Desktop applications

Web application---→ 3 tier

Web services--→ 4 tier

Mobile application
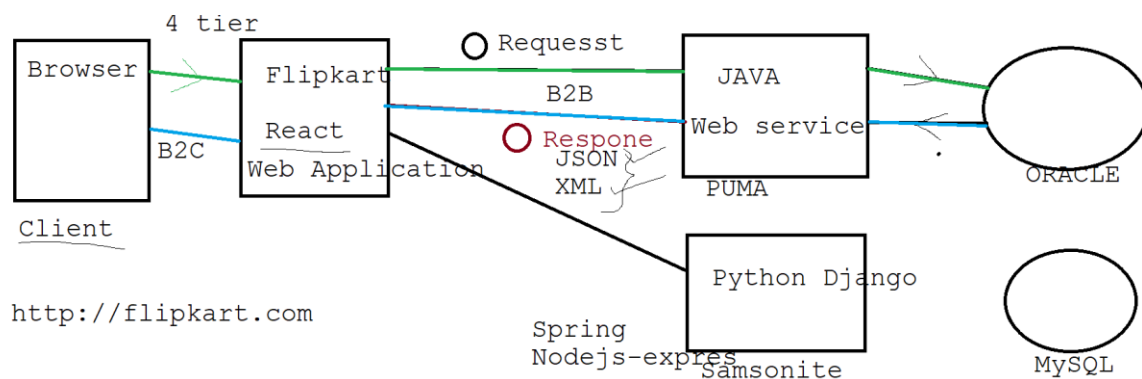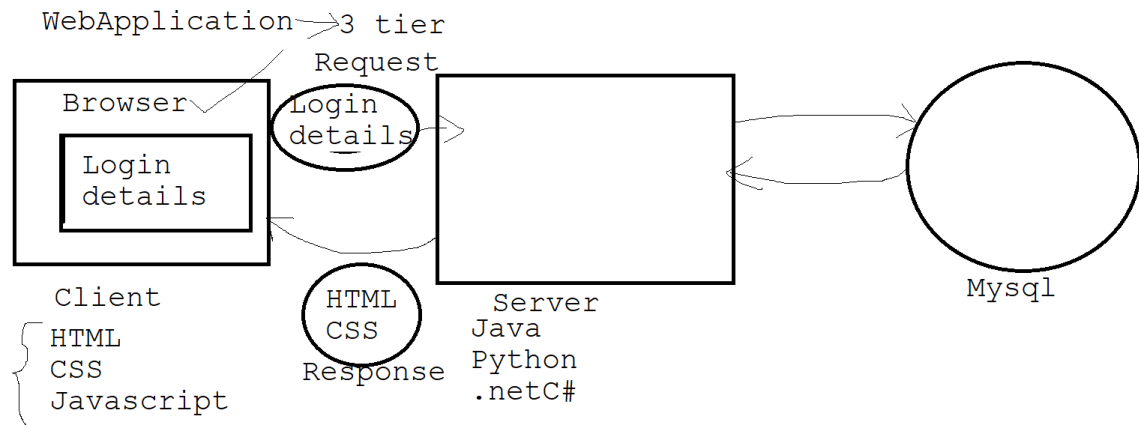
WebApplication→3 tier

Request

Browser — Login details

Login details

Client
HTML
CSS
Javascript

HTML
CSS

Response

Server
Java
Python
.netC#

Mysql

4 tier

Browser

Flipkart

React

Web Application

B2C

Client

http://flipkart.com

Requesst

B2B

Respone
JSON
XML

JAVA

Web service

PUMA

ORACLE

Python Django

Spring
Nodejs-expres

Samsonite

MySQL

HTML(Hypertext Markup Language)

Tags are available

<h1> --- begin tag

</h1>---- end tag

<p id="myp" name="test" class="xxx">-→ id, name, class these are attributes

every attribute value should be enclosed in "" or ''

