https://shorturl.at/kAHNV

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User inputs

- To accept inputs from users, generally we use forms

HTML <form> tag

- This tag defines a form that is used to collect user inputs.

Form Attributes

method

action

target

encrypt

<input/> tag

Attributes Parameters

types text, number, password, date, email, color, file, …

name any name

value any value

size ???

maxlength number

rows number

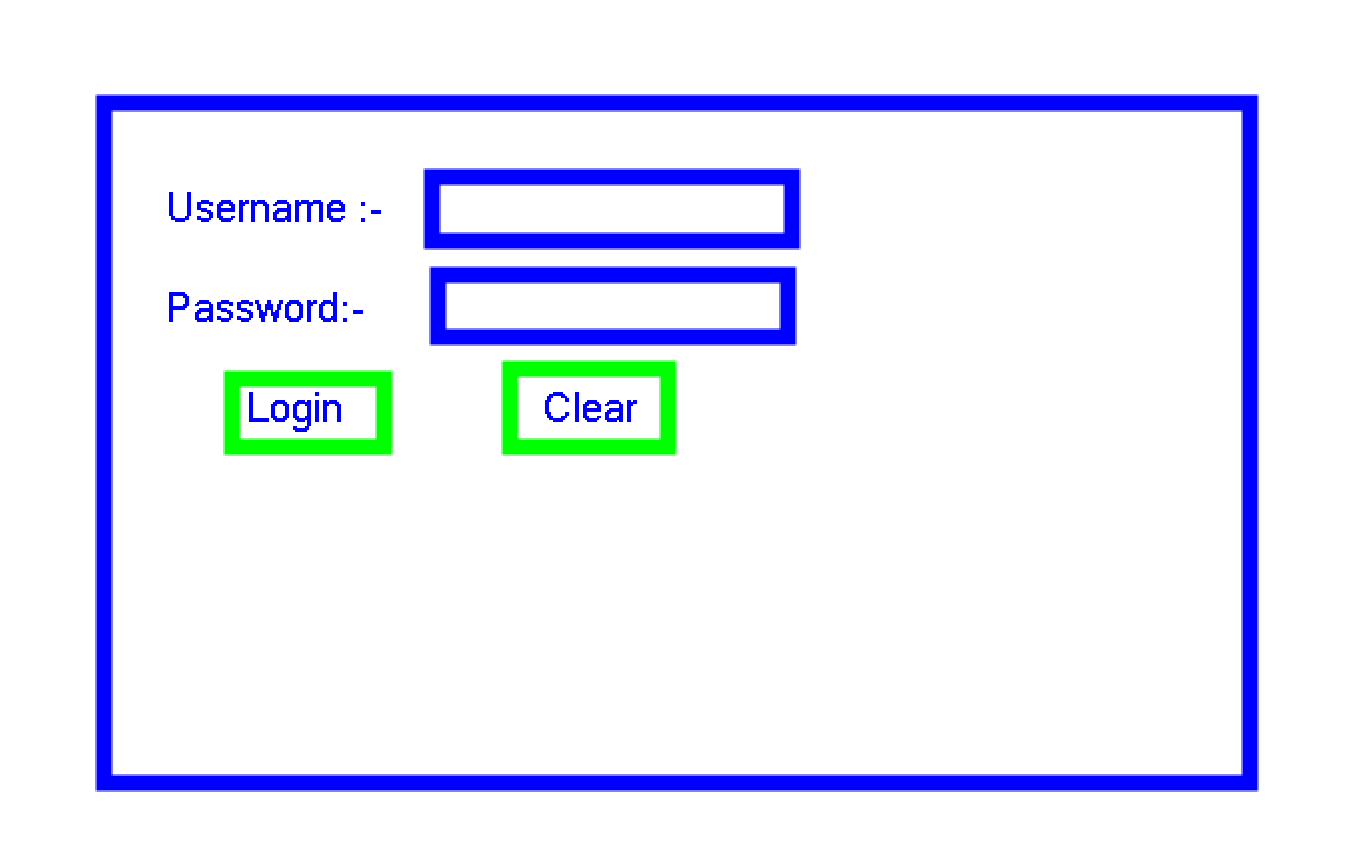
cols number

readonly boolean

disabled disabled

checked checked

multiple boolean



<!DOCTYPE html>

<html>

<head>

<title>Form Eg</title>

</head>

<body>

<h1>Form Eg</h1>

<form action = "./Tornado.gif">

<label>Username:- </label> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="text" placeholder="Enter Username" name="uname" size = 10 maxlength="6">

