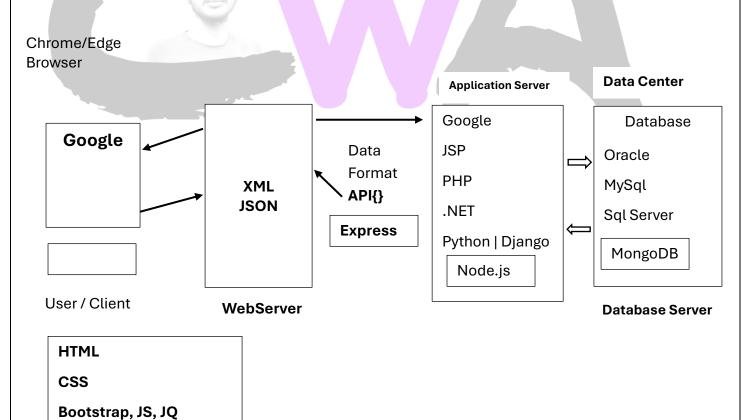
HTML NOTES E-BOOK

- 1. What is UI?
 - a. User Interface
- 2. What is UX?
 - a. User Experience
- 3. What is UI?
 - a. User Interface
- 4. What is UX?
 - a. User Experience is a part of UI.
- 5. Note: Ul is presentation and UX is behaviour
 - a. UI => HTML, CSS, JavaScript
 - b. UX => jquery, responsive design react, angular

What is Full-Stack?

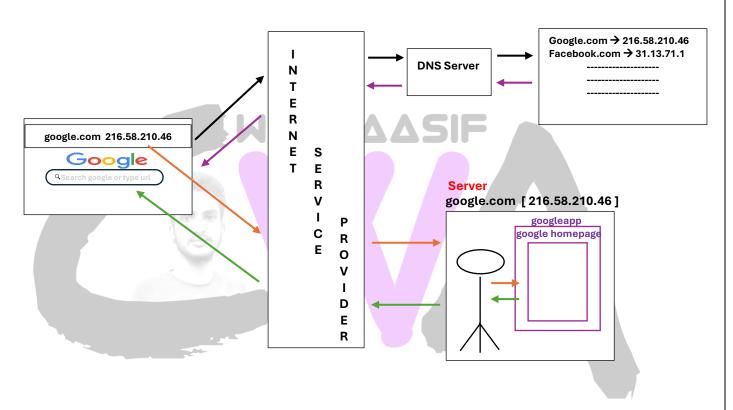
Angular, React



Web Applications

- 1. What is a network?
 - a. A group of computers connecting with each other for sharing of information and resources.
- 2. What are the ious types of networks?
 - a. LAN, MAN, WAN
 - b. What is internet?
 - c. It is a WAN all over the world.

How internet works When we type www.google.com at your address bar:



- → First request will be sent to our Internet Service provide [ISP]
- → Internet Service provider will connect with DNS[Domain Naming Server] Server which has the database of domain names and their IP addresses.
- → Internet Service provider will get IP address of www.google.com and send to the computer browser from which the request is coming.
- → Client browser will send request with Server IP address to Internet Service Provider then Internet Service provider will forward request to the actual Server, that is, google.com.
- → Upon recieving request, Server will identify the requested resource[webpage] and server will send back that requested resource[web page] to client.

HTML [Hyper Text Markup Language]

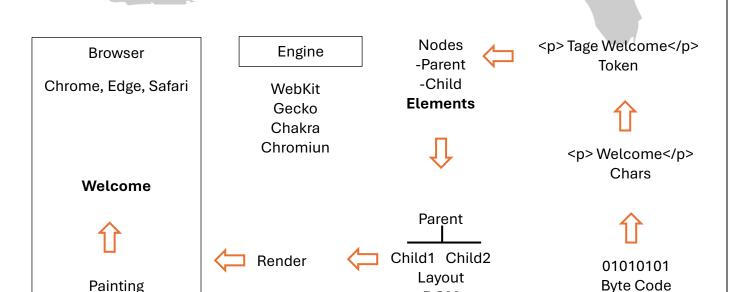
- 1. The term "Hyper" means "Beyond"
- 2. Hyper Text comprises of content beyond what you see.
- 3. Markup is general computer term derived from "Marking Up"
- 4. Markup language is a language used for presentation.
- 5. It is used for presenting on Browser.

