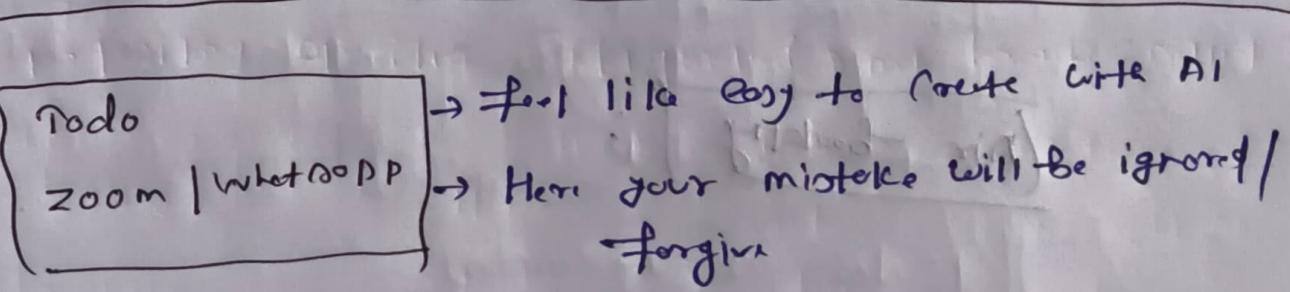


SaaS → Software as a Service

↳ not for build Software

↳ or also need fulfill feature request.  
by fix, etc

So **AI** not solve / fix 'Code' each time



→ But in Reality like High Stacks Software exist  
so there is no chance to clone virus code

→ virus code there lost lot of money and loss of  
life

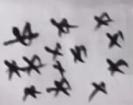
Hospital → use FIRI to detect  
critical illness

→ FIRI use website to  
check/detect illness

→ so detect you virus code on  
that website and if  
website gives not detect  
like Corova or other  
illness

Stock market → what if you ~~not~~ earn  
10 crore from stock  
market but you ~~for~~  
Received 10 thousand only  
you can not ignore this  
as customer

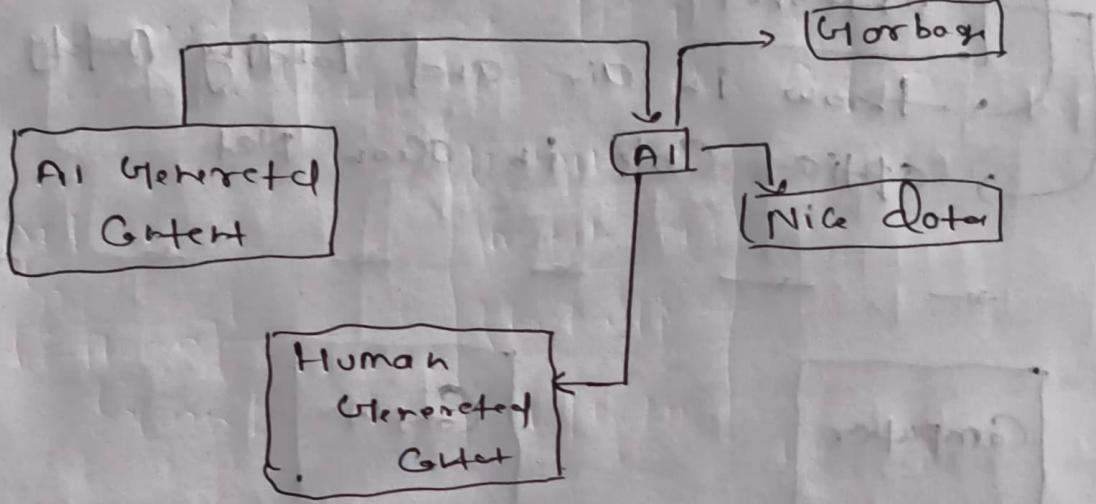
Air booking :



Remember this like End of your Journey

~~Author you~~

Whatever the God, you are shipping you are responsible.



