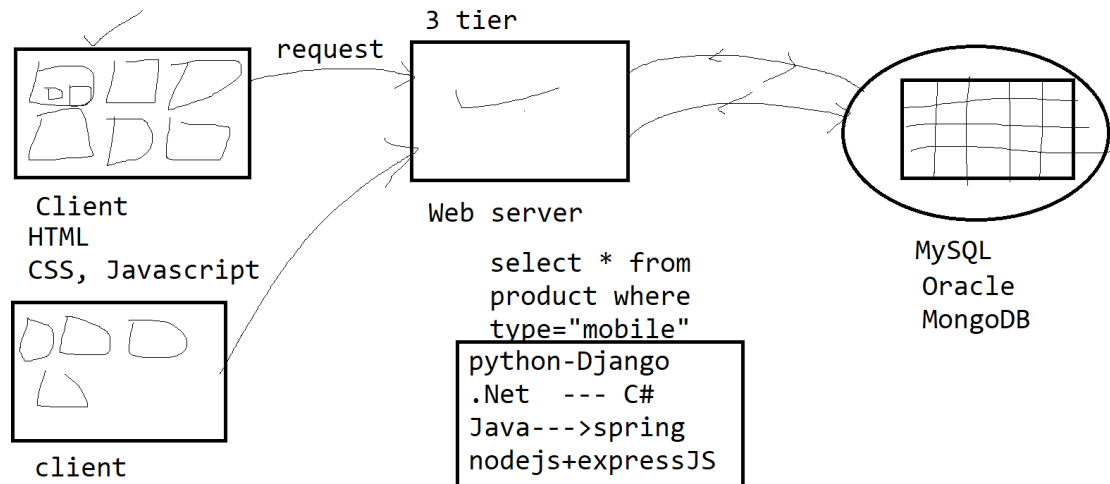


Types of applications

1. Single user
2. Web application
3. Mobile Application
4. Web Services

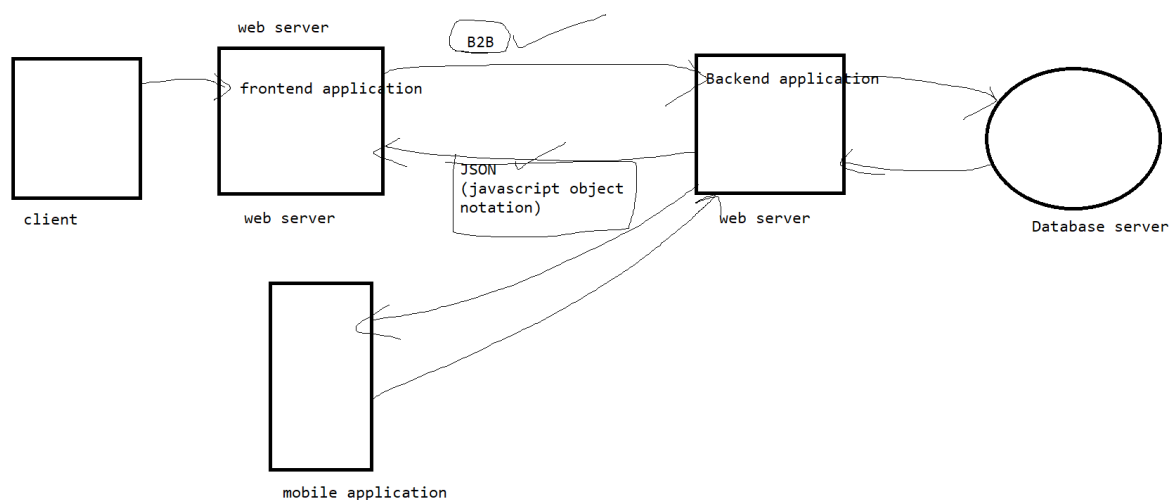
Web Application:

Any application which accepts data from database /web service and converts the data into customer understandable format, by adding presentation logic. (means converts it in to HTML page)



Web service:

The application which gets the data from database and transfers the data to frontend application in either JSON format, XML format, text format.



HTML (Hypertext markup language)

Pages are of two types

1. Static web page --- the page looks same on multiple client machines
Example --- blogs, tutorial site, news paper
Technology --→ html, CSS
2. Dynamic web page--- if the page look and feel, or contents are different for different users based on user's i/p
Examples: flipcart.com, bookmyshow.com
Technology-→ html,css,javascript

HTML

1. Every begin tag should have end tag.
2. Tags are predefined tags, and not case sensitive.
3. The file extension has to either html or htm

Editor

Visual studio code

1. To download visual studio code
<https://code.visualstudio.com/download>
download user installer
2. Using exe/msi file install it
3. Got to windows start button--→ open visual studio code
4. File→open folder--→select the folder
5. View>extension> search for live server> install the extension
6. To run the html file -→ use go live option which is at the bottom of the screen
Or right click in editor window > open with liver server

