INTRODUCTION TO HTML

**Web site:** A set of interconnected web pages, usually including a homepage, generally located on the same server, and prepared and maintained as a collection of information by a person, group, or organization.

**Web Page:** A web page is a document that's created in html that shows up on the internet when you type in or go to the web page's address.

## Types of Web Pages:

* **Static web page**: is delivered exactly as stored, as web content in the web server's file system. Contents cannot be changed.
* **Dynamic web page**: is generated by a web application that is driven by server-side software or client-side scripting. Dynamic web pages help the browser (the client) to enhance the web page through user input to the server. Contents can be changed as evolution over time.

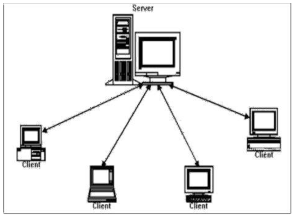
## Browsers & their types

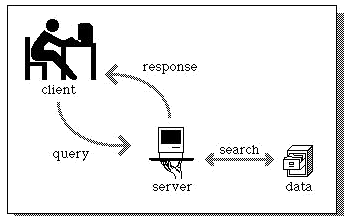
A web browser (commonly referred to as a browser) is a software application for retrieving, presenting and traversing information resources on the World Wide Web.

The major web browsers are Google Chrome, Firefox, Internet Explorer, Opera, and Safari.

## Client –Server Model

The client–server model is a distributed application structure in computing that partitions tasks or workloads between the providers of a resource or service, called servers, and service requesters, called clients. Often clients and servers communicate over a computer network. A server is a host that is running one or more server programs which share their resources with clients. A client requests a server's content or service function.

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## Web –Server

Web server refers to either the hardware (the computer) or the software (the computer application) that helps to deliver web content that can be accessed through the Internet.

The most common use of web servers is to host websites, but there are other uses such as gaming, data storage or running enterprise application.

## General structure of a Web Page

A basic HTML page contains a Head section and a Body section. The contents of the head section are normally invisible in a web browser and mainly consists of some Metatags. The Body consist of those HTML elements that you want to have displayed in your browser.

<html>

<head>

</head>

<body>

</body>

</html>

**Scripting language:** A scripting language or script language is a programming language that supports the writing of scripts, programs written for a special runtime environment that can interpret and automate the execution of tasks which could alternatively be executed one- by-one by a human operator.

**URL:** A uniform resource locator (URL), also known as web address, is a specific character string that constitutes a reference to a resource. In most web browsers, the URL of a web page is displayed on top inside an address bar. An example of a typical URL would be "<http://en.example.org/wiki/Main_Page>".

**WWW:** The World Wide Web (WWW) is a system of interlinked hypertext documents accessed via the Internet. With a web browser, one can view web pages that may contain text, images, videos, and other multimedia, and navigate between them via hyperlinks.

**ILLUSTRATING HTML TAGS AND THEIR ATTRIBUTES**

**HTML:**Hyper Text Markup Language is the most widely used language to write web pages.it is a markup language.

**Hypertext :**Refers to the way in which web pages are linked together.

**Markup Language:** The user simply markups a text document with tags that tell a web browser how to structure it to display.

**Creating HTML document :**To begin coding HTML user needs only two things:

1. A simple text editor (notepad).
2. A web browser.

**HTML document structure:** An HTML document starts and ends with <html> and

</html> tags.These tags tell the browser that the entire document is composed in HTML.Inside these two tags,the document is split into 2 sections:

1. The <head>……</head> elements contains information about the document such as title

of the document etc.

1. The <body>…. </body> elements contains the real content of the document that you see on your screen.

**ATTRIBUTES:**

An attribute is used to define the characteristics of an element and is placed inside the

element’s opening tag. All attributes are made up of 2 parts: a name and a value.

-The name is the property you want to set.

-The value is what you want the value of the property to be.

Example: <font face=”arial” color=”red”>

**Program 1**

<html>

<head>

<title>program 01</title>

</head>

<body bgcolor="pink">

<font color="red"><marquee direction="left">

<h1>Basic Web design Lab</h1>

</marquee></font>

<h2 align="left"> Definition </h2>

<h3 align="left">Website</h3>

<p>

A set of inter connected web pages usually including a home page and many other web pages<br>

<b> <i> log</i></b> <sub>b </sub>m<sup> p</sup> =p<b> <i> log </i></b><sub>b</sub> m</p>

<br>

<a href="p2.html">

<img src="holi.jpg " height="200" width="200" align="middle"/>

</a>

<br>

Ordered List

<br>

<ol type=a>

<li>English </li>

<li>Maths-2</li>

<li>Digital Electronics & computer fundamentals</li> <li>Basic Web design lab</li>

