\*\*Dito natin lagay mga notes natin :)\*\*

**Internet** - global network of networks(google)

- hierarcy, infrasturcture

INTER NETWORKING

**inter** - outside

**intra** - within the border

**Network** - interconnected devices ('nodes')

- share data

characterized by

1**.Hardware**

a. nodes - the actual devices i.e computers

IoT - Internet of Things

b.Interconnected Technologies - Wired - utp, fiber; Wireless - infrared,bluetooth

2.**software**

a.protocols

b.device drivers -software that run active (something missing here)

computer to computer - serial communication

- one cable, send data with 1s and 0s

Problems of wired and wireless - susceptible to noise

**LAN** - Local Area Network

interconnection of networks with the use of ISPs

different ISPs can connect with each other

connection between countries - underwater(preferred)/ satellite

**1969 - modern internet was born**

circuit switch network -- used by old telephones

store and forward - cellphones (texting)

**IPv4 - 32-bit**

**IPv6 - 64-bit**

**Early 1960's -->** DARPA (Defense Advanced Research Project Agency) --> packet switch

circuit switch - relaying and keeping the connection

packet switching

send and forward --> send-->store-->send-->...until it reaches the destination

**ARPANET** (Advanced Research Project Agency NETwork) --> 4 computers communicate

**First popular app --> email - 1972**

**World Wide Web** - information system that uses Hypertext links

- information system on the internet

- allows documents to be connected to other documents by hyperlinks

- was created for researchers and scientist to share their findings and research

- back then it is more textual

**Wide Area Information Service (WAIS)** - multiple server locations

- early information service

**Gopher (protocol)** - application layer protocol

- similar to WAIS

- hierarchical in nature

- distibuting, seraching, retrieving

**USETNET** - worldwide distributed discussion system

- similar to discussion groups

**1989 (Sir Tim Bernerns-Lee) --> HTTP, HTML, URL**

HTML -

URL -

HTTP - jointly developed by the 23c and the IETF

- standard way of communicating

Version history

HTTP 0.9 (1991)

HTTP 1.0 (RFC 1945, edited may 1996)

HTTP 1.1

HTTP 2

HTTP FUNDAMENTALS

web Server

Web Client

Semantic web - next step

- uses natural language