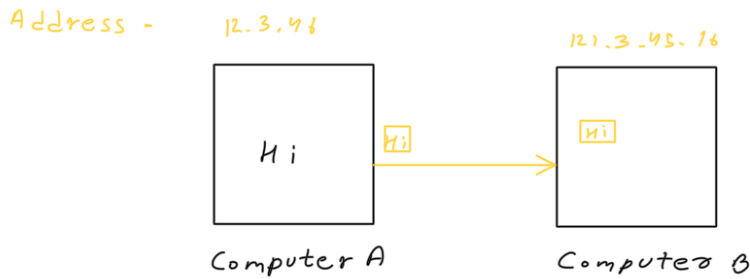


INTERNET



(Dynamic)

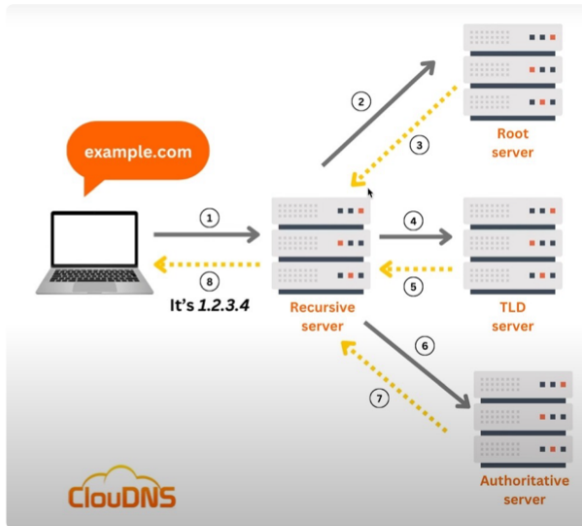
IP address - internet protocol address

- kisibhi conversation b/w computer ke liye IP address lagta hai
- IP address temporary hota hai jo net off karne ke baad hat deta hai

IP address is provided by internet service provider (ISP)

DNS - Domain name Server

Converts Domain name to ip address



root server - saprotates request based on entention .in .com .org

TLD server - (Top level Domain) - Sends to authoritative server

authoritative server - Sends returns IP address

(permanent) MAC Address - medium access control address [no. of ways in which we can Transfer data]

Request

SIP	SMAC	Angali Chat	RIP	RMAC
-----	------	-------------	-----	------

port number - defines where the requested data is to

port number. devices where the requested data will be
Sent in local machine

IPv4: 32 bits

0.0.0.0 \rightarrow 255.255.255.255

— . — . — . —

$$2^{32} = 4,294,967,296 \text{ Devices}$$

IPv6: 128 Bit number

$$2^{128} = 3.403 \times 10^{38} \text{ Devices}$$

— : — : — : — : — : —

Port number: 16 bit (unsigned) $2^{16} - 1 =$ total no. of ports

Some Ports are reserved

- ① well known port (0 - 1023)
- ② Registered ports (1024 - 49151)
- ③ Dynamic/Private/Ephemeral port (49152 - 65535)

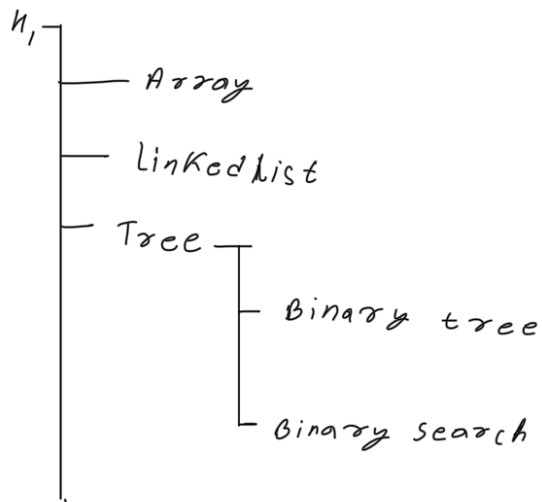
#Cs

HTML

Tags

tags are fundamental elements used to structure and format content on a web page

heading



• do not skip head tag

$h_1 \rightarrow h_2 \rightarrow h_3 \rightarrow h_4 \rightarrow h_5 \rightarrow h_6$

