

INTERNET CONCEPT AND WEB DESIGN VIVA

MCSL 16

css

cascading style sheets
ek stylesheet language hai jisme html ka use hota h

css types

Inline

Code html elements k line me likhe hote h

Internal

Code head tag k beech me likhe hote h

External

Code seprate files me likhe hote h, html file me linked hote h link k saath

javascript

ek programming lang. h, js me html aur css ka use kiya jata h, js data ko calculate, manipulate aur validate karta h

onclick

onclick` किसी बटन या लिंक को क्लिक करने k liye use kiya jaata h

hum form design kyo karte h in html

Ham HTML mein form ko design karte hain taki user website ke sath interact kar saken aur data submit kar saken.

html form

user se input lene k liye hota h jisse processing k liye server par bheja jata h
ex. text fields, checkboxes, radio buttons, submit buttons

textbox

containers hote h, user webpage par text likh sakta h

radio button

ek option button hota h, user multiple options me se sirf ek option choonta jata h

submit button

user form me bhari hui information ko submit karke bhej deta h

checkbox

Checkbox एक छोटा बॉक्स होता है जिसे आप क्लिक करके किसी option को चुन या हटा सकते हैं।

Protocol

प्रोटोकॉल ऐसे rules हैं जो devices को network पर आपस में बात करने में मदद करते हैं.

TCP

Transmission Control Protocol

ek aisa internet protocol hai jo devices के बीच connection बनाकर reliable data ko transfer karta h

aur gaurantee leta h
Connection based protocol h

UDP

User Datagram Protocol

jo devices के बीच connection बनाकर data ko transfer karta hai par koi gaurantee nhi leta
Ye connectionless hota h

Osi model

(Open System Interconnections)

Data transmission karne ke liye communication protocols ya network ko seven layers mein organize kiya jata hai for OSI model mein saat layers hote hain: PDNTSPA

1. Physical

jo hardware devices se jese cables aur signals jaise चीज़ों me data ko ek devices se dusre device par transfer करता है.

2. Data Link

software, website k data ko को स्टोर और मैनेज करता है

3. Network layer

डाटा पैकेट को एक नेटवर्क से दूसरे नेटवर्क में data भेजने का काम करता है।

4. Transport

networking me ek application se dusri application me reliable data transfer karta h
ek jaghe se dusri jaghe par

5. Session

applications के multiple sessions ko manage करता है

6. Presentation

Network mein Application k data ko show kiya jata h

7. Application

Jo aapke software को network se communicate करने mein madad करता है

difference

OSI model 7-layer wala framework hota h jo network communication ko batata h

TCP/IP 4-layer wala protocol suite hota h jo internet par data communication karta h NITA

Network access layer

Internet layer

Transport layer

Application layer

TCP/IP

communication protocol hota h

jo computer networks par data transmission ko handle karta h

Tables

Information ko Row or column me Dikhate Hai

data ko Row aur column me organize Kia Jata jh

Internet

Koi bhi access kar sakta ha

Bhot sare interconnected computers ka network h

jo global communication and information sharing allow karta h

Intranet

intranet Kuchh specific log ya group access kar sakte h

Kuch limited computers ka jaal hota h

jisme ye data share karte h

HTML

Hyper text markup language Jo sirf tag content karta hai

HTML koi programming language nahin hai because ismein decision making ki ability nahin hai

listening

HTML khud se directly listening handle nhi karta h

Ye web content k structure par focus karta h

DHTML

वेब पेजों को dynamic और इंटरैक्टिव बनाने के लिए HTML, css, java script और scripting language ko जोड़ता है

Who developed HTML

team burners lee

HTML ka extension kya hota hai

.html, .HTML

How many types of HTML pages

There are two types of HTML pages

static and dynamic

HTML ka basic structure

HTML

Head

Title

body

foot

Document

Ek pre defined object h

Write

Ek function hai jo pahle se maujud hota hai

JavaScript ka extension kya hai

.js

alert() - Ek alert box dikhata hai jo user ko ek message show karta hai.

console.log() - Console par messages aur data ko print karta hai, debugging ke liye useful hota hai.

parseInt() - Ek string ko integer mein convert karta hai.

parseFloat() - Ek string ko floating-point number mein convert karta hai.

setTimeout() - Ek function ko specified delay ke baad execute karta hai.

```
setTimeout(() => {  
  console.log("This runs after 1 second");  
}, 1000);
```

setInterval() - Ek function ko regular intervals par execute karta hai.

```
setInterval(() => {  
  console.log("This runs every 2 seconds");  
}, 2000);
```

Math.random() - 0 se 1 ke beech ek random number generate karta hai.