<br><br>

<label>Password:- </label> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

<input type="password" placeholder="Enter Password" name="upwd">

<br><br>

<input type="submit" value="Login"> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;

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

</form>

</body>

</html>

<textarea>

multiline textbox

<textarea rows = "5" cols = "45"> .... </textarea>

HTML dropdown list (<select>)

- <select> tag is used to create dropdownlist

- <option> tag inside select element defines the available options in the list

Attributes Parameters

<select>

disabled disabled

multiple multiple

size number (???)

name any name

<option>

disabled disabled

label text

selected selected

value text

<optgroup>

- it is used to group logically related options in the dropdown list

- For long list options group of related options are easier for the user to handle.

Attributes Parameters

disabled disabled

label text

<select multiple size="5">

<optgroup label="Languages">

<option>Marathi </option>

<option>Telugu</option>

<option>Hindi</option>

<option>English</option>

<option selected>Sanskrit</option>

<option disabled>Tamil</option>

<option>Kannada</option>

</optgroup>

<optgroup label="Maths">

<option>Algebra</option>

<option>Geometry</option>

<option>Calculus</option>

<option>Trigonometry</option>

</optgroup>

<optgroup label="Science">

<option>Physics</option>

<option>Chemistry</option>

<option>Biology</option>

</optgroup>

<optgroup label="Social Science" disabled>

<option>Histroy</option>

<option>Geography</option>

<option>Civics</option>

</optgroup>

</select>

Radio control

- Radio buttons are used when out of may options just one option required to be selected.

- These are created using HTML input tag

type = 'radio'

Checkbox

- Checkboxes are used when more than one options are required to be selected

- These are created using HTML input tag

type = 'checkbox'

<h1>Choose Correct answer</h1>

<input type="radio" name="opt">True

<input type="radio" name="opt">False

<input type="radio" name="opt">All above

<input type="radio" name="opt">None above

<br><br>

<h1> Gender</h1>

<input type=radio name="g"> Male

<input type=radio name="g"> Female

<br><br>

<h1>Select your Hobby / s</h1>

<input type="checkbox" name="tv">Watching TV

<input type="checkbox" name="bm">Badminton

<input type="checkbox" name="kk">Khokho

<input type="checkbox" name="br">Bike Riding

<input type="checkbox" name="pn">Painting

<input type="checkbox" name="et">Eating

<input type="checkbox" name="sl">Sleeping

<input type="checkbox" name="ck">Cooking

<input type="checkbox" name="vg">Videogames

<input type="checkbox" name="cr">Cricket

<br><br>

<fieldset>

- it defines group of logically related elements

- elements are grouped inside a box

- it is a paired tag

<legend>

- it is used with fieldset to give title to each set of fields

- it is a paired tag

Attributes Parameters

align right, left, center

<h1> Welcome to my travel co </h1>

<fieldset>

<legend> -: Personal Informatoin :- </legend>

<label> First name :- </label>

<input type=text>

<br><br>

<label> Last name :- </label>

<input type=text>

</fieldset>

<br>

<fieldset>

<legend> -: Mode of Transport :- </legend>

<input type=radio name=tr> Road

<input type=radio name=tr> Rail

<input type=radio name=tr> Air

<input type=radio name=tr> Water

</fieldset>

<br>

<fieldset>

<legend> -: Amenities required :- </legend>

<input type=checkbox name="lunch"> Lunch

<input type=checkbox name="dw"> Drinking Water

<input type=checkbox name="fr"> Fruits

<input type=checkbox name="ck"> Chocklet

</fieldset>

Assignment

Design at least 5 forms (Eg Admission form, Registration form, enquiry form, etc)

HTTP

- Hyper Text Transfer Protocol

- it is used to establish communication

between client and server.