Web pages are of 2 types

Static web page	If the contents of the page appear on all the machines are same	eg—Tutorial site, news site

|	These pages can be designed by using HTML,css	
dynamic web page	If the contents of the page appear on client machines are dependent on the request of the client HTML,CSS,Javascript, NodeJS,expressJS	e.g bookmyshow.com, flipkart.com,

https://code.visualstudio.com/download

To write HTML page, every file extension should be .html or .htm

URL

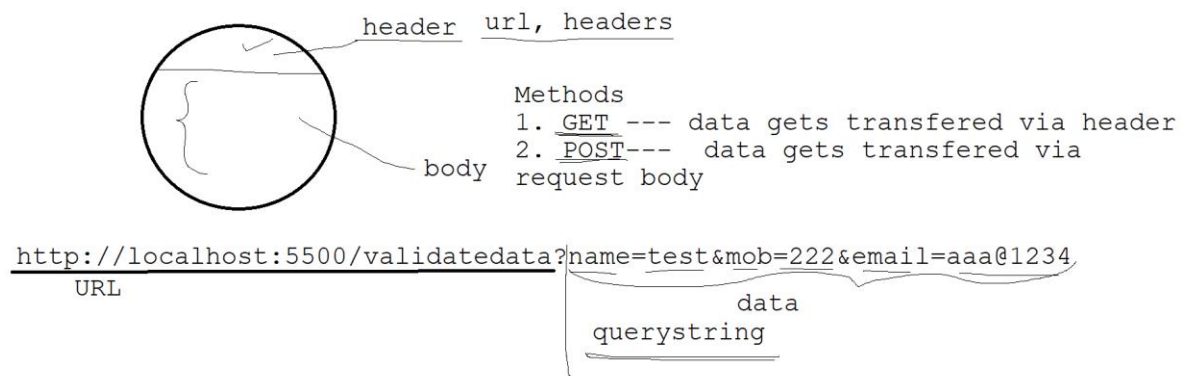| file:///D:/Web%20programming/IACSD%20march%2024/hello.html	
protocol://server ip:port/Hello.html	
http://127.0.0.1:5500/hello.html	
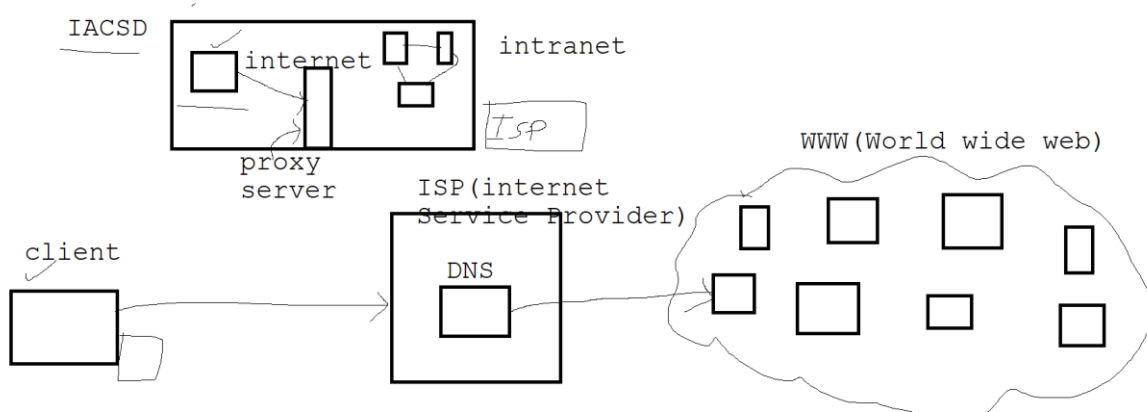
google.com --→domain name--→ ISP-→DNS (Domain name server)--→it converts domain name into ip address

