HTML_

Hyper text mark up language. Released in 1993.

Standard text formatting language. (tells what and how to display)

HTML can only make the structure of the data that will be rendered.

CSS, JS are needed to make it Visually appealing.

a) Tags are the primary comp. of tITMI defines how the content will be structured but attributes are like characteristics of the element.

Voild flements are those with no closing tags fxample:

cbr/> <hr/>

→ A blank Sequence of white space characters are treated as single.

The Browser collapses multiple spaces helping reading easier.

HTML entities:

We can not represent few characters directly. To we them,

Div - Block level element. (Starts in a rew line) Spare - inline element. Takes width which is only necessary.

class attribute is used to specify the class name for HTML element. Multiple elements can have same class name. This is basically used to add styles sheets written.

- class Value can be same for multiple elements but id of one HTML element cannot be associated with another.

Enchype: This attribute specifies how data should be encoded while submitting it to the server.

This can be used only if method = "post"

This attribute can have 3 Values,

1) application/x-www-form-urlencoded:

This is default one. All characters are encoded before sent. spaces -> 1+1 symbols and special characters are -> Hex Asc11.

2) multipart/form-data:

This is used to send the file data to server side for procusing. Must attribute if user has to upload a file through form. 3) text/plain:

Sends data without any encoding. Not recommended.

HTML Layout

<header> starting info.

<forter> last section

<nay> Nav menu

Karticle> set of info.

< Section > used invide article to define basic structure of page (avide) side ban content.

optimize website assets loadings.

1) CDN Hosting: content delivery Network Reduces lating

2) File compression: reduces size of asset to reduce data transfer

3) file concatenation: reduces num of HTTP calls

4) Minify Scripts: reduces over all size of us and & files

5) Parallel downloads:

6) Lazy loading: instead of loading

Formatting tags: 26> 21> 2em> -> makes text flatic but with added

Semantics importance

Coig> (Small> (Smb> 28mp>

 -> strike out text
 -> strike out text

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Strict Transitional Frameset.

- head should always be invide that doc. It contains about the metadata of the page like meta, link, style, script (Not displayed) only I head tog is allowed, always before body tog.
- In body we will have all the possible content to be displayed on the webpage

Nexting of webpages is allowed. Liframe > helps in activing that.

optimize website assett loadings.

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- 6) Lazy loading: instead of loading

Formatting tags: 16> <1> -> makes text flatic but with added Semantics importance.

Cbig> (small> (sub> csup>)
(del> -) strike out text (strong> cmark> cins> -) added text.

Strict Transitional Frameset

- head should always be invide HTML doc. It contains about the metadata of the page like meta, link, Style, script (Not displayed) only I head tog is allowed, always before body togs.
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Nesting of webpages is allowed. Liframe > helps in achieving that.

Cell padding is about the space between text in the cell and edge/borden of the cell and cell spacing is about the distance between two cells.

Rowspan, colspan helps in clubbing the rows.

- We can change an inline element to block by adding display attribute as block to the element.

positioning an flement in time

- 1) Static default. peritions according to flow of doc.
- 2) Absolute positioned relative to parent element.
- 3) fixed Same as abs but wort html element.
- 4) Relative according to normal flow t relative to original pos
- 5) Pritial Resets property to its default Value
- 6) Inherit inherite property from its parent.

Displaying an flement

- 1) inline
- 2) Block
- 3) Inline Block can format using height and width.
- 4) flex - flexbox
- 5) Inline flex
- 6) grid grid containen
- 7) None. hide the element.

when the element has attribute Visibility "hidden" this take up space but display - "none" does not take any space on the webpage and hides the element.

specifying Ink La href=" "> target = _Self - blank

target: used to specify, where the linked document has to be opened.

default, opens in same tab

: New tab

- parent : opens in or parent frame

- top : opens doc in a full body window.

ess style Internal

Anchortag is used to create a hyperlink to another web page or a part of a document. Link is used to define a link between an external retource and current doc which are not clickable.

Rules where to place Script tags:

- 1) Lib/event scripts in the head Section.
- a) Normal scripts that do not write anything on page -head.
- 3) Scripts that render/write something are to be placed in bottom of the body section.

Aform? used banically to collect user inputs. Lipput> Llabel> (checkbox> (radio> (submit)>

Events in HTML can be handled using Is and Jauery, like unclick, oncharge, undrag, etc.

Advantages of HTML5:

- D Better Structuring, newlags charden
- 2) Interactive elements. Video insternal of flack plugin

1) Is can run in background. d) Multimedia support.

- 3) allows users to draw Various shapes.
- 4) New Semantics.
- 5) capability to store offline data using SAL da

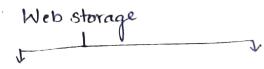
(Span> ca> estron> cimg> cinput> clabel> etc. <div>< cheader > Cforter > cform > ctable >

Semantic Elements: describes particular meaning to the browsen and developer. Like < form> <article> etc.

- progress tag should be used when we want to show the whole progress of a task. Elex meter tag can be used.

SVG THIML5 graphics J canvas 1) can be modified using a) only scripts Css and scripti a) Vector based Raster based (comp of pixels) 3) Better with larger surface Smaller surface 4) High Scalability

- Audio types allowed are, Mp3, wav, ogg



Local storage

Session storage.

for each webapp

for one syston. on diff browsers.

Webstorage helps in storing some of the static data in. the local storage of browser so that we do not need to fetch-he data every time from server which decreases load time and achieves smooth user experience

output tag is used for representing the result of a calculation.

According to HTML5 specification, each cheaders elementmust have one atteast this tag. In previous HTML Vervion, there was only this for entire webpage

Input types: dati week month time datetime datetime-local

Media tags: audio video source embed track (audio t subtiles)

Video t...)

MathML - mathematical mark up language.

used for displaying mathematical expressions