

# & E-Commerce

- · Conduct business
- · Sell products and services online
- · Communicate with other businesses & customers
- · Examples:
- noon.com
- Amazon.com



## Purposes of Website

- · E-Commerce
- · Personal Use
- Information Source

Web

## **Definition**

The Web is a collection of software and protocols that has been installed on most computers on the internet

#### Client and Server

Clients and Servers are programs that communicate with each other over the Internet

- · A Server runs continuously, waiting to be contacted by a
- · A Client will send a message to a Server requesting the service provided by that server

# Negring Meaning

- ☐ **Web server:** a system on the internet containing one or more
- ☐ Web site: a collection of one or more web pages
- ☐ Web pages: single file with a single file name
- ☐ Home pages: first page in website

### Cookies

Used by Web servers to differentiate users and to maintain data related to the user during navigation

#### Secured Site

https protocol on URL address

## Web Browser

A tool for travelling the Internet

- · Client software for viewing WWW pages
- A multimedia interface allowing integration of text. graphics, audio and video

#### Web Browser

- ☐ The purpose of a web browser (Chrome, IE, Firefox, Safari) is to read HTML documents and display them
- ☐ The browser does not display the HTML tags, but uses them to determine how to display the document



# Internet Protocols

The Internet Protocol (IP) is a set of requirements for addressing and routing data on the Internet



# **Definitions**

The Internet is a collection of computers and other devices connected by equipment that allows them to communicate with each other

Internet

- → Internet is a network of networks, linking computers to
- → Internet is the transport vehicle for the information stored in files or documents found through or using the internet on another computer



## URL (Uniform Resource Locator)

http:// → Communication protocol

www.w3schools.com → Web server hosting the page

/html → Path to the page on the host server

html\_intro.asp → Filename of the page

## (III) Domain Names

Domain names are formed by the rules and procedures of the Domain Name System (DNS).

Any name registered in the DNS is a domain name

(uoh.edu.sa) = IP (192.168.8.8)

- · First domain is the smallest; last is the largest (UOH)
- · Last domain specifies the type of organization (SA)
- · DNS servers convert domain to IP



# Internet Protocol (IP) Addresses

- · Every node has a unique numeric address
- Form: 32-bit binary number (New standard, IPv6, has 128 bits (1998))
- · Organizations are assigned groups of IPs for their computers
- The IP got longer from 32 bits to 128 bits, because of the increase in the number of websites
- Nodes are devices connected to the internet

# TTP/TELNET

FTP: File Transfer Protocol allows us to transfer files between two different computers on the Internet

TELNET: The Internet allows computers to converse with each other over networks

