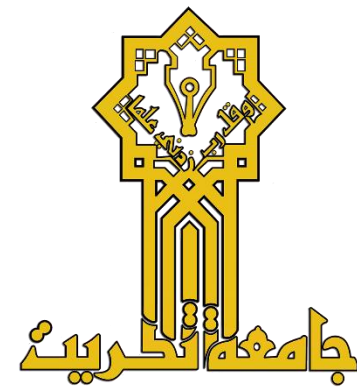




WEB PROGRAMMING



Department of Computer Sciences
Academic Year: 2023-2024
First stage
Semester: Two

Lecture - 2

By:
Harith Abdullah
Yahya Layth Khaleel

Browsers

- A web browser or Internet browser is a software application for retrieving, presenting, and traversing information resources on the World Wide Web.
- Primary function of a browser is to identify the URI and brings the information resource to user.
- All major browsers allow users to access multiple information resources at the same time in different windows or in tabs. Major browsers include pop up blockers to prevent windows to open without users consent.
- Some special web browsers are Internet Explorer, Mozilla, Firefox, Google Chrome, Safari, Opera, Mobile browsers.

Browsers

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Main Elements of Web Browsers



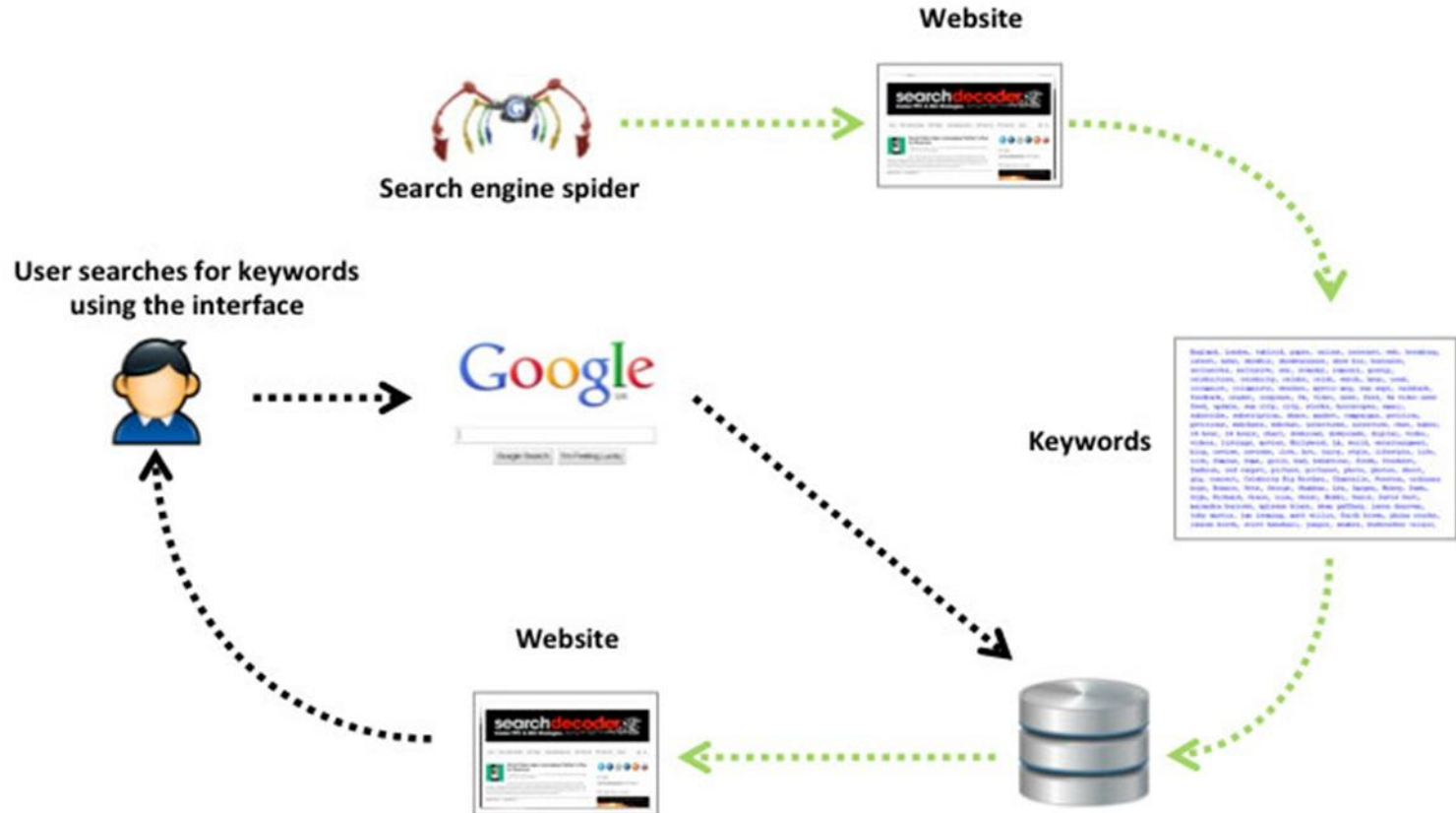
Search Engine

