12/09/2023

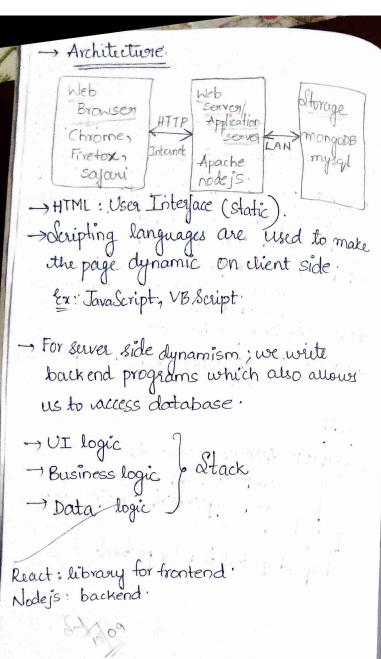
FULL STACK WEB DEVELOPMENT

- -> Interconnection of networks is Internet.
- World Wide Web: dervice which allows access to any doc on any other sys.

 *Gophet: protocol for distributing, searching
 - & setrieving docs over internet.
 - * Usenet distributed discussion system.
 - *Telnet: network protocol used for remote access to other computers over a network
 - *FTP: File Transfer Protocol.
 - * News Groups: discussion forum on a particular topic.

Allows users to access > WWW: websites, web pages and web applications using web browsens profocol

http-) hypertext transfer protocol.



15/09/2023 HTML - Hypertext Marklip Large -> Webpages are developed using HTML * Tatto Spacing spacing between cells. cell padding spacing in the cell. - Comment 2! -- < >--> meta: description and keywords about this * FORMS character set: which encoding set we are UTF-8: popular encoding Set. http-equiv: which browser is used. name: viewport: -> cuser interface content device widther sets acc. to device used width. -> button, checkbox, color, date, email file etc -> No need of labels "if we use place holder. T Linput type = "stadio" name = "gender" Anale Linput type = "siadio" (name) "gender" />female name helps to group the attributes

- · Checkbox gate select multiple options
 - -> query string = contents of the submitted form will be sent to server

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- -> Browser accepts only a certain length of data in a single "line.
- * Forms +method: get, post raction executes whenever we click Submit which allows

us to go to next page.

* Uniform Resource Locator: Subdomain -> top-level http://www.google/com/ protocol

Uniform Resource Identifier (URI)

- → HTTP is a application layer protocol:
- -Communication between client computers and web servers is done by sending & receiving http requests and responses

-> HTTP: connectionless protocol & Statiless

* Connection oriented All the packets (divided message) is sent over a single specified path.

* Connection less All the packets does not have a specified path to reach the destination.

* For every operation on the server that uses HTTP protocol; requests are sent by the user and responses generated gives us the OIP. After every operation; the connection with the server is terminated

* Types of connections: Non-persistent HTTP one obj issent over -> Persistent HTTP:

muttiple obje can be sent over a single TCP connection blw client&

* HTTP Methods.

- -- Get: get the resource from server!
- -> Put: sending document to the server

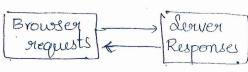
- -> Post: Sending data to the server.

 -> Delete: delete an obj on server.

 -> Head: Request into about a web page.
 - Trace: trace path from client to server

>option: determine serveris capabilities

* put, methods are used to reflect the changes where on the senver as well as on the other machine.



Message consider * Format of message: -Start line = Request is constructed → Headen fields by the browsen - Message Body (Username/IP address).

* Encoding the message and reducing the size of the musage helps to avoid traffic over the hetwork.

* http eror 405: client eror.