Header tags	6 header tags are there, these tags are called as semantic tags	h1, h2, h3, h4, h5, h6
Lists	There are 3 types of lists, in every list there are many list items 	Ol --- > type , start Ul -→ type dl
Anchor tag	It is used to display links on the page. Using this we can open a new file, or a url or section of the same page, or section of the other page, or blank email with email address written in To	A--→Href, name, target
Body	The contents in this tag will appear in browser window	Body-→ bgcolor, background, alink, vlink, link, text
table	To display data in tabular format, then use table tag	Table--→border, width, cellpadding, cellspacing, bgcolor Thead tbody Tr--→bgcolor, align Th→ colspan, rowspan, bgcolor, align, valign Td -→colspan, rowspan, bgcolor, align, valign
Br	To add a new line character, use br tag, It is empty tag	

Hr	To draw a horizontal line	Hr-align, width, size, color
Img	To display image on the screen	Img--→ border, vspace, hspace, width, height, alt

Product id	Product name	quantity	price
1	lays	40	40
2	nachos	50	150
<th colspan="4"> Product details <th>			
Product id	Product name	quantity	price
<td rowspan=2> 1</td>	lays	40	40
nachos		50	

Types of tags

Empty tag	The tag which never contains any data between begin and end tag Examples: , <hr/> <input/>
Semantic tags	The tags which gives extra information about the contents, are called as semantic tag Examples: H1, h2,...h6, header, footer, nav, section, article, main.
tag	Example P, div, table
Auto closable tags	The begin is closed automatically when the next occurrence of the same tag is written. Examples -> tr, li

Form tag attribute

method	Get-> sends the data to server via query string, the data will be transferred via header of request object. It is not secure data transfer because the data will be visible in the browser url bar (Querystring-> it is a string which is concatenated to the url, separated by ?, it contains key ,value pairs separated by &) Post-> to send data via body part of request object, it is a secure way of data transfer because data will not be visible on the screen When the data you want to transfer to the server is sensitive or if size of data is very big then use post method By default value of method attribute is get
Action	It is a url of a program on the server, to which you want to send the data

To practice regular expression

<https://regex101.com/>

CSS3(Cascading styles sheet)

Rules for formatting

Selector{

Property:value;

Property:value;

}

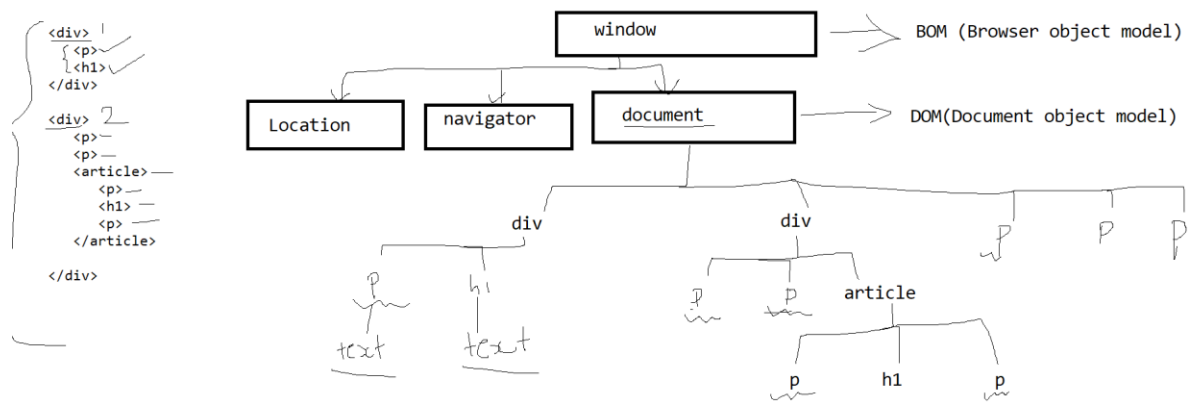
Adding style attribute in the tag

Css are of 3 types

1. Inline- if the rules of css are added in the begin tag, then it is called as inline css, It is useful if you want to apply the style only to one tag
2. Embedded- if the rules of css are added in the style tag, inside head tag, then it is called as embedded css, It is useful if you want to apply the style to multiple tags within same page
3. External css---if the formatting is written in a external file, and then the file is linked with the HTML page. Then it is called as external css.
 - a. The extension of the file must be .css
 - b. When you want to give same look and feel to multiple pages in the web application, then use external css
 - c. To link external css in HTML page use <link rel="stylesheet" href="<cssfilename>">

Types of selector

Tag selector	P, h1, div
Universal selector	*
Id selector	#myid
Class selector	.myclass
Ancestor descendent	Div p
Parent child	div>p
Attribute selector	Div[name]
Attribute value	Div[name=xxx]
Pseudo classes	:hover, :first-child :nth-child :last-child
a:link	To default color
a:visited	The color after visiting the link
a:active	The color when the link is active
P::first_line	The first line of p tag
P::first_letter	The first letter in p tag



10 p tags -- 5 p tags

5 h1 tags --- 2 h1 tags

Position property

Values are ----static, relative, absolute, sticky, fixed

Left, right, top, bottom ---- these properties are applicable only when the position is not static

1. Static value ---left right top and bottom will not work
2. Relative ----left , right, top , bottom will work, it will follow natural ordering
3. Fixed--> tis will keep the element always at the fixed position
4. Absolute--> top, left, right, bottom will be calculated which respect to nearest positioned parent
5. Sticky--> it toggles between relative and fixed, it is relative till the given top and bottom are false, otherwise it will change to fixed