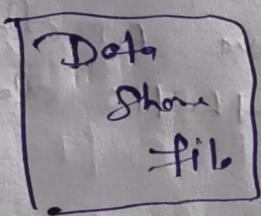
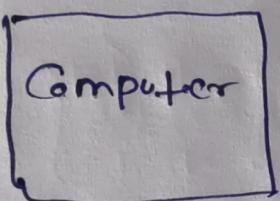
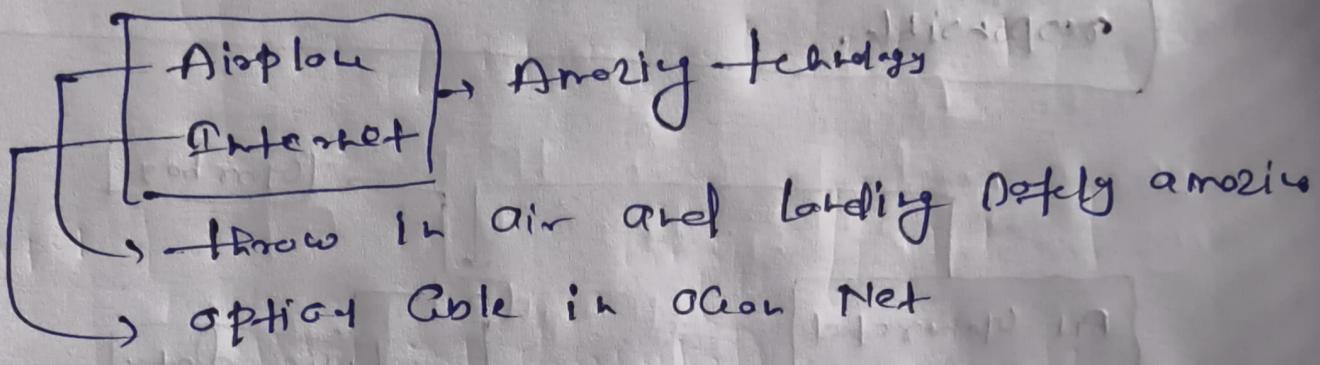
→ Never Should → Give AI data to AI.  
that AI data is synthetic data. so  
Garbage data receive.

## ARTICLE WRITING TECHNICS

- 1. Problemizing
- 2. Solutions
- 3. Implementation

Internet → 1970

Web → 1990



∴ When the Computer is piggyback all file  
are good

∴ When one Computer want to send a  
data / fil to other Computer, ~~so~~ ~~be~~  
Create a Rule.

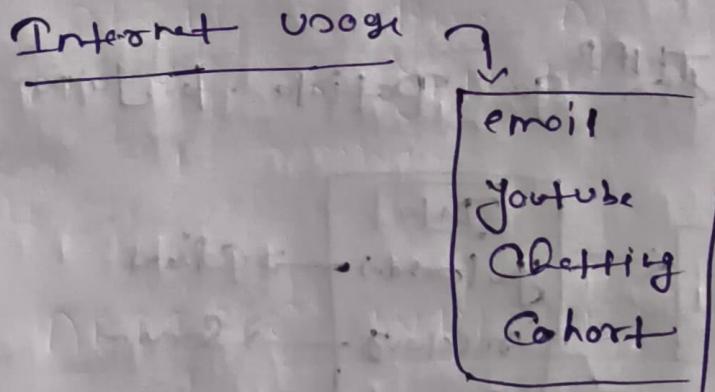
∴ Rules are necessary.

$$\boxed{\text{Computer} + \text{wires} + \text{Protocol} = \text{Network}}$$

Network :- When two Computer Communicate with other Computer Called Network.