* Status Codes:

(0) 1) $1 \times \times \rightarrow Informational$

2) 2 xx -> Success

3) 3 x x -> Redirection

4) 4 x X -> Client evolor

5) 5 X X -> Seaver error

20/09/2023 Simantic lags. No action site just the >> zoodide> -> 2nav> : all the anchor tags can be enclosed in this which are displayed in HTMI.

the HTML page. caside > aligning the text to one side

of the page. carticle? - set of data under a single heading

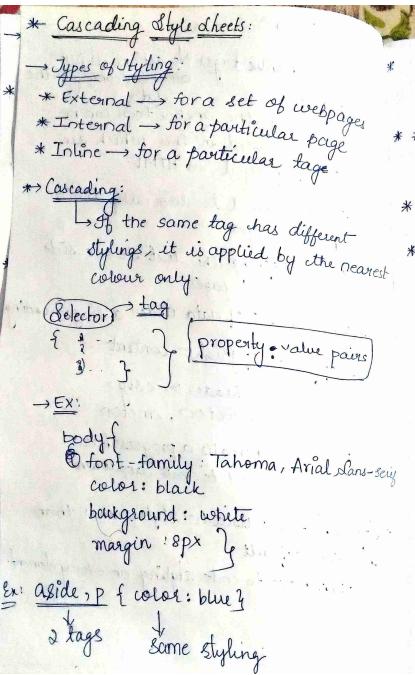
-> & copy => copyright content

randior, Lheader, Livy -> < video > , / footen > , 2 meters

→ ∠progress> => creates a progress bar. → ∠datalist>: used to create dispdown.

*dyle dheets are used to style rather than browser default

L, Not have to code styling on every element.



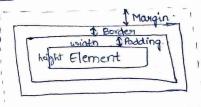
class selector

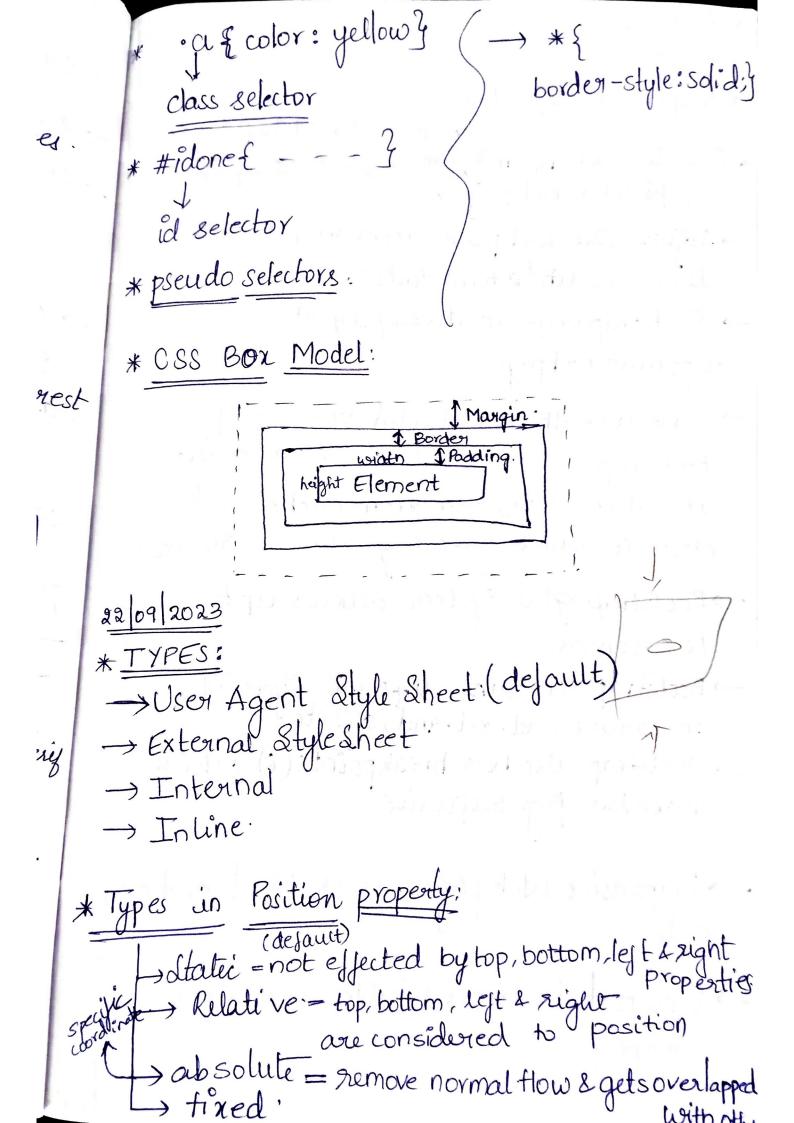
* #idonef - - 3

id selector

* pseudo selectors:

* CSS Box Model:





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* Responsive Web Page: (min-width: 200 PX) and

of pscolor: red; }

-Adjusts the webpage according to the device width form factors

→ Bootstrap helps in developing a Responsive webpage

→ : We use the downloaded version of bootstrap; as a result while accessing it; it is retrieved from cache due to which loading time is reduced.

→ Bootstrap grid system allows up to

-> Bootstrap contains diffount types of containers - x1, xx1, md, an etc

-> Bootstrap also has breakpoints (6) which make the page responsive:

→ Responsive Web page uses html and css

→ Viewport is useris visible area of a web page.

* Viewport varies with the device and will be smaller on a mobile phone or computer screen.

initial-scale=1.0">

Sets width

Sets the Of the page

initial zoom to follow

value screen

width

*We can use CSS media queries to apply different styling for small and large screens.

* Webpages are disigned based on grid-view which is useful in placing elements in the page.

* Responsive grid-view often has 12 & columns and has a total width of 100%.

and viesize acc. to device width.

→ @media → includes a block of css properties only if a certain condition is true.

→ We add a breakpoint where certain parts of the design will behave differently on each side of the breakpoint.

30/09/2013

* Javascript: -> lightweight programming

Anguage

-> Pologramming and Scripting language.

-> Object Oriented language

-> Dynamically typed programming language

+ hat is the Gode is interpreted at

that is the Gode is interpreted at

* Also tomseasy suntime'

* does not have

-> Benefits: explicit datatypes

→ Efficiency ⇒ Efficiency > Event driven → susponding to clicks. > Let can also be used:

→ Javascript: *(var) i=0;

* console log(i); → printing statement

and prints are in

console.

* Primitive datatypes Composite datatype.

Strings

Numbers

Boolean.

Script > < | script > : can be written any

-> <Script > </script>: can be written anywhere in HTML and any no. of times code we can use

> typeof() returns the datatype

-> const b=ao; 37, declaring a constant

onsole log (a-toupper(ase ()); }

-> function multiply (c, a) {

const m = multiply (5,6);

Console log(m) // 30

-Arrays = let a = [10,120,130];

function printarray() {

for (1=0; 1<a.length; i+t)

console log(a[i]);?

```
printarray ();
  -Another way of Amay:
    let b = new Array ('hello', 20);
    console.log(b);
 -> By declaring the variable with let or const
   these are declared locally.
 -) otherwise they are global.
 -> if (date. getHours() <=12) } pop-up box
  alert ( * Good Morning ")
 1 Write a program to design a calculator using
 javascript for +, -, *, 7. ?
 <html>
 (title) calci (Xtitle) of 1 (m) political
(script) let ni = document. get pesults = (+i; April. D); Elementby Id (Number i);
  let n= document. get Element by Id ("Number2")
```

```
Oet operator = document. get Element by Id
                               ("operator");
    const ves;
   of (operator == +1)
  of res = Number (ni.value) + Number (nz. value)
  else if (operator== '-')
  & res= Number (ni.value) - Number (nz.value)
  else if (operator = =-*1)
   d reg = Number (n1. value) * Number (n2. value)
   else
    free: Number (ni.value) / Humber (nz. value)
 Console to
 L/script>
 Lbody >
  Lform method="get", action=" )
Rinput type = "number" id = "Number"
Kinput type = "number" id = "Number2" />
Linput type = "text" id = "Operator" >>
/ input type = "button" value = "Ealci" />
Lform />
```