#### Module 1 Introduction to Information and Communication Technologies

Lesson 6 What is the Internet?

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#### Rationale

The Internet is the global information network. Librarians must understand how it works and must be able to use it in accessing, organizing, publishing and delivering information

### Scope

- What is the Internet ?
- What Internet tools are available?
- What is the World Wide Web?
- What is e-mail? FTP? Chat?
- What are online information resources?
- Why is the Internet important to libraries?
- What are some issues and concerns in using the Internet?

## Learning Outcomes

- By the end of this lesson, you should be able to:
- Define what is the Internet and other Internet concepts and terms.
- Describe Internet tools and services.
- Identify information resources for libraries on the Internet.
- Use online information resources on the Internet.
- Realize the importance of Internet to libraries.
- Discuss some issues and concerns regarding the use of Internet in libraries.

## What is The Internet?

- The Internet is a global network of computers communicating under one set of guidelines, formally called Transmission Control Protocol/Internet Protocol (TCP/IP).
- The Internet is not a specific place, company, or service, although places, companies and services are accessible via the Internet. Nobody owns the Internet. It is also called the Web.

#### The Internet

The Internet is more than a physical network of wires linking individual computers to one another.



## It is also a network of people and information resources.

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# How do you Connect to the Internet?

- To have access to the Internet you need:
- a personal computer with a network card
- a modem
- a telephone line or DSL or cable
- an Internet Service Provider

## Web Components

- Web servers
- Web browsers
- Search engines
- Hypertext Transfer Protocol
- Hypertext Markup Language
- Uniform Resource Locators (URL) and Web pages
- Information resources

#### Web Browsers and Servers



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## **HTTP and HTML**

- Web servers and browsers use HyperText Transfer Protocol (HTTP), an Internetstandard protocol, to handle the transfer of text and other files between different computers.
- HTTP "defines how messages are formatted and transmitted, and what actions web servers and browsers should take in response to various commands."
- HTML defines how web pages are formatted and displayed by web browsers

### The World Wide Web

- The World Wide Web (WWW) is the collective name for all the computer files in the world that are accessible through Internet web servers.
- The files are accessible through the use of HyperText Transfer Protocol (HTTP), HyperText Markup Language (HTML), browsers, and the Uniform Resource Locator.

#### Domain Name Server (DNS)

 The Domain Name System converts host names (web server) and domain names into IP addresses on the Internet or on local networks that use the TCP/IP protocol.

An example of a DNS is: mail.cslib.upd.edu.ph Its IP address 165.220.19.30

#### Hypertext Links between Web Resources

- Hyperlinks are special HTML codes included in web pages that connect web resources, instruct the browser to fetch a resource, run an application or jump to another site.
- Hyperlinks consist of the following:
  - HTML tags instruct web browser and web servers what file to get or what program to run, include URL's and/or pointers to applications and files to run
  - Anchor text or image used to place a hyperlink, the clickable object that activates the hyperlink
  - Uniform Resource Locator (URL) address of web resources

#### Uniform Resource Locators

- The Uniform Resource Locator (URL) is used to locate resources on the Internet. It contains
- http:// -- for the hypertext transfer protocol which may or may not be followed by www
- the Domain Name
- and the location of the file or resource in the computer.
- Example http://rizal.lib.admu.edu.ph/catalog

#### Ways to Locate Information

- Net surfing
- Search engines
- Meta-search tools
- Subject
  directories
- Virtual libraries

- Newsgroups
- Mailing lists (Listservs)
- Library catalogs
- Online databases
- e-journals
- Organizations
- Other services

## **Information Materials**



 Sound Images •Video Animation •Full-text Statistical data Abstracts/Indexes Software Library catalogs

News and more

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•Text

#### Sites with Free Information Materials

- General Reference Materials
  - Encyclopedias
  - Dictionaries and thesauri
  - o Almanacs
  - o Other
- Books
- Journals

- Specialized Materials
  - o Mathematics
  - Language and grammar
  - o Literature
  - Science and technology
  - o History
  - Library Science

## What can you do on the Internet?

- Send messages via Electronic Mail
- Talk/Chat
- Access information via the World Wide Web
- Transfer files (FTP)
- Other



#### Issues

- Accuracy of documents
- Authority of web documents
- Currency of information
- Limitations in technology
- Credibility of the site where it is published (domain name)
- Copyright and IPR
- Anybody who knows how can publish on the Net.



#### Why is the Internet Important to Librarians?

- Many information resources may be accessed through the Internet:
  - online library catalogs
  - o documents in various formats
  - o databases
  - educational and information services
- Documents can be sent through the Internet (e.g, e-mail, FTP, file-sharing)
- Librarians can communicate with people using e-mail, chat, newsgroups etc...