Internet :- When many networks Connect to each other Called internet

:- To Communicate <sup>one</sup> Computer to another Computer we just need Internet

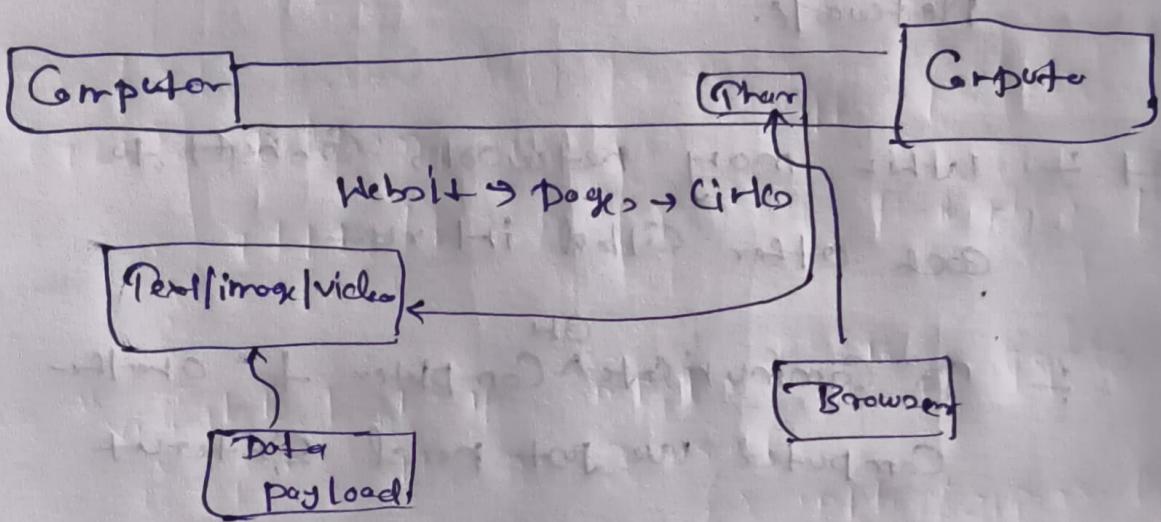


Internet :- Globally Connected internet

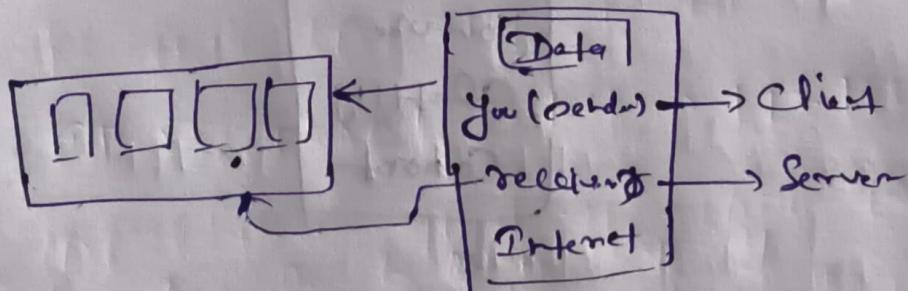
:- that follow some Common Protocol.

- HTTP
- TCP
- SMTP
- UDP

- \* Internet is mega network of all Network
- \* WWW (World Wide Web)
  - The Service / Content
  - Set of information (website, page, media)



How your ~~THAR~~ go Patiala to Jalandhar



\* THAR assume as data / payload

\* When we open website or open file then browser Read Net User.

### Browser is too complicated

→ How when you open HTML file and display Content on browser.

→ How that Content displayed means browser Control your HTML Content Computer Pixels (LCD of Computer)

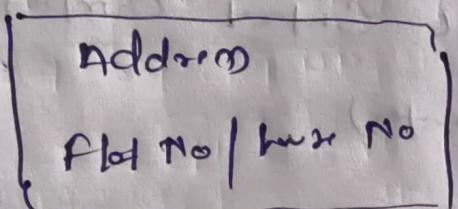
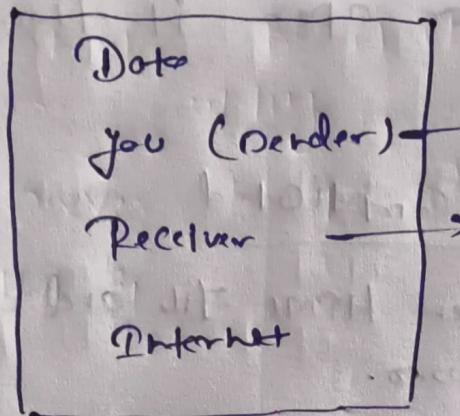
\* If internet is library then there are ebooks need but empty books not any benefits. Also need someone who read books

\* In my Cox library is Internet, Books refer to Web pages and someone who read that books in browser.