- A web search engine is designed to search for information on the World Wide Web and FTP servers. The search results are generally presented in a list of results and are often called hits. The information may consist of web pages, images, information and other types of files. Some search engines also mine data available in databases or open directories.

Search Engine

- Web search engines work by storing information about many web pages, which they retrieve from the html itself. These pages are retrieved by a Web crawler (sometimes also known as a spider)— an automated Web browser which follows every link on the site.

Search Engine



Client and Server

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

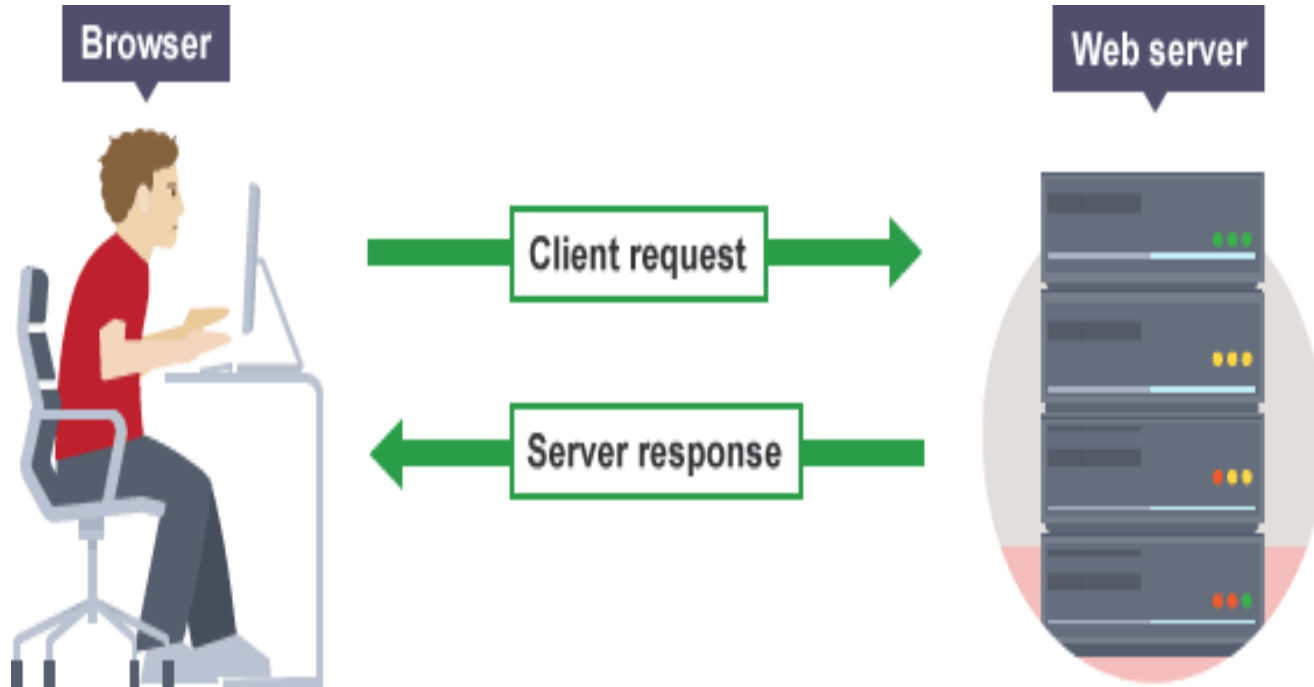
1. A Server runs continuously, waiting to be contacted by a Client.

- Each Server provides certain services.
- Services include providing web pages.

2. A Client will send a message to a Server requesting the service provided by that server.

The client will usually provide some information, parameters, with the request.