<li>multimedia lab</li>

<li>digital electronics</li>

</ol>

<br>

Unordered List

<br>

<ul>

<li> Computer science and Engg </li>

<li> Electronics and communication </li>

<li> Civil Engg </li>

<li> Mechanical Engg</li>

<li> MCA</li>

<li> MBA</li>

</ul>

<br>

<table border= "1">

<tr>

<th> reg.number</th>

<th> student name</th>

<th> year/semester </th>

<th>date of admission</th>

</tr>

<tr>

<td> 20AK1A0501</td>

<td> suma</td>

<td> 2nd</td>

<td> 06/06/2024 </td>

</tr>

<tr>

<td> 20AK1A0502 </td>

<td> xyz</td>

<td>2nd</td>

<td> 07/07/2024 </td>

</tr>

</table>

</body>

</html>

**Program 2**

<html>

<head>

<title>program 01</title>

</head>

<frameset cols="\*,\*">

<frame src="fest.jpg" >

<frameset rows="50%,50%">

<frame src="diwali.jpg " >

<frame src="dussehra.jpg " >

</frameset>

</frameset>

</html>

**Program3**

<html>

<head><title>Bio Data Form</title>

</head>

<body>

<h1>Bio Data Form</h1>

<form>

<fieldset>

<legend>Personal:</legend>

<table id="t02" align="center">

<tr><td><label id="name-label" for="name">Name: </label></td>

<td><input autofocus type="text" name="name" id="name" class="input-field" placeholder="Enter your name" required></td></tr>

<tr><td><label id="fname-label" for="fname">Father's Name: </label></td>

<td><input autofocus type="text" name="fname" id="fname" class="input-field" placeholder="Enter your father's name" required></td></tr>

<tr><td><label id="mname-label" for="mname">Mother's Name: </label></td>

<td><input autofocus type="text" name="mname" id="mname" class="input-field" placeholder="Enter your mother's name" required></td></tr>

<tr><td><label id="email-label" for="email">Email: </label></td>

<td><input type="email" name="email" id="email" class="input-field" required placeholder="Enter your Email"></td></tr>

<tr><td><label id="number-label" for="age">Age: </label></td>

<td><input type="number" name="age" id="number" min="1" max="125" class="input- field" placeholder="Age" required></td></tr>

<tr><td><label id="dob-label" for="dob">D.O.B: </label></td>

<td><input type="date" name="dob" id="iddob" class="input-field" required><td></tr>

<tr> <td><label for="department">Department: </label></td>

<td>

<select id="dropdown" name="department" class="dropdown">

<option disabled value>Select an option</option>

<option value="it">IT</option>

<option value="cse">CSE</option>

<option value="ece">ECE</option>

<option value="mech">MECH</option>

<option value="civil">CIVIL</option>

<option value="other">Other</option>

</select></td></tr>

</table>

</fieldset>

<table id="t03" align=center><tr><td>

<label for="gender">Gender: </label>

<ul style="list-style: none;">

<li class="radio"><label><input name="radio-buttons" value="male" type="radio" class="userRatings" >Male</label></li>

<li class="radio"><label><input name="radio-buttons" value="female" type="radio" class="userRatings" >Female</label></li>

<li class="radio"><label><input name="radio-buttons" value="others" type="radio" class="userRatings" >Others</label></li>

</ul>

</td></tr>

<tr><td>

<label for="address">Address: </label></td>

<td><textarea id="comments" class="input-field" style="height:50px;resize:vertical;" name="address" placeholder="Enter your address here..."></textarea></td></tr>

<tr><td><label for="pincode">Pincode: </label></td>

<td><input type="number" name="pincode" id="idpincode" class="input-field" style="height:20px;resize:vertical;" placeholder="6 digits Number"></td></tr>

<tr><td><label for="pincode">Phone Number: </label></td>

<td><input type="number" name="Phone Number" id="idphonenumber" class="input- field" style="height:20px;resize:vertical;" placeholder="10 digits Number"></td></tr>

<tr><td><label for="language">Language Known: </label>

<ul id="language" style="list-style: none;">

<li class="checkbox"><label><input name="prefer" value="english" type="checkbox" class="userRatings">English</label></li>

<li class="checkbox"><label><input name="prefer" value="tamil" type="checkbox" class="userRatings">Tamil</label></li>

<li class="checkbox"><label><input name="prefer" value="hindi" type="checkbox" class="userRatings">Hindi</label></li>

<li class="checkbox"><label><input name="prefer" value="malayalam" type="checkbox" class="userRatings">Malayalam</label></li>

<li class="checkbox"><label><input name="prefer" value="kannada" type="checkbox" class="userRatings">Kannada</label></li>

<li class="checkbox"><label><input name="prefer" value="telugu" type="checkbox" class="userRatings">Telugu</label></li>

<li class="checkbox"><label><input name="prefer" value="others" type="checkbox" class="userRatings">Others</label></li>

</ul>

</td></tr>

<tr><td><button id="submit" type="submit">Submit</button></td><td>

<button id="reset" type="reset">Reset</button></td></tr>

</table>

</form>

</body>

</html>

**Program4**

<html>

<head>

<title>Form Tags</title>

</head>

<body bgcolor="gray">

<center>

<h1 style="color:white">LOGIN FORM</h1>

<!--input-->

<input type="text" placeholder="USER NAME"><br><br>

<!--password-->

<input type="password" placeholder="PASSWORD"><br><br>

<!--button-->

<input type="submit" value="Submit">

<input type="reset" value="clear">

</center>

</body>

</html>

**Exercises**

1. Design the following