\* Browser carry THM move from Portfolio to Job por

Ques How data has been sent to one Computer to another Computer

→ 4 thing need to share data between Computer to another Computer



Other IKA addresses  $\rightarrow$  IP address

Room no  $\rightarrow$  PORT

\* Total ports in Computer  $\rightarrow 2^16 \rightarrow 65536$

\* Some IP are reserved

$\hookrightarrow$  apple (reserved IP)

$\hookrightarrow$  google

\* Which one provide Internet Called ISP

IP  $\rightarrow$  Internet Protocol  $\rightarrow 192.168.1.1$

\* Data provide backbone capacity

$\rightarrow$  Jata invested Submarine Cable

$\rightarrow$  data Center across GLOBE

$\rightarrow$  Airtel / JIO buy bandwidth / lease capacity instead

$\rightarrow$  building everything themselves



→ many ~~software~~ hardware are now convert in Software. like → Router, firewall, Local bolster.

These hardware has now software implementation also its (SST)

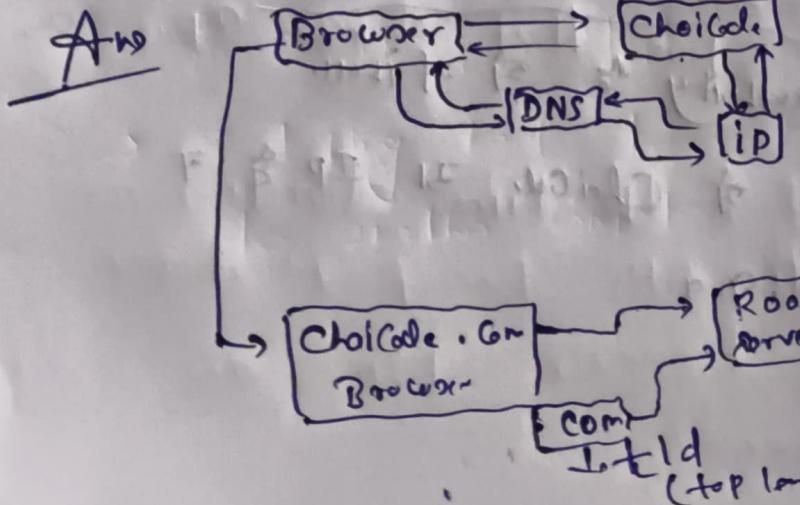
### Assignment

→ write an article about hardware Router, modem, switch, firewall, hub, Local bolster

Qn When you learning then we deep dive (Rabbit hole) so to deal with this

Ans Learn everything and then deep dive

Qn How that ChoiCode Ciebolte open and how the browser reach their domain.



Decentralization  
to GJE ETI  
multiple client  
Derelegation  
to 5T  
first 3T  
5T only  
ET

(13 Root Server)  
1600 f

loose  
coupling

→ Read about Decentralization, delegation & Coarse Coupling

→ 13 Root Server के पर उन्हें alternative 1600 से  
मिल जाता है।

Copied of Root Server

→ Root Server Only Know .com, .in, .net etc जैसे TLD  
(TLD) का चला गया,

→ TLD खो है अंत में उसके लिए जड़ सारे TLD  
Server होते हैं।

→ violetCode.com खो है तभी .com को हाँचना होता है।  
जहाँ है (TLD Server)

But a violetCode को अपना हाँचा होता है।  
TLD Server होगा (whom to tell next) जैसा

जैसे वीलेगा [A] नाम का बंदा कहिएगा आ

वह उसमें दूरी,

[A] हफ्ता है आपको. में Authoritative DNS  
Server का Information को हूँ इवं दूरी।

