Starting point to your web development career

COMPLET HTML FROM ZERO TO EXPERT

Today's Agenda

- Web Development Basics
- Internet , Web , Difference
- Http, URL, Website
- Web Server, Web browser, DNS
- Domain name, Domain extension
- 6 Setting development environment
- Introduction to html

WHAT IS INTERNET?

- The Internet, sometimes called simply "the Net," is a worldwide system of computer networks
- a network of networks in which users at any one computer can get information from any other computer (and sometimes talk directly to users at other computers)

WORLD WIDE WEB (WWW)

- A technical definition of the World Wide Web is All the resources and users on the Internet that are using the Hypertext Transfer Protocol (HTTP).
- In simple terms, The World Wide Web is a way of exchanging information between computers on the Internet, tying them together into a vast collection of interactive multimedia resources.

INTERNET VS WEB

• The key difference between the Internet and the World Wide Web (WWW or the Web) is that the Internet is a global connection of networks while the Web is a collection of information that can be accessed using the Internet. In other words, the Internet is the infrastructure and the Web is a service on top.

HTTP

- HTTP stands for Hypertext Transfer Protocol. This is the protocol being used to transfer hypertext documents that makes the World Wide Web possible.
- A standard web address such as http://www.yahoo.com is called a URL and here the prefix http indicates its protocol

URL

- URL stands for Uniform Resource Locator, and is used to specify addresses on the World Wide Web.
- A URL is the fundamental network identification for any resource connected to the web (e.g., hypertext pages, images, video , audio ...).
- A URL will have the following format
 - Protocole://www.domain name/other_information

WEB SERVER

- Every Website and web application sits on a computer known as a Webserver whichis always connected to the internet.
- Every Web server that is connected to the Internet is given a unique address made up of a series of four numbers between 0 and 256 separated by periods. For example, 68.178.157.132 or 68.122.35.127.
- When you register a Web address, also known as a domain name, such as youtube.com you have to specify the IP address of the Web server that will host the site.

WEB BROWSER

- Web Browsers are software installed on your PC. To access the Web you need a web browsers, such as chrome, Microsoft Internet Explorer or Mozilla Firefox.
- On the Web, when you navigate through pages of information this is commonly known as browsing or surfing.

DNS

- DNS stands for Domain Name System. When someone types in your domain name, www.example.com, your browser will ask the Domain Name System to find the IP that hosts your site.
- When you register your domain name, your IP address should be put in a DNS along with your domain name. Without doing it your domain name will not be functioning.

DOMAIN NAME

• A domain name is part of your internet address that comes after (www)

For example: https://www.example.com

easy to type.

- in the example above the example is the domain name
- Your domain name becomes your business address, so take care while choosing a domain name that it should be meaningful, easy to remember and

DOMAIN EXTENSION

- There are many types of domain extension that you can chose for your domain name. depending on your business nature
- For example if you are going to register a domain name for educational purpose then you can choose a .edu domain extension.

DOMAIN EXTENSION...

- some of the other extensions you can choose from are:
 - com (stands for company/commercial, but it can be used for any website)
 - org (stands for organization and it is supposed to be for non-profit organizations)
 - ca (if you offer services in a specific country, you can choose a country specific extension)
 - info (info domains can be used for website that share information and news)
 - .tv (more appropriate for tv channel websites)

TOOLS REQUIRED TO GET STARTED

- 1. A code editor e.g (vscode, notepad++, sublime text, bracket....)
- 2. A web browser to see our code result e.g (chrome, mozilla firefox, safari, opera....)

INTRODUCTION TO HTML

- HTML is the standard markup language for creating Web pages.
- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags

the page

• Browsers do not display the HTML tags, but use them to render the content of

A SIMPLE HTML DOCUMENT

```
<!DOCTYPE html>
<html>
<head>
  <title> Page Title </title>
</head>
 <body>
      <h1> My First Heading </h1>
       My first paragraph. 
</body>
</html>
```

A CLOSER LOOK AT HTML TAGS

- HTML tags are element names surrounded by angle brackets:
 - <elementName> content goes here... </elementName>
 - this is a paragraph
- HTML tags normally come in pairs like and
- The first tag in a pair is the start tag, the second tag is the end tag or closing tag
- The end tag is written like the start tag, but with a **forward slash** inserted before the tag name

THE <!DOCTYPE> DECLARATION

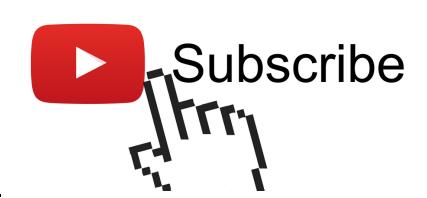
- The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.
- It must only appear once, at the top of the page (before any HTML tags).
- The <!DOCTYPE> declaration is not case sensitive.
- The <!DOCTYPE> declaration for HTML5 is: <!DOCTYPE html>

HTML, HEAD, BODY, TITLE

- Every html document must start with an html tag and end with (html)
- Before the 'body' element you will often see a 'head' element.
- This contains information about the page (rather than information that is shown within the main part of the browser).
- The content of the **<title>** element are shown in the top of the browser where you usually type in the URL of the page you want to visit.
- Every thing inside the **body** element are shown in the main browser window.

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Thank you

Have a great day ahead.