- HTTP works as request-response protocol

between server and client.

- a web browser is client.

- the computer who hosts the website is server.

HTTP request methods

- There are various methods of HTTP requests

Eg GET,

POST,

PUT,

UPDATE,

DELETE,

CONNECT,

...

etc

- of which two methods are commonly used for

request-response between client and server.

i) GET

ii)POST

Action attribute

- This attribute is used to specify url of the server

page to which we want to send our form data.

i) GET method

- In this method there is no security for data.

- This method can send only limited data(2MB).

- It can carry raw data from client to server.

<body>

<form method="get" action="https://www.google.com/" name="my\_form">

<input type="text" name="uname" placeholder="Enter Username">

<br><br>

<input type="password" name="upwd" placeholder="Enter Password">

<br><br>

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

&nbsp;&#160;&nbsp;&#160;&nbsp;&#160;

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

</form>

</body>

Note:-

- GET requests can be cached.

- GET requests remain in browser history.

- GET requests can be bookmarked.

- GET requests should not deal with sensitive data.

- GET requests' length is restricted.

- GET requests have excellent performance.

- GET requests can not upload images.

ii)POST method

- In this method we have security for data.

- In this method we can send bulk data.

- It can carry encrypted data from client to server.

<body>

<form method="post" action="./thanku.html" name="my\_form">

<input type="text" name="uname" placeholder="Enter Username">

<br><br>

<input type="password" name="upwd" placeholder="Enter Password">

<br><br>

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

&nbsp;&#160;&nbsp;&#160;&nbsp;&#160;

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

</form>

</body>

Note:-

- POST requests can not be cached.

- POST requests do not remain in browser history.

- POST requests can not be bookmarked.

- POST requests should deal with sensitive data.

- POST requests' length is not restricted

- POST requests have good performance.

- POST requests can upload images.

HTTP Status messages

1xx -> 100 to 199 -> Informational

2xx -> 200 to 299 -> Successful

3xx -> 300 to 399 -> Redirection

4xx -> 400 to 499 -> Client side error

5xx -> 500 to 599 -> Server side error

HTML images

- to insert an image on HTML page <img/> tag is used.

Attributes Parameters

align left, right

border px

height px / % ??

width px / %

src URL

alt text (if image not loaded)

<body>

<img src = "jellyfish.jpg" width = 400 height = 400 align = right>

<br>

<img src = "jellyfish.jpg">

<br>

<img src = "jellyfish.jpg" width = 75%>

<br><br>

<img align = "right" src = "https://images-na.ssl-images-amazon.com/images/I/71hMEM1a9EL.\_SX425\_.jpg"><br>

<img align = "right" src = "https://images-na.ssl-images-amazon.com/images/I/71hMEM1a9EL.\_SX425\_.jp" alt = "Doremon">

</body>

<a> tag

- It defines hyperlink which is used to link

one page to another page.

Attributes parameters

href URL

target \_parent -> same page

rest all next tab

<body>

<h1> Home Page</h1>

<p> For more information next tab <a href="https://www.google.com" target="\_blan">click here</a></p>

<p> For more information in same page <a href="https://www.google.com" target="\_parent">click here</a></p>

</body>

Lists in HTML

- There are three type of lists in html

i) Ordered List <ol> <li>

ii)Unordered list <ul> <li>

iii)Definition list <dl> <dt> <dd>

i) Ordered List <ol>

- It is also called as numbered list

- It is used to give numbering to list items.

