Day1(basic intro)

Welcome

interactive → glipse

next → coding

Miss classes ✓
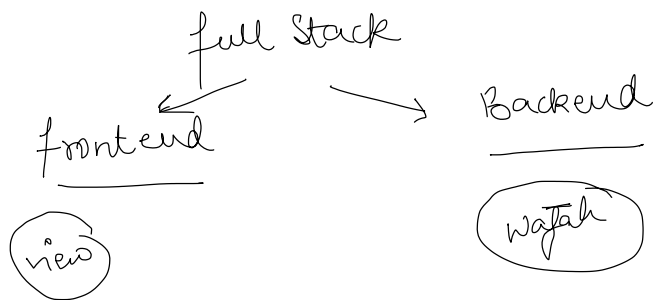
✓ Recorded session (Revision)

Doubts → Slack (all members)

TA

teaching
assistant

Doubt → { doubts
         problems }

Disclaimer → term

full Stack

frontend ← → Backend

view   Wajah

Browser → understands only
          1 PL .

          ✓ JS (Java Script)

PL → programming Language ?

- html ✓
- css ✓
- [JS] ✓✓✓

```
< h1 >    Hi my name...
</h1>
```

| Knowlke Logics   define |

Web development

Frontend
- HTML (markup) ✓
- CSS (style sheet) ✓
- ⭐⭐⭐ JS (Java Script → PL)
- ✓ Bootstrap | tailwind ✓
- J query (JS library)
- DOM (document object model)
- canvas
- **AJAX & API's**

Backend

→ **Server**
- Node JS
- Express
- eJs
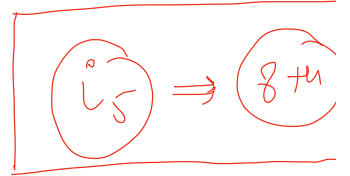
→ **Database**
- MongoDB
- MySQL

↪ → Version Control system
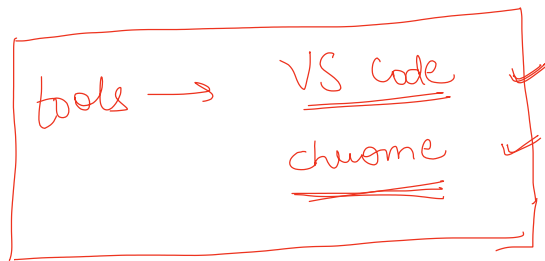
MERN
| 10 live |

- git & github

React (JS library)
- create single page Application

Sockets
- Real time communication

js ⟹ 8th

tools → VS code
chrome

— ✗ — → ✗ — ✗ — —

web? → information system
collection of webpages
and websites, which
you access using
internet.

website
static stuff
eg: govt. websites

webapplication
dynamic stuff
eg: instagram, facebook

website

webpages → single page of
information
·or
collection of webpages

makes a website.

What is <u>Internet</u>?

global network of interconnected
computer, which communicates
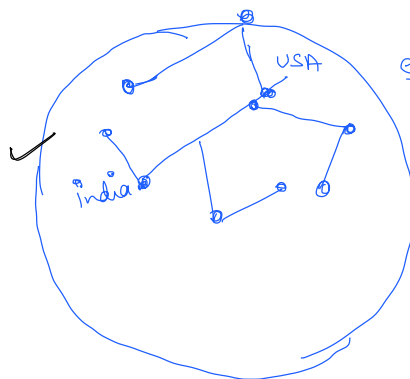using TCP/IP protocol.

<u>TCP/IP protocol</u>?