http→ hypertext transfer protocol, It is a set of rules which tells how 2 machines can communicate with each other
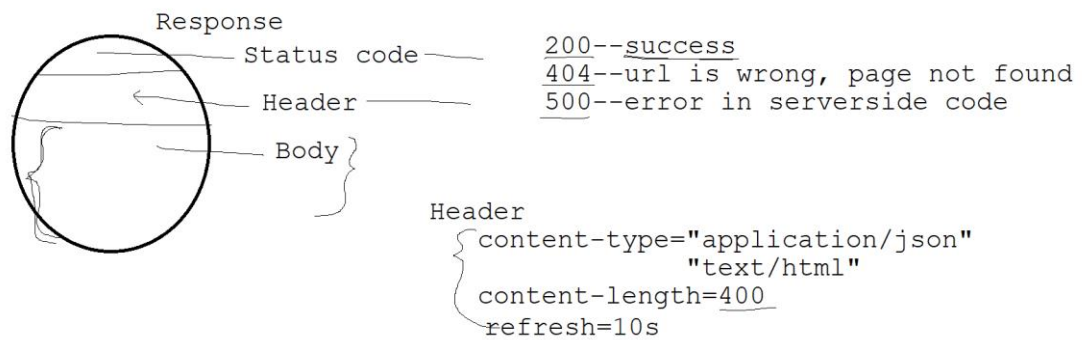
Request-→ It is a object which transfers data from client to server

Response-→ It is a object using which server transfers data to client

Request

```
              header    url, headers

                        Methods
                        1. GET --- data gets transfered via header
                        2. POST---  data gets transfered via
              body      request body

    http://localhost:5500/validatedata?name=test&mob=222&email=aaa@1234
              URL                                    data
                                              querystring
```

Response

```
         Response
         ──── Status code ────   200--success
         ←──── Header ────       404--url is wrong, page not found
         ──── Body              500--error in serverside code

                        Header
                          content-type="application/json"
                                        "text/html"
                          content-length=400
                          refresh=10s
```

HTML

HTML(Hypertext Markup Language)

Tags are available

<h1> --- begin tag

</h1>---- end tag

<p id="myp" name="test" class="xxx">-→ id, name, class these are attributes

every attribute value should be enclosed in "" or ''

Header tags

There are 6 header tags	<h1> , <h2>, <h3>,<h4> , <h5>, <h6>
to display paragraph	<p>
to display logical division of the pages	<div>
to display inline text in div	<span>

to maintain your formatting	`<pre>`
To display links, using links you may link 2 pages or you may link 2 sections of the pages	`<a></a>` the arributes 1. href->url of the page or value of some id to connect the page or the section 2. id->for unique identification
To display contents in the browser window	`<body>` <mark>attributes of body tag</mark> link-→ default link color alink→ active link color vlink→visited link color bgcolor-background color text→ text color background→ background image
to display image	`<img>` attributes of img tag src-→ name of the image file/ url of the image file width→image width height-→image height vspace→ vertical space hspace→horizontal space border→ width of border to display border to the image style="float:left" to display image on left side and move the further part of page beside the image
to display lists in the page There are 3 lists in the page 1. unordered list 2. ordered list 3. data list	1. unordered list-→ `<ul></ul>` to display list items we use `<li>` attributes in ul type→ disk,square,circle 2.Ordered list--> `<ol>` to display list items use `<li>` type→ A,a,I,i start→number 2. data list -→ `<dl>` to display term --→ `<dt>` to display definition-→`<dd>`

to display table	`<table>`--to display table
	    border→ 2px to sow internal borders
	    width→ how much screen area the table should occupy.
	    cellspacing-→ gap between 2 cells
	    cellpadding-→gap between cell border and the text
	    bgcolor--- background color
	`<tr>`-→ table row
	    align--→for horizontal alignment (left,center,right)
	    valign-→for vertical alignment (top, center, bottom)
	    bgcolor--- background color
	`<th>`-→ table heading
	    align--→for horizontal alignment (left,center,right)

	valign-→for vertical alignment (top, center, bottom)
	bgcolor--- background color
	colspan -→ to merge the columns
	rowspan-→ to merge the rows
	<td>-→ table data
	  align--→for horizontal alignment (left,center,right)
	  valign-→for vertical alignment (top, center, bottom)
	  bgcolor--- background color
	colspan -→ to merge the columns
	rowspan-→ to merge the rows