Evolution

- -The first Markup language used for Internet was GML built by CERN
- -After GML [Generic Markup Language) We use SGML [Standard] -
- -1990's "Tim Berner Lee" introduced the concept of "Web" & HTML.
- -HTML is superset to GML and SGML.
- IETF Group started developing HTML upto 3.2
- -2004 W3C and WHATWG started developing HTML
 World Wide Web Consortium

Web Hyper Text Application Technology Work Group

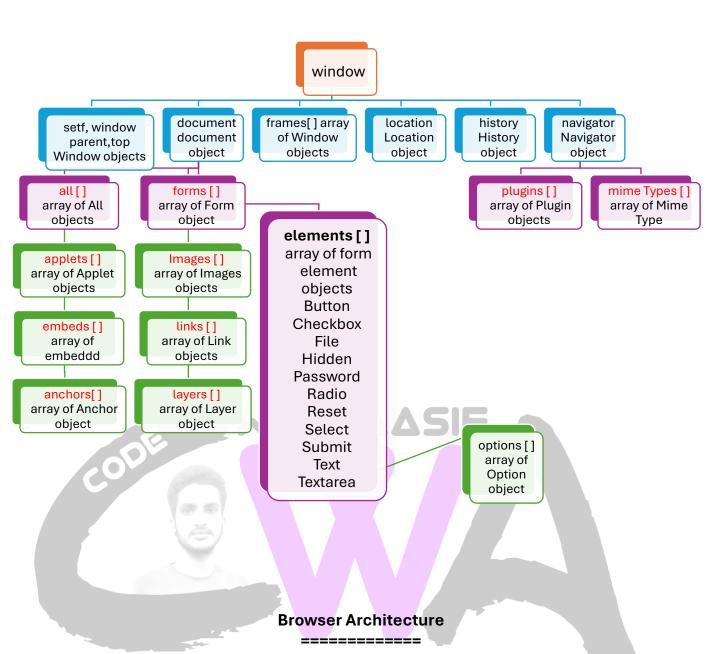
- -HTML Version 4,
- -HTML Latest Version 5.



DOM

HTML Page Welcome

Browser Architecture



Markup => Bytes => Chars => Token => Elements => DOM => Layout => Render => Paint

HTML is a collection of Elements arranged in a Hierarchy called DOM. [Document Object Model]

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HTML Elements are classified into 5 Groups

1. Normal Elements

HTML Elements are classified into 5 Groups

- 1. Normal Elements
- 2. Void Elements
- 3. RC Data Elements
- 4. Raw Text Elements
- 5. Foreign Elements

Normal Elements:

- It returns a presentation directly on call back.
- It doesn't require additional attributes.
- It starts but can't stop implicitly.
- You have to stop explicitly by using end token.

start tag end tag

Void Elements:

- -The term void means no return value.
- It will paint only content asked to.
- -Doesn't require end tag

RC Data Elements

-Rich Content Data Elements

These elements will not allow any another element with in the context.

>

Welcome to HTML It is a mark-up language.

<textarea>

Welcome to HTML It is a mark-up language.

Raw Text Elements

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Above is these are not tokens. these are normally group of chars

Foriegn elements

1. such type of elements can't work directly, such element depends on External library

That a called Foreign elements.

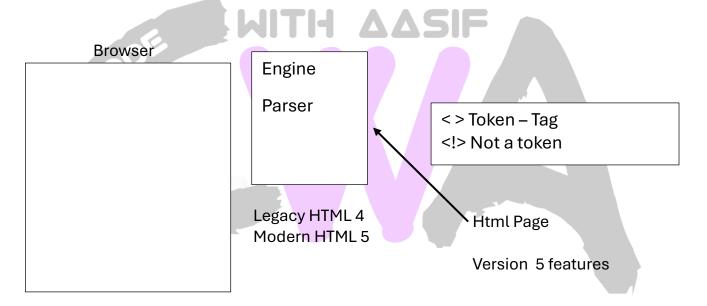
For example: SVG, MathML, Canvas etc

HTML Page Structure

1. HTML Static page will have extension ".html or .htm"

FAQ: What is difference between .html and .htm? Ans: No-difference

2. Static Page starts with "Document Declaration



2. Static Page starts with "Document Declaration"

<!DOCTYPE html>

It defines that we are using HTML 5

3. Page must contain Document Scope

<html>

</html>

4. A document can display contents belonging to various regional language.

- 5. Every Document scope Comprtses of 2 Sectione
 - a) Head <head> </head>
 - b) Body <body> </body>

Browser

Memory

HTML Page
Head
content-1
Body
content-2

Head Section:-

It comprises of content which is intended to load into browser memory

WITH AAS

HTML lead section usually comprises.

- 1. title
- 2. link
- 3. meta
- 4. script
- 5. style
- **1. Title :-** Title contains text to display in browser title bar. Title is also used in bookmark.
- 2. Link: It is used to link external link to webpage.

3. Meta in Head:-

meta defined meta data.

