## Network Protocole & Standards

OSI Model is not a networking standard. OSI is a framework into which the various networking standards con OSI model specifies what aspect of networks operation can be addressed to by which network standard.

Physical - governs layout of cables & devices such as repeaters & hubs.

data link - provides mac addresses to uniquely identify network had I means of data to sent over physical layer in the form of packets. bridges/switches layer 2 daying

network - routing of data across network segments

transport - reliable delivery of packets.

sps sion - sessions between network applications

presentation - systems that can use different data from ats can exchange information.

application - allows applications to request network senices

(hichay a mac address) brustoph a di persent mec Data hink hayer. - defines size of packet. - emor eletection/correction.

each device on network has an address comedia access control address).

- Sending packets safely over physical media without interference from other nodes attempting to send packets at some time (ESMA/CD) - listens before sending packet & after sending Network device - physical

network device aphysical address & MAC oddress ofher addressing schemes

notocols - 1P /TCP

protocol to actually send packets to device.

Address protocol protocol must use data link layer

## (vanspost layer

without emors.

is acknowledged.

· Frank day no be

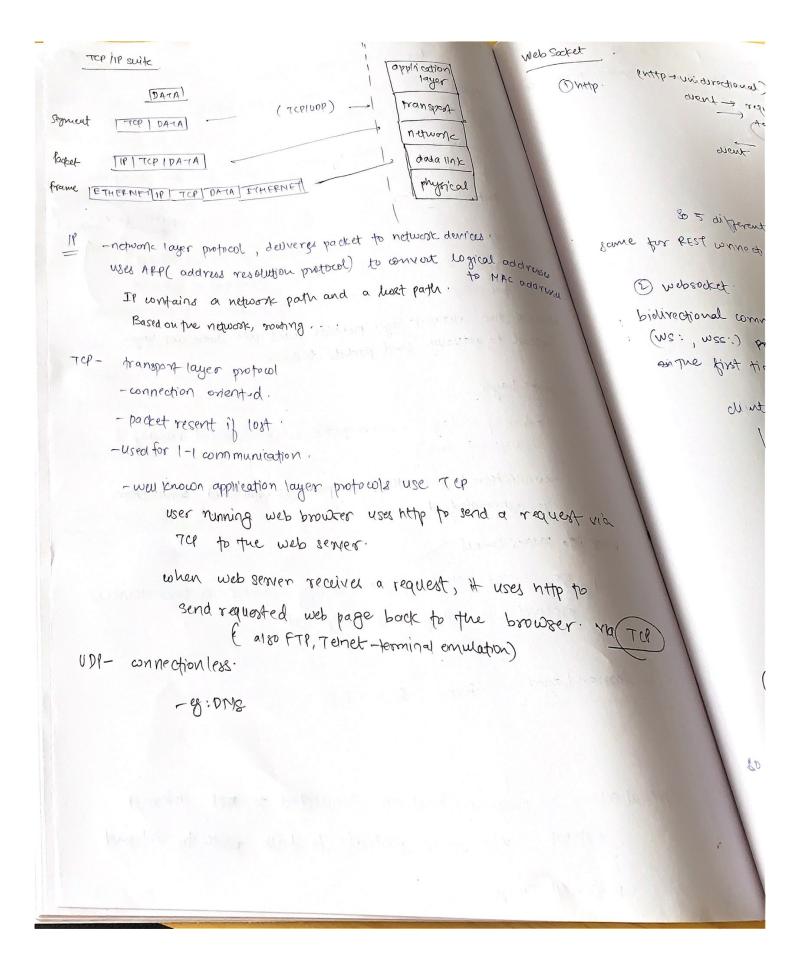
broak into padcets small,

protocol. It simply sends the packet.

Su session Layer - sessions

Applications— all programs that are connected to met intermet network, use some protocols to talk with to internet.

PNS1FTP, SHTP



Web Socket (nttp + unidirectional) chent - refrest (some-) ( Anty Inthos). top connection & 5 different requests, 5 different connections opened. same for REST wonnection., new request, new connection created. 1 websocket. biolivectional communication. (WS:, WSS:) protoco tratí how web suckets are created. an the first time the connection is opened, the connection stays open. sewer connection opened hondshake 6pen & persistent closed on connection one side closed.

Example: coinbase ui uses websocket to update various enjotocurrency values : socket io

so The use of websockets should not be done when real-time updates.

rest -> stateless query. no content maintained, some as little.

in rest response, there is no divice given the to retreive specific parametry is an ortion, in graphyl.

grape -> inter sorvice communication protocol.

(won then over 2.0)

API'S

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