

Session 1

13-02-2022



Content



- ✓ How does the web work ?
- ✓ What do you need to be web developer ?
- ✓ What is the role of web developer ?

How does the web work ?

- Computers connected to the web are called clients and servers.
- In addition to the client and the server, we also need to call out to:
 - internet connection: Allows you to send and receive data on the web.
 - TCP/IP: Transmission Control Protocol and Internet Protocol are communication protocols that define how data should travel across the internet.
 - DNS: Domain Name System is like an address book for websites. When you type a web address in your browser, the browser looks at the DNS to find the website's IP address before it can retrieve the website. The browser needs to find out which server the website lives on, so it can send HTTP messages to the right place.
 - HTTP: Hypertext Transfer Protocol is an application protocol that defines a language for clients and servers to speak to each other.



How does the web work ?

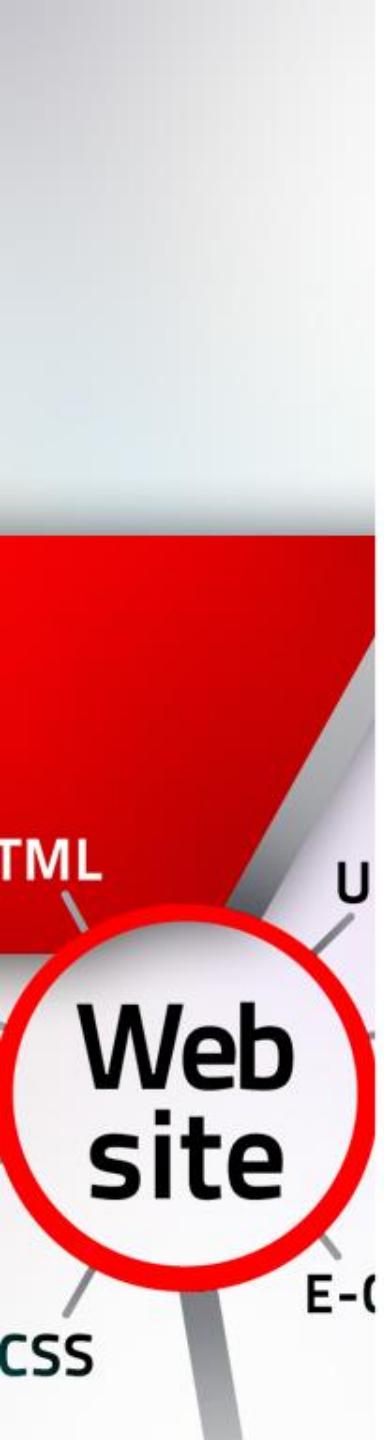
- So what happens, exactly?
- When you type an URL (web address) into a web browser, this is what happens:
- If the URL contains a domain name, the browser first connects to a domain name server and retrieves the corresponding IP address for the web server.
- The web browser connects to the web server and sends an HTTP request (via the protocol stack) for the desired web page.



How does the web work ?

- The web server receives the request and checks for the desired page.
 - If the page exists, the web server sends it.
 - If the server cannot find the requested page, it will send an HTTP 404 error message.
 - The web browser receives the page back and the connection is closed.
- The browser then parses through the page and looks for other page elements it needs to complete the web page.
- For each element needed, the browser makes additional connections and HTTP requests to the server for each element.
- When the browser has finished loading all images, applets, etc. the page will be completely loaded in the browser window. This page was made by a web developer, so what do you need to be a web developer ?





What do you need to be web developer ?

- To become a Web Developer :
 - you should have an understanding of HTML, CSS, and JavaScript.
 - It's also recommended to learn about CSS and CSS frameworks.
 - Developing these fundamental web development skills will give you the foundation and logic for communicating with programming languages.
 - A web developer needs to be smart and agile in their work. When something goes wrong in the development process, one cannot afford to start over with a project from scratch again.
- And, if you become a web developer what are your roles then ?

What is the role of web developer ?

- A web developer's job is to create websites. While their primary role is to ensure the website is visually appealing and easy to navigate, many web developers are also responsible for the website's performance and capacity.
 - Designing user interfaces and navigation menus
 - Writing and reviewing code for sites, typically HTML, JavaScript
 - Integrating multimedia content onto a site
 - Testing web applications
 - Troubleshooting problems with performance or user experience
 - Collaborating with designers, developers, and stakeholders





Thank you