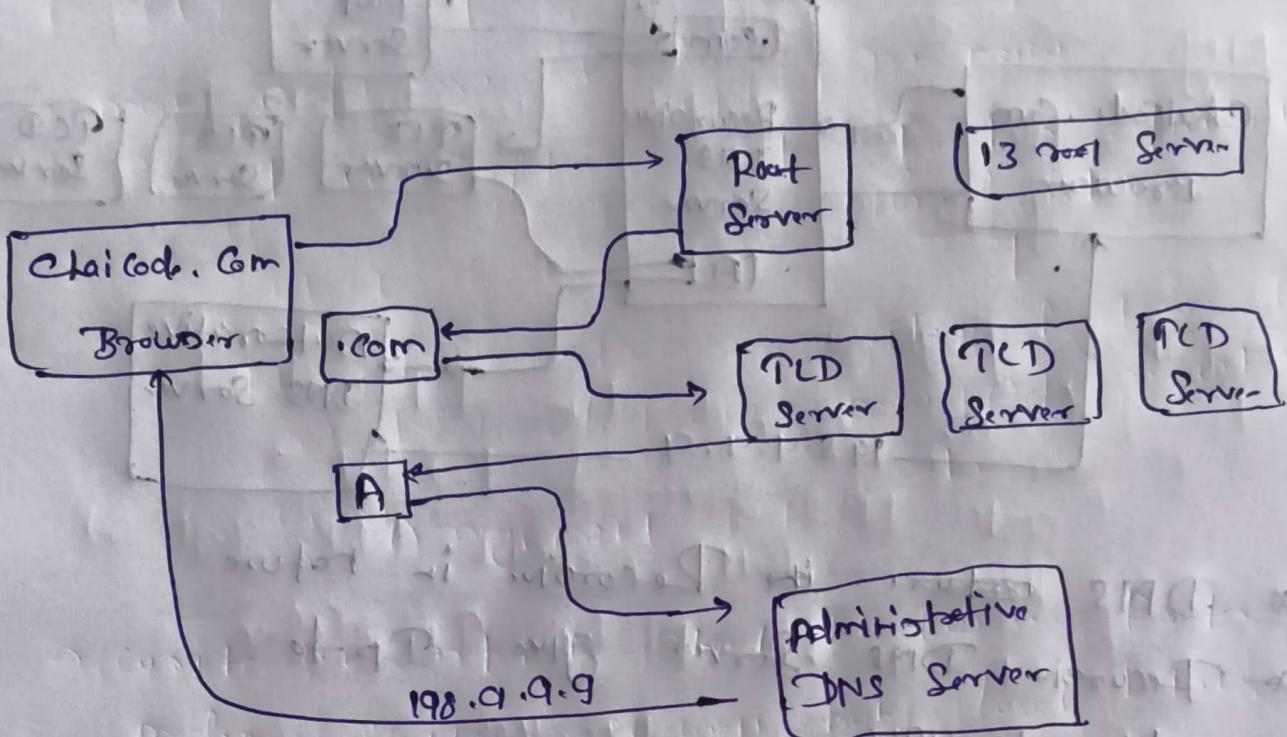
Administrative DNS Server, कंपनी Company है।