Array.prototype.push() - Array ke end mein ek ya zyada elements ko add karta hai.

```
let arr = [1, 2];  
arr.push(3); // arr is now [1, 2, 3]
```

Array.prototype.pop() - Array ke end se ek element ko remove karta hai aur return karta hai.

String.prototype.split() - Ek string ko specified delimiter ke basis par array mein split karta hai.

document.getElementById():

- HTML element ko ID ke zariye access karne ke liye use hota hai.

addEventListener():

- Event ko handle karne ke liye use hota hai.

querySelector():

- CSS selector ke zariye first matching element ko select karne ke liye.

map():

- Array ke har element par function apply karne ke liye aur ek naya array return karne ke liye.

filter():

- Array ke elements ko filter karne ke liye based on a condition aur ek naya array return karne ke liye.

reduce():

- Array ke elements ko reduce kar ke ek single value return karne ke liye.

forEach():

- Array ke har element par function execute karne ke liye.

Alert

Ek window ya dialog box open hota h jisme information show hoti h

Documents ki properties

Bg

Fg

document.title

document.URL

Document.domain -> document mein domain name access karna

Document.body

document.head

Document.form

document.links

Document.images

document.scripts

document.cookie

Tag

HTML tags web pages ke structure ko define karte hain

aur har tag ek specific element ko represent karta hai

Ye tags angle brackets (<>) ke beech me aate hain, jaise ki <p> tag paragraph ko represent karta hai.

attribute

HTML attributes k behavior ko define karta h

<html> tag

HTML document ka root element hai

jise har HTML document mein include kiya jata hai

<head> tag

webpage ke metadata ko define karta hai, jisme title, stylesheets, scripts, ko dalte h

<title>

webpage ka title define karta hai

<body> tag

webpage ke actual content ko represent karta hai, including text, images, links, forms

<H n>

<h1>

sabse bada heading hota hai

<h2>, <h3>, aur <h6> sabse chhota.

bold text

<p>

Paragraph start karne k liya hota h

Text ko agli line se likha jata h

<hr>

ek webpage mein ek horizontal line banane ke liye hota hai

<center>

Text ya image ko center me align karta h

<i>

italic

<u> </u>

underline

Ek bullet hota hai jo unordered list ke liye use hota hai

Ek bullet hota hai jo order list mein use hota hai

Ek bullet hota hai jo ordered ya unordded list mein use hota hai

<menu> tag

different options ki list define karta hai jise user click kar sakta hai

Image ko insert karte Hain

src = image ka path k liye hota h

alt = image k liye alternate text hota h

<DL>

description list

<dt>

terms, ya names ko descibe karta h

<dd>

har ek term aur name ko describe karta h

<a>

Hyperlink k liye use hota h site ki link add karne k liye

Hyperlink ko define karte h jisse kisi bhi website ka link add karte h

<table>

html me table banata h

<tr>

html me table row banata h

<th>

html me table header banata h

<td>

table me table cell banata h

<canvas>

js me use kiya jaata h

graphics ko draw karne k liye

ye transparent hota h graphics ka container hota h

<svg>

scalable vector graphics

svg graphics k liye container hota h jo web k liye graphics banata h

svg k paas bhot se methods hote h draw karne k liye like boxes, text, graph

Head kaunsi information contain karta hai

Page Ki information content karta hai, Jo page per khud se appear nahin hota

Markup tag

markup tag batata hai ki page ko display kaise karte hain

anchor tag

web page me link banane k liye istemaal hota h

एंकर टैग वेब पेज पर क्लिक करने वाला टेक्स्ट होता है जो उसी पेज के किसी दूसरे दूसरी वेबसाइट पर ले जाता है।

HTML क्या contain करता है

HTML सिर्फ data or tag content करता

Body का attribute क्या होता है

background color link align next text

Ek page mein background color kaise set करते हैं

```
<Body BgColor ="Red"></Body
```

Background mein ek page kaise set करते हैं

```
<Body Background="Swiggy.jpg"></body>
```

Empty tag क्या होते हैं

empty tags are <hr>,
, <input>, etc.

Font tag का Attribute

Color की value को define करने के किन्ने तरीके हैं

Hexadecimal

RGB

color name

text का colour Kaise set करते हैं

```
<Body value/Color name"> Hexadecimal value/RGB
```