Web Programming-I

- Focus: Use of Web for commercial applications
- Pace: Evolving from very primitive functionality to a very complex support -- Web Year

Commercial Activity on Web

- Example: Book Shop “www.amazon.com” Use of agents to customize and send email for new books to customer. Use of referrals.
- Example: Amp company.

Intranet

Use of WWW technology inside the corporate network to support applications such as:

- Corporate phone directory
- Details of 401K plan
- Group discussion and planning
- Calendar and rescheduling

Companies: Netscape, IBM Lotus Notes (Domino), Microsoft

Extranet

Apply Internet and WWW technologies (Open technologies) to support Business-Business communication

Example: Support for business partners, suppliers, and customers.

Snap-On Inc. -- $1.4 Billion Tool Manufacturing

Communicate with about 250 of its franchised dealer via its Netscape based Extranet
WWW History

Proliferation of LAN in 1970s

• Availability of inexpensive computers - Each department in an organization could afford one

• Need for connecting computers -- LAN

• Existing of many LAN technologies -- High speed costs more

Incompatible LAN Technologies

Various LAN technologies were incompatible but there was no interest in the industry to based their products on open standards/technologies

A particular LAN technology works only with specific computers -- Proprietary/closed

ARPA and Internet

Research funding to investigate different network technologies -- network based on packet switching

Island of networks -- not interconnected

Research funding to solve problem of interconnecting incompatible networks.

Internet -- A prototype system

Key Technologies

Router and TCP/IP

Open System

All specification in public domain

All research result in public domain

Examples:

Internet -- RFCs

UNIX

Initially developed at AT&T. Moved to Berkeley where TCP/IP was integrated
Internet Growth

ARPANET  →  NSFNET
(IBM, MCI, MERIT)

Around 12 million computers are connected to the Internet today!