→ internet ke saath work, then
you need to follow some rules/
techniques by standard organisation.
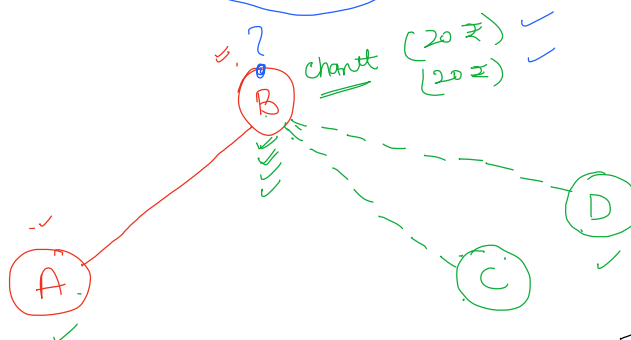
eg: http (hypertext transfer protocol)

https security

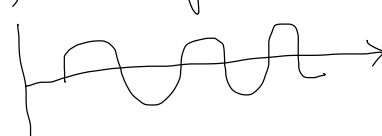IP : internet protocol

TCP : transmission control protocol

C₁   C₂

☐ ——(wires)—— ☐

earth

Internet
cable

B ?
chart (20 ₹)
(20 ₹)

A   C   D

who B ? → (ISP))J⁰, airtel, vary

(internet service
provide)

Amount change   ?

→ cables → undersea

maintainance

→ digital 0/1 → Router

→ analog ✓ (modem)

(961) packet
Switching

data →(small
packets)

(Computer Networks)

1972   proffesors
(chatting) →internet

1974   TCP
(Vint-surf)

(Baba Log)

M̆ — W̆ — F̆ (prior information)

$(6-7)$ hrs

$7:30$

$6:30$

timing: $\boxed{10 \mid 10:30 \mid 11}$

$25 - 30$ mins

—— ✕ —— ✕ —— ✕ ——

- client ? ✓
- Server ? ✓
- ISP ? ✓
- (DNS) ? (domain name system)
- Datacenters ?

Browser ✓
client ✓
user

request ✓
response ✓

Server

Request
Response
cycle
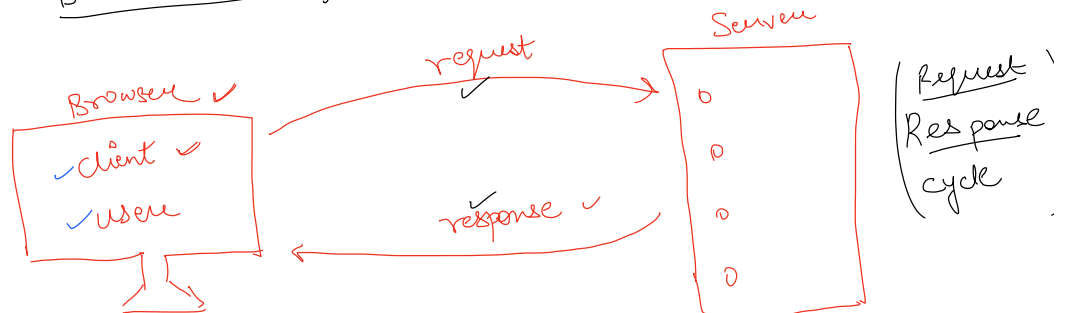
(client) → anyone who has requested for the data.

Server → anything which analysis, & reverts you back with the Best possible solution.
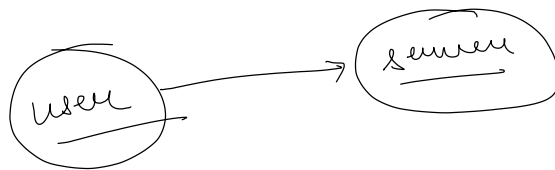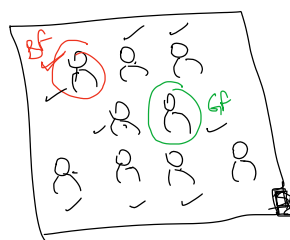
Q Kya mai client se fixe server bann sakta ?

login / signup
name

website

Server

Once you are a client that X mean that you cannot be a server.

asking for data?

user → server

DNS ? what is domain name system ?

Naam ✓   Number ✗

webapps

192.12.1.192 → google.com ✓ → result
195.12.10.192 → youtube.com ✓
→ instagram

DNS ✓   Names

Datacenters → huge - huge data is being stored.

types of websites/webapplications

HW 1   static ✓   → HW Read
         dynamic ✓   10 mins
         responsive ✓

HW 2   vs code   ** Download

chrome