It contains, information about your application given to browser and SEO.

SEO (Search Engine Optimization)

SEO makes your page search engine friendly.

Search is done by "web spiders and web crawlers" [BOTS] meta is one of the SEO feature that maker page SEO friendly meta is also used to design responsive page.

<HTML lang="eng">
<meta charset="utf-8 / utf-16 / utf-32">
utf = Unicode transformation format

8-Bit 16-Bit 32-Bit Eng Korean Arabic

China Japan Charset:- It is required to defined the type of language used. 8-bit English, 16-bit-kaca, China, Japan 32-bit Arabic

4. Script:- It is used to embed script into page.

```
<script type="script.js"></script>
```

5. Style :- It is used to embed style into page.

```
<style type="style.css"></style>
```

Ex:-

<head>

h1{
 calor: white;
 backgrowd-Color: green;
 border: 2px solid black;
 padding: 10px;
 text-align: center;
 border-radius: 30px;
 }
</style>

Bady section:-

- →The body Section is defined by using <body> element.
- → Body is defined by using fallowing attributes.
 - 1. bgcolor
 - 2. background
 - 3. text
 - 4. align
 - 5. alink
 - 6. vlink
 - 7. leftmargin
 - 8. rightmargin
 - 9. bottommargin
 - 10. topmargin



Background:- <body background="./anji.jpg"> </body>

→ It is used to set background storage Image for body section.

Syntax:-

<body>
body background="image-Path"></br>

Note: - Abways use only virtual et Reth for resources.

[image]

Don't we physical path

Q. what is virtual Path?

Ans. Virtual Path is the local reference Path of resource in Project.

- 1. First copy the image into your project local folder.
- 2. Access from the folder without mentioning drive name. L.D, E).

E: \Image shose-jp Physical.

Image/shase. Jpg Virtual.

back, slash only physical Path.

forward slash only is used virtual Path.

To control background image you can apply the Following attributes.

background-repeat: repeat / no-repeat/repeat-x/repeat-y;

background-position: top, center, bottom, left, center, right;

background-size: width px, hight px/cover/contain;

background-attachment: fixed/scroll;

Q. Can we make background image lighter, darker or transparent?

Ans. You can't define by using any css attributes. You can implement by using alpha colors with containers.

```
# Syntax:
               <head>
                    <style>
                         body{
                               background-repeat: no-repeat;
                               background-position: center center;
                               height: 500px;
                               background-attachment: fixed;
                         div{
                               background-color: rgba(0,0,0.05);
                               heigh: 600px;
                               margin: -50px;
                               }
                    </style>
               </head>
               <body><br/>body background="/image.jpg"></br>
               <div>
               </div>
               </body>
```

Body Semantic Elements

- → Upto HTML 4 body section is designed by using Tables.
- →Tables lead to a situation called "Kiss-of-Death".
- →Tables are not SEO Friendly
- →HTML 5 Introduced new elements into Body section to design a lag layout that can be SEO Friendly.
- → The new elements of HTML 5 body section are:
 - 1. aside
 - 2. article
 - 3. dialog
 - 4. figure
 - 5. figcaption
 - 6. header
 - 7. footer
 - 8. Main
 - 9. nav
 - 10. menu
 - 11. section
 - 12. div
 - 13. span
- → All are containers

<aside>

your content

</aside>

- →Div defines blocked content
- →span defines inline content.

1. Add <style> container in <head> section

```
<head>
<style>
</style>
</head>
```

2. You can add style into styles container

```
selector {
    attribute: value;
    attribute: value;
    AASIF
```

Note: Select definer where you want to apply effects, to which element.

style Attributes

background-color: set background color;

color: set text color;

text-align: set alignment left, center, right, justify;

border:set border;

[size, style, color]

border: 2px Salid/dotted/dashed red;

margin-left padding-left

margin- right padding-right

margin-top padding-top

margin-bottom padding-bottom

margin: all directions padding: all directions

border-radius: curved border [Pixel];

height: height of clement,

Width: width of element;

→ Distribute Contents into multiple columns:

display: grid

grid-template-columns how many columns and size max 12 columns

Note: Columns width in pixels of Fractions.

pixels: max 1200px Fixed size

fr: max 12 WITH $\Delta\Delta$ SIF

adjust according to browser

</html>

Columns can be defined by using.

- a) display: grid
- b) columns

Display: Grid: Every column is individual. Contents of one Colum will not span to next column

Columns: It is used for continous columns. The content will span to next Column when if it's the Previous.

```
Syntax:-
         #container {
                    columns: 3;
                    }
         #container {
                    display: grid;
                    grid-template-columns: 2fr 10fr;
```