Attributes Parameters

type i, I, a, A, 1

start any number

<body>

<ol>

<li>Monitor</li>

<li>Keyboard</li>

<li>Mouse</li>

<li>CPU</li>

<li>Printer</li>

<li>Scanner</li>

<li>Mic</li>

<li>Speaker</li>

<li>Joustick</li>

<li>Plotter</li>

<li>Camera</li>

<li>External Storage</li>

<li>Projector</li>

</ol>

<ol type="a">

<li>Monitor</li>

<li>Keyboard</li>

<li>Mouse</li>

<li>CPU</li>

<li>Printer</li>

<li>Scanner</li>

<li>Mic</li>

<li>Speaker</li>

<li>Joustick</li>

<li>Plotter</li>

<li>Camera</li>

<li>External Storage</li>

<li>Projector</li>

</ol>

<ol type="I" start="5">

<li>Monitor</li>

<li>Keyboard</li>

<li>Mouse</li>

<li>CPU</li>

<li>Printer</li>

<li>Scanner</li>

<li>Mic</li>

<li>Speaker</li>

<li>Joustick</li>

<li>Plotter</li>

<li>Camera</li>

<li>External Storage</li>

<li>Projector</li>

</ol>

<ol type="a" start="19">

<li>Monitor</li>

<li>Keyboard</li>

<li>Mouse</li>

<li>CPU</li>

<li>Printer</li>

<li>Scanner</li>

<li>Mic</li>

<li>Speaker</li>

<li>Joustick</li>

<li>Plotter</li>

<li>Camera</li>

<li>External Storage</li>

<li>Projector</li>

</ol>

</body>

ii)Unordered List

- it is also called as bulleted list

- it is used to give bullets to list items

Attributes Parameters

type disc, circle, square

Nested list

- List inside list is called nested list

Definition list

- it is also called as descriptive list

- it is used to give definitions to definition terms

- <dt> is used to specify definition term

- <dd> is used to specify definition data / description

<dl>

<dt>Monitor</dt>

<dd> A computer monitor is an output device that displays information in pictorial or text form. A monitor usually comprises a visual display, some circuitry, a casing, and a power supply. The display device in modern monitors is typically a thin film transistor liquid crystal display (TFT-LCD) with LED backlighting having replaced cold-cathode fluorescent lamp (CCFL) backlighting. Previous monitors used a cathode ray tube (CRT) and some Plasma (also called Gas-Plasma) displays. Monitors are connected to the computer via VGA, Digital Visual Interface (DVI), HDMI, DisplayPort, USB-C, low-voltage differential signaling (LVDS) or other proprietary connectors and signals.</dd>

<dt> Keyboard</dt>

<dd> A computer keyboard is a peripheral input device modeled after the typewriter keyboard[1] which uses an arrangement of buttons or keys to act as mechanical levers or electronic switches. Replacing early punched cards and paper tape technology, interaction via teleprinter-style keyboards have been the main input method for computers since the 1970s, supplemented by the computer mouse since the 1980s.</dd>

<dt> Mouse</dt>

<dd> A computer mouse (plural mice, sometimes mouses)[nb 1] is a hand-held pointing device that detects two-dimensional motion relative to a surface. This motion is typically translated into the motion of a pointer on a display, which allows a smooth control of the graphical user interface of a computer. The first public demonstration of a mouse controlling a computer system was in 1968. Mice originally used two separate wheels to track movement across a surface; one in the X-dimension and one in the Y. </dd>

<dt> Printer</dt>

<dd> In computing, a printer is a peripheral machine which makes a persistent representation of graphics or text, usually on paper.[1] While most output is human-readable, bar code printers are an example of an expanded use for printers.[2] Different types of printers include 3D printers, inkjet printers, laser printers, and thermal printers.[3</dd>

<dt> Scanner</dt>

<dd> An image scanner—often abbreviated to just scanner—is a device that optically scans images, printed text, handwriting or an object and converts it to a digital image. Commonly used in offices are variations of the desktop flatbed scanner where the document is placed on a glass window for scanning. Hand-held scanners, where the device is moved by hand, have evolved from text scanning "wands" to 3D scanners used for industrial design, reverse engineering, test and measurement, orthotics, gaming and other applications.</dd>