Client and Server



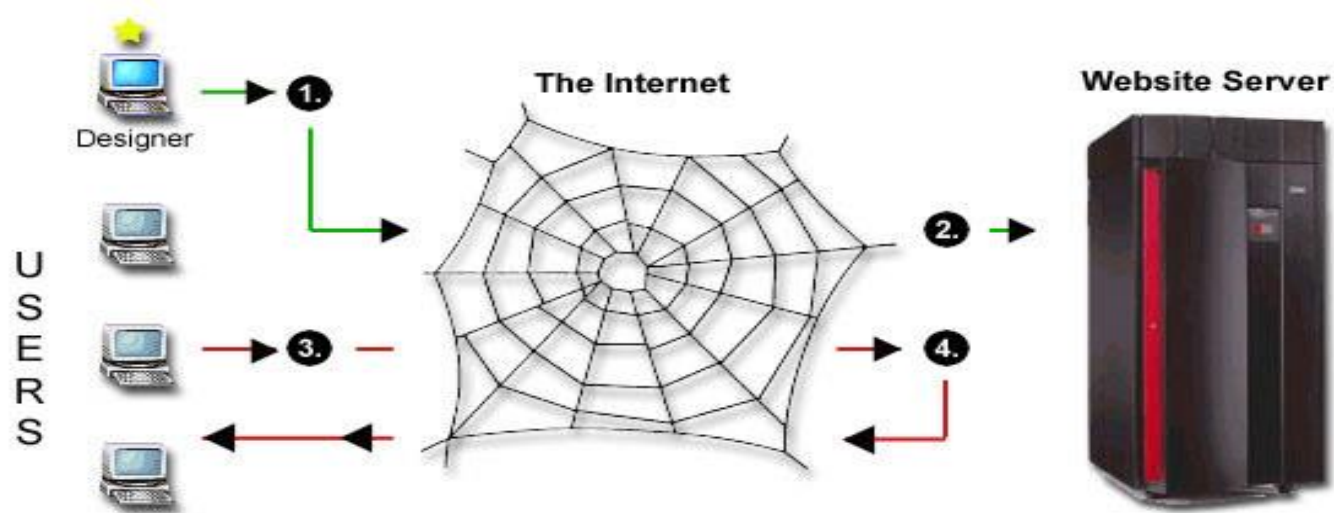
World Wide Web (WWW)

- The World Wide Web, abbreviated as WWW or W3 and commonly known as the Web, is a system of interlinked hypertext documents accessed via the Internet.
- The World-Wide Web was developed to be a pool of human knowledge, and human culture, which would allow collaborators in remote sites to share their ideas and all aspects of a common project.
- With a web browser, one can view web pages that may contain text, images, videos, and other multimedia and navigate between them via hyperlinks.

Web ≠ Internet

- The terms Internet and World Wide Web are often used in everyday speech without much distinction. However, the Internet and the World Wide Web are not one and the same.
- Internet: a physical network connecting millions of computers using the same protocols for sharing/transmitting information (TCP/IP).
- World Wide Web: a collection of interlinked multimedia documents that are stored on the Internet and accessed using a common protocol (HTTP).
- **Key distinction: Internet is Hardware; Web is Software.**

Web ≠ Internet



1. The Designer creates a page and sends it to a server for storage.

2. The server stores a copy of the page for everyone to see.

3. The user asks the server for a copy of the page.

4. The server sends a copy of the page to each user who requested it.

Internet and Intranet

Generally, most of people confused between internet and intranet. While there is exist lots of differences to differentiate them.

Internet:

Internet is used to connect different network of computers simultaneously. It is a public network therefore anyone can access the internet. In internet, there are multiple users and it provides unlimited number of information to the users.

Intranet:

Intranet is the type of internet which is used by privately. It is a private network therefore anyone can't access intranet. In intranet, there are limited number of users and it provides limited number of information to its users.

Internet and Intranet

No.	Internet	Intranet
1	Internet is used to connect different network of computers simultaneously.	Intranet is owned by private firms.
2	In internet, there are multiple users.	In intranet, there are limited users.
3	Internet is unsafe.	Intranet is safe.
4	In internet, There are more number of visitors.	In intranet, There are less number of visitors.
5	Internet is a public network.	Intranet is a private network.
6	Anyone can access Internet.	In this, anyone can't access the Intranet.
7	Internet provides unlimited information.	Intranet provides limited information.



THANK YOU