`<H1> hello world </H1>`

HTML element

paragraph `<p>` `</p>`

to write a paragraph

`<hr>` - horizontal line

`
` - break

List

 Milk

 Sugar

 water

Ordered list

 Milk

 Sugar

 water

Unordered list

 google // to create link

target = "_blank" // open in new tab

#Cs

TABLE

`<table>` `</table>` // Table Declaration

`<td>` `</td>` // table data

`<tr>` `</tr>` // table row

`<table border="1">`

used for setting border

`<tr>`

`<td> name </td>`

`<td> roll no. </td>`

`</tr>`

`</table>`

`<th>` `</th>` // table header

`<thead>` `</thead>` // head of table

`<tbody>` `</tbody>` // body of table

`<tfooter>` `</tfooter>` // footer of table

`row span = " "` // how many rows should it contain

`col span = " "` // how many columns should it contain

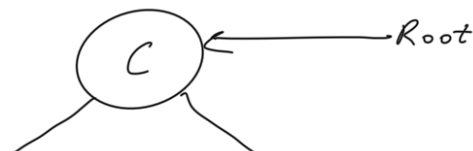
Paths

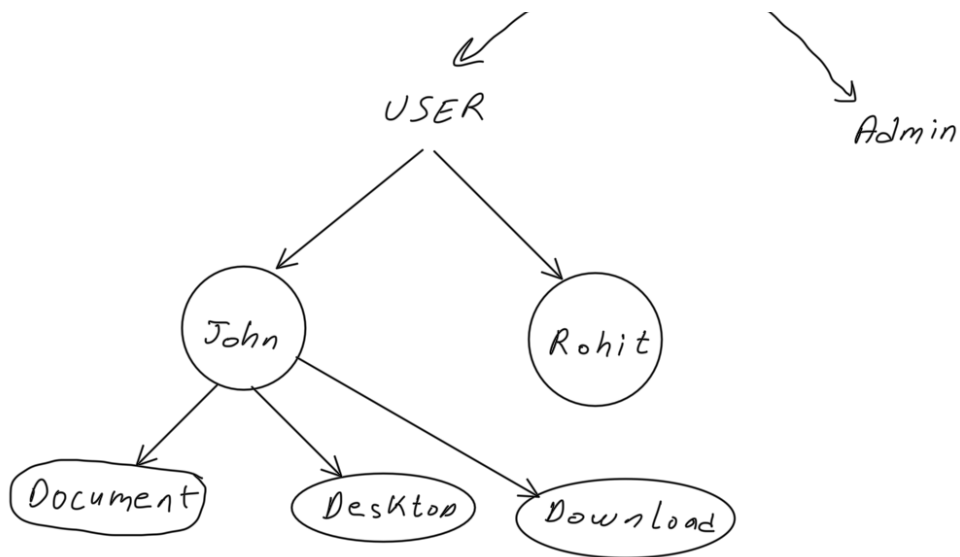
Windows `(:\Users\ThonDoe\Documents\report.docx`

Linux `/User/ThonDoe/Documents/report.docx`

to go back

`..`





< !DOCTYPE html>

<html lang="en"> // language

<head>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title> DOC </title> // give tab name

</head>

<body>

</body>

</html>

ASCII - 1 byte

UTF-8 - 1, 2, 3 byte (flexible)

div

away to group different elements

<div> </div> // in between all the elements which are to be grouped

class

<h1 class="second">

↓
class is an attribute

<h2 id="second">

↓
id is similar to class and is unique

<header> </header> // declare header

<footer> </footer> // declare footer

<main> </main> // declare main body

Form

most used interactive element of the web

<form> </form> initialise form

<label> </label> name of form attribute

<input type="text"> enables taking input

↓
defines type of input

type

number - take integer as input

password - for password

submit for submitting form

<input type="text" name="Name"> - to give a key value pair

checkbox - select multiple option

name should be same for it to work properly

example:

<label for="n">React</label>

<input type="checkbox" value="React" name="n" id="React">

<label for="n">NodeJS</label>

<input type="checkbox" value="NodeJS" name="n" id="NodeJS">

to make a selection dropdown menu

<select name="work" id="work">

<option value="full-time">full Time </option>

<option value="part-time">Part Time </option>

<option value="Remote">Remote </option>

</select>

Radio buttons

Only one of the option is to be selected

<label for="n">React</label>

<input type="Radio" value="React" name="n" id="React">

<label for="n">Node.js</label>

<input type="Radio" value="Node" name="n" id="Node">

for creating clickable buttons <button> is regarded as more usefull then input as button provides more flexibility