उन्होंने पास ज्ञापा authority को दी थी।

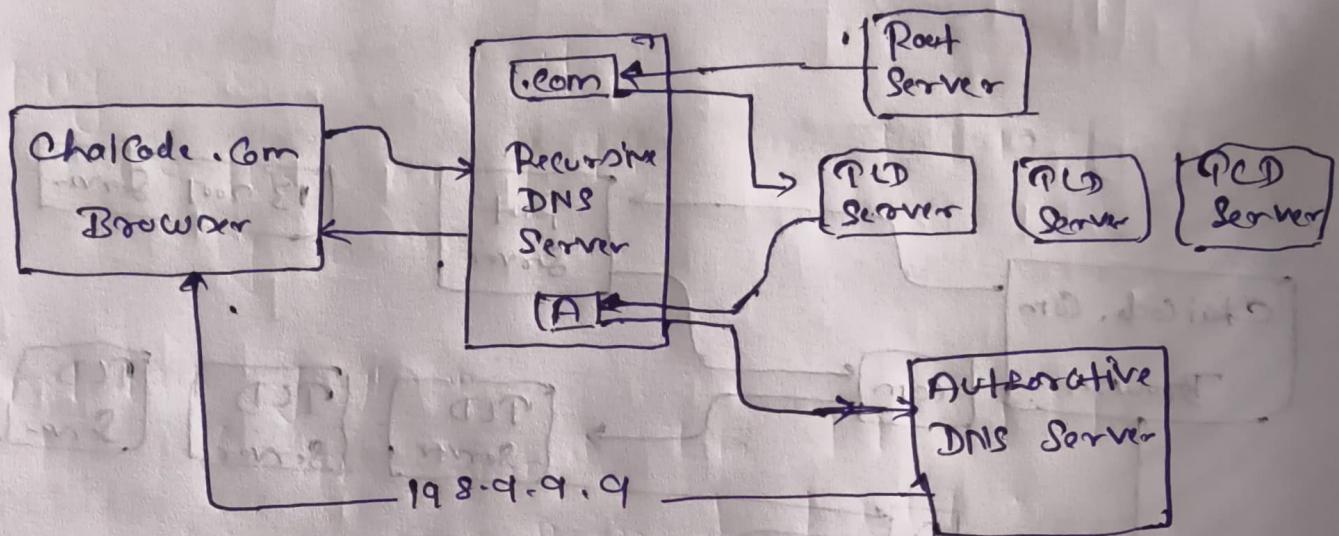
ज्ञापा है कि कंपनी के Child को IP है त

को ये है। 192.168.1.1

virgin, netlink etc.



- So here you can see what the problem is to get IP of domain.
- Browser need to follow this process so that Browser direct talk with Recursive DNS Server
- (machine) and Recursive DNS Server give the IP direct to Browser
- But Recursive DNS Server follow up Dom proc.



- \* DNS ~~is~~ is Recursive in nature
- \* Recursive DNS Server gives IP to the browser
- \* Browser need VIP servers (or need direct IP or net. work, let more).

### Caching:

if browser domain browser request to domain and then got IP. But again someone in Browser put some that domain after Browser \$ is the Post Cache store that domain IP.

TTL → TTL in DNS is the time duration for which a DNS Record is stored (cached) by browser, ISP, and DNS Server.

- At only store cloudfire and subdomain not website all pages of posts.
- At store Cache I click you open that uses URL in the browser even though that not Cache
- ~~At~~ Let's say to for this domain I suddenly TPC is 86400 records then, ~~that~~ ~~is~~ when i open that website in browser the browser cache that will use IP, DNS Server until that 86400 records fine duration.
- Browser not perform Recursive bcz at obviously Cache all trying for that ~~TPC~~ fine duration.

## RECORD

A Record = This Record provide IP of that domain

CNAME = But if you by pointing on netility or more than in Record (CName)

<u>Record</u>	<u>Name</u>	<u>target</u>
CName	@	Chield.netility.co

## Commands

ping -c 2 google.com

↳ This command sends two packets of google.com

nslookup google.com

↳ This command line tool used to ask DNS Server to translate a ~~any~~ - reusable website (like google.com) into machine readable IP address

C:\> nslookup google.com

dig google.com

↳ This command line tool which provides IPs and A Record.

dig com NS

↳ It provides nameserver of domain.

dig . NS

↳ It provides root server name.

google.com

↳ ⚡ Usually found with which attack Port  
Server (Apache) has been centralized,

⚡ Com के नाम से भी यहाँ कोई  
कोई Com के नाम से परिवर्तित  
प्रगति।

dig google.com NS

↳ q+ ns by ~~give~~ my authoritative server

→ ipconfig

→ ifconfig

→ top ~~General~~

↳ it ip

→ optine (How much to time your Nmap Run.)

<111

→ curl ascii -l (Download to my Denim)

↓

Curl ascii -fornet

Curl https://Cloud.GH

Curl http://ih