</dl>

HTML representational tags

<blockquote>

- it specifies a section that is quoted from another source

<pre> / <xmp>

- it is preformatted text

<sub>

- subscript

<sup>

- superscript

<small>

- smaller fonts

<i>

- italic text

<u>

- underlined text

<b> / <strong>

- bolder text

<body>

I am noraml text <small>I am less important text</small><br>

I am noraml text <b>I am important text</b><br>

I am noraml text <strong>I am important text</strong><br>

I am noraml text <i>I am italic text</i><br>

<p>Hello this is <sub>subscript</sub></p>

<p>Hello this is <sup>superscript<sup></p>

(8)<sub>10</sub> = (1000)<sub>2</sub><br>

(2)<sup>4</sup> = 16

<p>Observe my font</p>

<pre>Observe my font</pre>

<xmp>Observe my font</xmp>

BlueYonder

<blockquote>

At sanctus at erat ipsum sed labore amet et, dolor sanctus diam dolores dolores aliquyam. Sit clita magna et ut sed accusam no et. Sed kasd magna ipsum est kasd takimata, sanctus lorem sadipscing eirmod duo diam et at ut, accusam sanctus nonumy nonumy duo sed et, duo lorem ipsum sanctus stet no dolor takimata tempor, diam dolor elitr takimata kasd eirmod, ipsum diam no nonumy dolore at magna erat, dolores et amet magna rebum, sit duo clita nonumy lorem sed gubergren labore erat eirmod. Erat sanctus consetetur lorem ea, sed ipsum clita dolores est. Sanctus sit justo et invidunt eirmod lorem, sit takimata dolor gubergren kasd kasd amet stet no tempor. Kasd sit sed elitr rebum, lorem eirmod diam et justo sit labore clita dolore consetetur. Takimata sanctus labore diam et tempor tempor takimata dolore invidunt. Stet eos ipsum voluptua elitr invidunt labore aliquyam justo dolores. Ea sadipscing duo elitr et. Justo sit accusam rebum magna dolor kasd et est, justo ipsum sed dolor sanctus lorem. Et et justo et ut at lorem, voluptua takimata aliquyam amet diam no gubergren diam, diam takimata clita dolores sed gubergren vero kasd kasd. No invidunt invidunt magna eirmod sit, consetetur no at.

</blockquote>

</body>

HTML Tables

- Tables are used to represent data in tabular form

- Tables are created using <table> tag

- Table rows are represented using <tr> tag.

- Table cells (data) represented using <td> tag.

- Table headings are represented using <th> tag.

- Table is devided into two sections head and body section.

- Table head is represented using <thead> tag.

- Table body is represented using <tbody> tag.

Attributes Parameters

border px

bordercolor color

bgcolor color

background image

height px / %?

width px / %

align left, right, center

valign top, bottom, middle

rules rows, cols, all, none

cellspacing px

cellpadding px

rowspan number

colspan number

<body>

<table border=5 cellspacing=5 cellpadding=5 align=center bordercolor="blue" bgcolor="yellow" height=500 width=500>

<thead>

<tr>

<th>Sr\_no</th>

<th>P\_id</th>

<th>P\_name</th>

<th>P\_cost</th>

</tr>

</thead>

<tbody>

<tr align="center">

<td>1</td>

<td>111</td>

<td>P\_one</td>

<td>10000</td>

</tr>

<tr valign=bottom>

<td>2</td>

<td>222</td>

<td>P\_two</td>

<td>20000</td>

</tr>

<tr valign=top>

<td>3</td>

<td>333</td>

<td colspan=2>P\_three</td>

<td>30000</td>

</tr>

<tr>

<td>4</td>

<td rowspan=2>444</td>

<td>P\_four</td>

<td>40000</td>

</tr>

<tr align="right">

<td>5</td>

<td bgcolor="pink">555</td>

<td>P\_five</td>

<td>50000</td>

</tr>

</tbody>

</table>

</body>

<span>

- it is used to apply inline styles on some specific span.

