

INTERNET AND INTERNET TOOLS

The full name of Internet is the International Network. Internet is the world largest computer network. It is the network of network. Internet is a huge repository of information on almost every topic imaginable. Users all over the world can search information, add new information and exchange views on different topics.

History of Internet

- The internet is a growing network established in the 1960s to meet the needs of the researchers working in the defense industry in the USA then called the ARPANET.
- The ARPANET or internet grew to 10,000 computers by 1987 and to more than 1,00,000 by 1989. In 1990 ARPANET ceased to exist, but internet continued to grow to an estimated : 1 million computers in 1992, 2million in 1993.
- The internet now offers both information access and a fast and inexpensive means of communication to the public.

Features of Internet

1. This global network is not owned by any single individual, company or country.
2. Information are available in different format such as text, graphical, audio-visual etc.
3. It has no central controlling body.
4. It is fully capable of handling an increase in the number of users and an increase in the volume of traffic.
5. It is the only way to connect globally.
6. Internet as a most important source of information.
7. TCP/IP is a standard protocol suite for internet.

Advantage of Internet

1. It is cheapest way of communication.
2. Fastest way of communication.
3. Generalized standard are followed because it is a public network.
4. Best mode of education and business.
5. Working with internet is not required very much skills.

Disadvantage of Internet

1. Inadequate security or dangers of hackers and cracker.
2. It has much garbage rather than valuable information.
3. Sometimes organizational productivity is reduced because employees are surfing the net for fun rather than for business purpose.
4. Wasting of time because searching & retrieval takes very much time.
5. Addiction provide the harms for body & society both.

Impact of internet

The internet and the web has significantly impacted the way the world communicates, educates, entertains and conduct business. These changes to human interaction have specific implications for designing web pages / web sites. Internet has influenced :

- **Communication**
- **Education**
- **Entertainment**
- **Business**

COMMUNICATION

- Email – Easily exchange information at any topic by e-mail
 - We can attach graphics, video, sound and other computer files.

EDUCATION

- The offers exciting, challenging new venues for formal and non- formal teaching and learning.
- We can also get information about correspondents and on-line courses.

ENTERTAINMENT

- Million of people turn to the web daily for entertainment because of its unique capability of offering an interactive, multimedia experience.
- Music, videos, sports, games, chat etc.

BUSINESS

- Electronic Commerce or e-commerce – is the conducting of business activities online, including shopping, investing and other venture that uses electronic money or electronic data interchange.

- You can also advertise or promote your product on the Web.

INTERNET TOOLS

We can classified the internet tools in four categories;

1. Information retrieval tools
2. Communication tools
3. Multimedia information tools
4. Information search tools

1. Information retrieval tools

- In this category include the FTP and Gopher.

FTP

- FTP (File Transfer Protocol) is a protocol that transfer or communicate file at the internet. It is a powerful tool to transfer files between computers.

- A file completely transfer by FTP which may be include program, sound, video, articles, database etc.

Gopher

- It is menu based service that established in April 1991 by Minis University, America for giving the answer by computer to computer.
- Earlier gopher was a local service but now this a global services.
- Gopher is a protocol designed to search, retrieve and display documents from remote sites on the internet.

2. Communication Tools

- In this category include the E-mail, Telnet & Usenet.

E-mail

- Electronic Mail; allows information to be sent between computer and people on the internet. It is a most widely used internet resource. Just as a written letter can be sent to multiple recipients, an e-mail message can be sent to one or more e-mail address.

Telnet

- Telnet is a protocol or set of rules that enables one computer to connect to another computer.
- Telnet also operates on the client/server principle.
- Telnet allows the user to access internet resources on other computers around the world.
- A variety of resources are available through telnet.

For example library catalogs, database and other internet tools.

Usenet

Usenet also known as NNTP (Network News Transfer Protocol). Its basic function is transfer of news and opinion to related subject available at the news groups. It is converted information news into Usenet format.

3. Multimedia Information Tools

- In this categories include

WWW

- WWW is world wide web the most popular service of internet. First www was developed by Tim Berners-Lee at CERN, a physics research center in Geneva (Switzerland).
- The www are prepared using the Hyper Text Transfer Protocol.
- It is used as a market place, art gallery, library, community center, school, publishing house and whatever else its authors create.

4. Information search tools

- In this categories include WAIS, ARCHIE and FAQ

WAIS

- The full name of WAIS is Wide Area Information Service. WAIS is an internet search tool that is based on the Z39.50 standard that describes a protocol for computer to computer information retrieval.
- It is based on client/server model. This system can be search all document related to a keyword.

Archie

- Archie is a searching program which can search all the FTP site at the available on the internet.
- Archie developed by McGill University of computer science.
- When we connect on Archie site the searching process starts than Archie shows the all related file, In which related directory and site address available.

FAQ

- The full form of FAQ is Frequently Asked Questions. In the FAQ some popular questions and their answers are available.
- In the FAQ, Q. and A. are related to an specific subjects, thus FAQ is a most important tool for knowing about any specific topic or subject

Other internet tools

- Win VN
- Veronica
- Mosaic
- Using Eudora in e-mail

INTRANET

- A private TCP/IP internetwork within an organization that uses Internet technologies such as web servers and web browsers for sharing information and collaborating.

Features of INTRANET

1. It supports the same protocols and services as the public Internet including e-mail, news, chat rooms and web pages.
2. It can be used to publish company policies and newsletters, provides sales and marketing staff with product information.
3. It is centralized control network.
4. It is normally designed to integrate an organization.

EXTRANET

Extranet is a semi-private TCP/IP network located outside the corporate firewall which provides selective internal information to business partners such as clients/ customers , venders, suppliers as well as to remote employees.

Features of EXTRANET

1. It is a corporate or business to business Intranet.
2. It is based on client/server model.
3. It is exposed over the Internet to certain specific groups that need access to it.
4. Extranet application developers must take into account a wider range of technologies than is the case for intranets.