Module - 2: Application Layer - 3 Friday, January 28, 2022 10:14 AM
HTTP: information Resource is transferred from Server to client (PVLL technology)
SMIP in formation (email) is transferred from chieret (Senders muil sewer) to
SMTP: information (email) is transferred from chiert (Senders muil Sewer) to  Sewer (recipient's mail Server).  Components of SNIP  protocol.
HTTP -> 80 Web
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har latis MTP -> 25   electronic mell
MINE. Multipurpose Internet Mail Extensions
- Internet standard that extends the format of email messages to support text in character sets other the the ASCII, as well as attachments of andio, rideo, jmages, and application broguens.
to support text in contractor rides, images, and application well as attachments of andio, video, images, and application
programs.
- Menage body may harrists of multiple parts specified by the 'Condent-Type' header
Condent-Type header
- MINE header fields are inserted by HTTP sewers before any web transmission
- Clients use the 'Content-Type' header to select an aboropriate viewer application for the type of data
appropriate viewer approved

appropriate viewer application for the type of data indicated. Webmril: the user agents (both at sender and receiver side) are replaced by Web browsers. (DNS) - Domain Name System. Hostname - mnemories that are appreciated by humans.

- privide little information about the location within the Internet of the host. - Cen consist of rainble-length alphanumeric Characters that would be difficult to process by runters. (TP Addres) - Consists of 4 bytes and has a rigid hierarchical Structure (2PV4) - Gives specific information - where the host is becated in the Internet, who is the IsP, ... - Preferred by intermediate Printers. Services provided by DNS (1) Directory service: - translates wer-supplied hostname to IP address -

- translates been-supplied hostname to IP address -Community employed by other application byen protocols (HTTP, SMTP, and FTP)
  - distributed directory service resolves the 19 adorers of websites that are not present boully.
- 2) host aliasing; mapping between hostname (alias) and Commical host name.

## Mail Server aliasing

- · Comonical hostname of a mail sewer can be much more complicated and less mnemonic than its alias hostname.
- · DNS can be invoked by a mail application to obtain the Canonical hostname for a supplied alias hostname as well as the IP address of the host.
  - · (MX) record permits a company's mail sewer and Websewer to have identical (aliases) hostnames.

For e.g: Or company's Web Server and mail server combe both called enterprise.com.