

## INTRODUCTION TO WEB DESIGN

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### \* Internet :-

The internet is the global system of interconnected computer networks that uses the Internet protocol suite (TCP/IP) to communicate between networks and devices. It is a network of networks that consists of private, public, academic, business and government networks of local to global scope, linked by a broad array of electronic, wireless and optical networking technologies.

### \* What is an IP address?

→ IP address stands for internet protocol address. Every PC / Local machine is having an IP address and that IP address is provided by the Internet Service Providers (ISPs).

### \* World Wide Web (www)

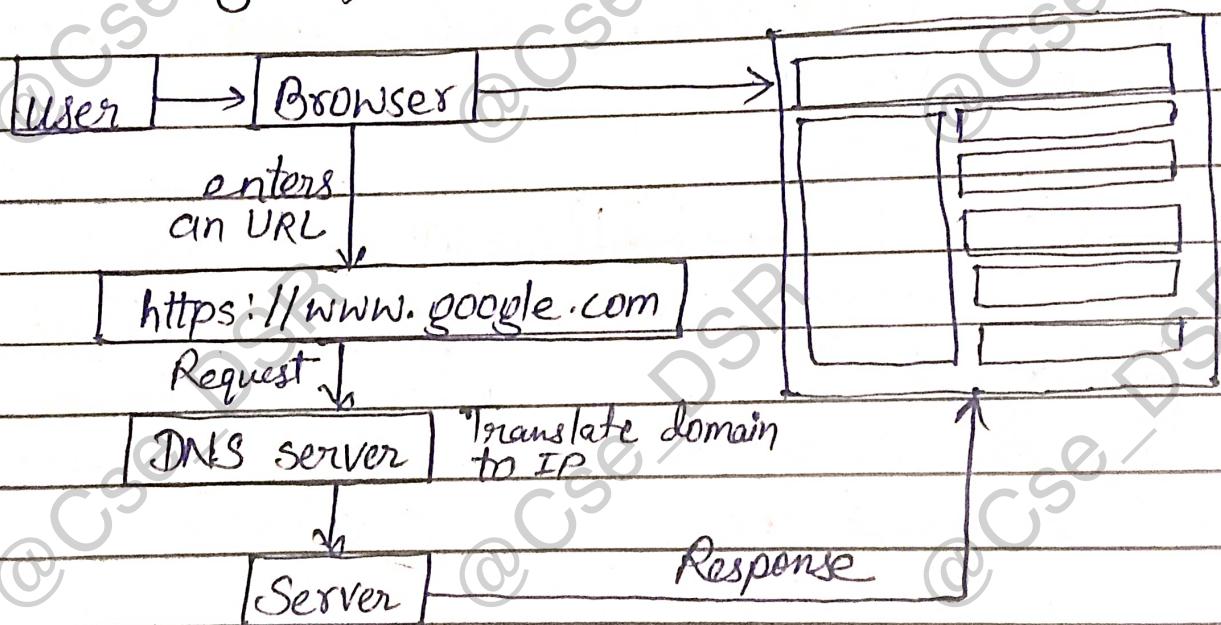
The world wide web is a collection of all the web pages, web documents that you can see on the Internet by searching their URLs (Uniform Resource Locator) on the Internet.



\* Website:-

A website is a collection of web pages and related content that is identified by a common domain name and published on at least one web server! Ex! - amazon.com, wikipedia.org, google.com etc.

\* Working of website:-



→ First, we type the web address into your browser.

→ The browser goes to the DNS server and find the real address of the server that the website lives on.

→ The browser send an http request message to the server, asking it to send a copy of website to the client.

- This message and all other data send between the client and the server is send across your internet connection using TCP/IP.
- If the server approved the client request, the server sent the client an "OK" message. And then starts sending the website file to the browser as a series of small chunks called data packets.
- Browser assembles the small chunks (i.e., data packet) into a complete webpage and display it to us. Now, webpage or website is opened.

### \* Webpages :-

A webpage is a hypertext document provided by a website and displayed to a user in a web browser.

### \* Front end and back end :-

Any software or website has two parts:-  
i) Front end and ii) Back end ; after connecting both websites or software works properly.  
Front end provide the facility where user can interact with back end (i.e; data base). We always stores all informations in the back end or database.  
Both are the important part of any s/w or website.



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## \* Client, server scripting language :-

Client server scripting language ; it shows the conversation between the client computer or server (main computer). It is the one of the important part of client server conversation. Its use only in case of website, not for s/w.

→ There are different scripting language like HTML, PHP, Java script, Perl, Bash etc.

## \* Responsive Web designing:- (RWD)

→ It is a web development approach that creates dynamic changes to the appearance of website, depending on the screen-size and orientation of the device being used to view it.

→ It is not any programming or scripting language.

→ It is mostly used in HTML.

→ It is one approach to the problem of designing for the multitude of devices available to customers, ranging from

tiny from phones to desktop monitors.  
It's insure that elements fit within the page.

## \* Types of Website :-

↳ There are two types of website :-

- i) Static website.
- ii) Dynamic website

### i) Static Website :-

Static website is the basic type of website that is easy to create. You don't need the knowledge of web programming and database design to create a static website. Its web pages are coded in HTML.

The codes are fixed for each page so the information contained in the page does not change and it looks like a printed page.

### ii) Dynamic Website :-

Dynamic website is a collection of dynamic web pages whose content changes dynamically. It accesses content from a database or Content Management System (CMS). Therefore, when you alter or update the content of the database, the content of the website is also altered or updated.



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- Dynamic website uses client-side scripting or server-side scripting, or both to generate dynamic content.
- Client side scripting generates content at the client computer on the basis of user input. The web browser downloads the web page from the server and processes the code within the page to render information to the user.
- In server side scripting, the software runs on the server and processing is completed in the server then plain pages are sent to the user.

Server → Database → Client / Browser

### \* Static vs Dynamic website

#### Static website

- i) Prebuilt content is same every time the page is loaded.
- ii) It uses the HTML code for developing a website.

#### Dynamic website

- i) Content is generated quickly and changes regularly.
- ii) It uses the server side languages such as PHP, SERVLET, JSP, and ASP.NET etc for developing a website.





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- It sends exactly the same response for every request.
- The content is only changed when someone publishes and updates the file (sends it to the web server).
- Flexibility is the main advantage of static website.
- It may generate different HTML for each of the request.
- The page contains "server-side" code which allows the server to generate the unique content when the page is loaded.
- Content Management System (CMS) is the main advantage of dynamic website.