<body>

<h1 style="color:green">

<span style="color:yellow">Good Afternoon </span>

<span style="font-size:50px">students</span>, what are you doing

<span style="color:white; text-shadow:0px 0px 1px black">now a days</span>?

</h1>

</body>

<div>

- by using this tag we can design a web page as multiple divisions

Attributes parameters

align left, right, center

<div style="background-color: black;">

<div align=center>

<div style="width:600px; height : 100px; background-color:orange"></div>

<div style="width:600px; height : 100px; background-color:white" align = "center">

<img src="Ashoka\_Chakra.png" height=100px>

</div>

<div style="width:600px; height : 100px; background-color:green"></div>

</div>

</div>

Other inputs

color

date

month

week

time

file

...

<input type = "color">

<br><br>

<input type = "date">

<br><br>

<input type = "month">

<br><br>

<input type = "week">

<br><br>

<input type = "time">

<br><br>

<input type = "file">

Enlist HTML 5 before and after inputs

<marquee>

- it is a scrolling piece of html document

Attributes Values

width px / %

height px

direction up, down, left, right

behaviour scroll, slide, alternate

scrolldelay number(85ms)

scrollamount number(6px)

loop number(infinite)

bgcolor color

hspace px / %

vspace px / %

<marquee direction=right> Welcome to HTML world</marquee>

<marquee direction=up> Welcome to HTML world</marquee>

<hr>

<marquee scrolldelay=80> Welcome to HTML world</marquee>

<marquee> Welcome to HTML world</marquee>

<marquee scrollamount=10> Welcome to HTML world</marquee>

<hr>

<marquee behavior="scroll"> Welcome to HTML world</marquee>

<marquee behavior="slide"> Welcome to HTML world</marquee>

<marquee behavior="alternate"> Welcome to HTML world</marquee>

HTML 5 new tags

<article> It defines the independent or self-contained content of a webpage.

<aside> It defines the content which provide information about the main content.

<bdi> It is used to isolate the part of text which might be formatted in another direction.

<details> It defines additional information which only visible as per user demand.

<dialog> It represents a dialog box or other interactive components.

<figcaption> It defines caption for the <figure> element.

<figure> It defines a self-contained content, and referenced as a single unit.

<footer> It represents the footer section of the webpage.

<header> It defines the introductory or navigational content of the webpage.

<main> It specifies the main content of the HTML document.

<mark> It represent the text which is highlighted or marked for reference or notation purposes.

<meter> It represents a scalar value within a known range.

<nav> It represents the section which contains navigation links.

<progress> It defines a progress bar which shows completions progress of a task.

<rp> It defines alternative content for the browser which do not support ruby annotations.

<rt> It defines explanations and pronunciations of characters in ruby annotations.

<ruby> It defines ruby annotations (Specifically for Asian language).

<section> It defines a generic section within an HTML document.

<summary> It defines summary or caption for a <details> element which can be clicked to change the state of <details> element.

<time> It defines data/time within an HTML document.

<wbr> It specifies a line break opportunity. (Where line break possible)

Graphics Tags

<canvas> It allows drawing graphics and animations via scripting.

<svg> It is used to draw scalable vector graphics.

HTML5 Media Tags

<audio> It defines sound content.

<embed> It defines a container for external files/application/media.

<source> It defines multiple media resources for the media elements.

<track> It defines text tracks for <audio> and <video> files

<video> It defines video content within HTML document.

HTML5 New Inputs

* color Color selector, which could be represented by a wheel or swatch picker
* date Selector for calendar date
* datetime-local Date and time display, with no setting or indication for time zones
* datetime Full date and time display, including a time zone.
* email Input type should be an email.
* month Selector for a month within a given year
* number A field containing a numeric value only
* range Numeric selector within a range of values, typically visualized as a slider
* search Term to supply to a search engine. For example, the search bar atop a browser.
* tel Input type should be telephone number.
* time Time indicator and selector, with no time zone information
* url Input type should be URL type.
* week Selector for a week within a given year

On Basis of HTML and HTML 5 design your own resume

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