SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

COURSE NAME: 19CT503 – Internet Programming
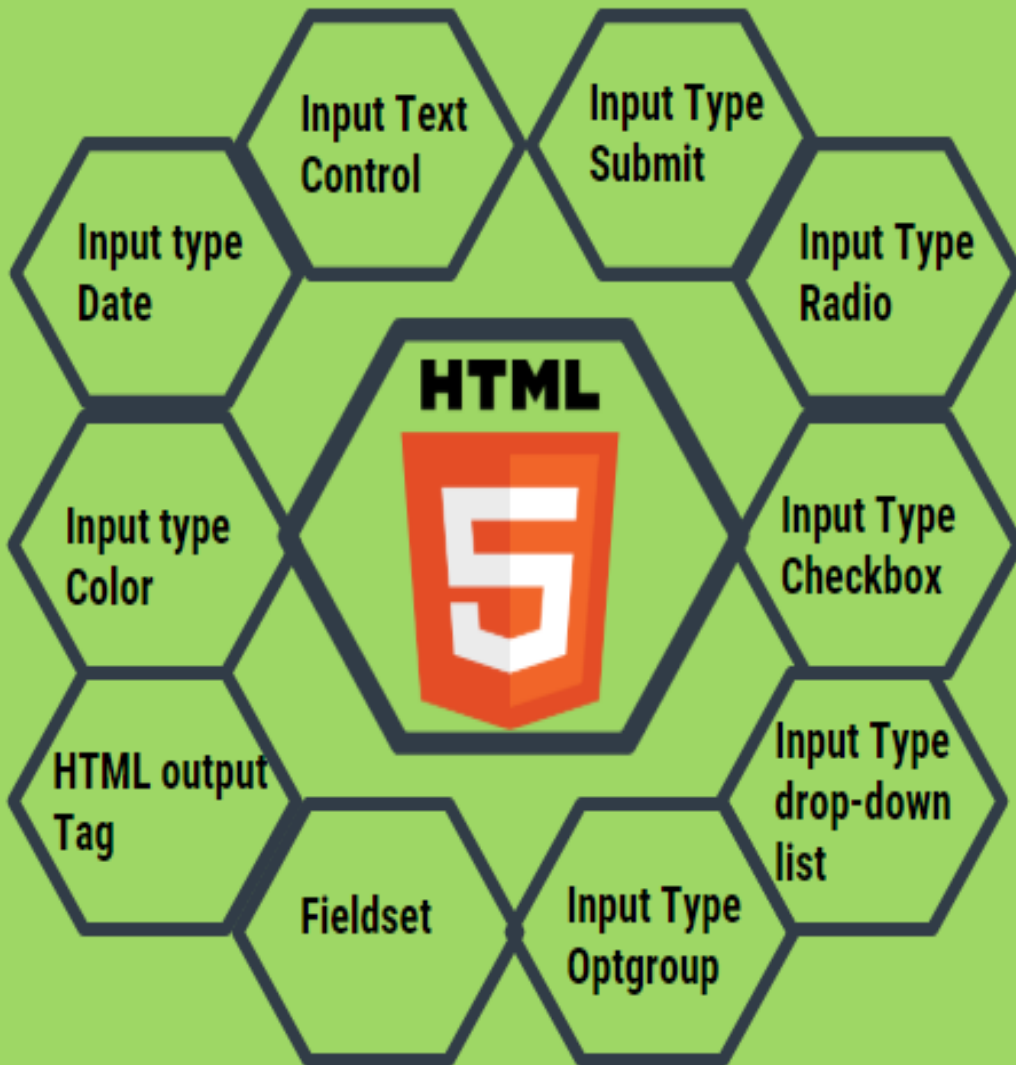
III YEAR /V SEMESTER

Unit 1- WEBSITE BASICS

Topic : **HTML5 CONTROL ELEMENTS**

HTML Control Elements

- HTML Control Elements are responsible to accept the User input in a specified manner.

- These elements can be grouped together inside a form to collect data from a User in a User-friendly manner.

Input Text Control

- Input text controls are used to collect User data as a free text. On the web page, it will form a rectangle box where Users can input the data.

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form>
  First name:
  <input type="text" name="firstname">
  <br>
  <br>
  <input type="submit" value="Submit">
</form>

</body>
</html>
```

HTML Forms

First name: [   ]

[Submit]

Multi-line Input Text Control
<textarea>

- This input control type allows the user to enter data of multiple lines.

- Typical usage of such input controls is for comments, addresses, description and so on.

```
<!DOCTYPE html>
<html>
<body>

<h2>Text Area</h2>

<form action="">
Address:<br>
<textarea rows = "5" cols = "60" name = "description">
 Enter details here...
</textarea><br>
<br>
<br>
<input type="submit" name="psw">
</form>

</body>
</html>
```

Text Area

Address:
```
 Enter details here...
```

Submit

Password Input Control

- This is typically used for the password field.

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML Forms</h2>

<form>
  Password:
  <input type="password" name="password">
  <br><br>
  <input type="submit" value="Submit">
</form>

</body>
</html>
```

HTML Forms

Password: [•••••••••••]

[Submit]

Input Type Submit

- When input type is of submitting it performs the action defined in the form action and sends the form data to the server.

```html
<!DOCTYPE html>
<html>
<body>

<h2>Submit Button</h2>

<form action="/action_login.php">
User name:
<input type="text" name="userName" value="sa">
<br>
Last name:
<input type="password" name="password" value="Password1">
<br><br>
<input type="submit" value="Submit">
</form>

</body>
</html>
```

Input Type Radio

- Radio buttons are used when you expect Users to fill data as a Boolean value or you expect only one input as true out of multiple options.

```html
<!DOCTYPE html>
<html>
<body>

<h2>Radio Buttons</h2>

<form>
<p>Employee Type</p>
  <input type="radio" name="type" value="Regular" checked> Regular<br>
  <input type="radio" name="type" value="Temporary"> Temporary<br>
  <input type="radio" name="type" value="other"> Other<br><br>
  <input type="submit">
</form>

</body>
</html>
```

Radio Buttons

Employee Type

- ◉ Regular
- ○ Temporary
- ○ Other

[Submit]

Input Type Checkbox

- A checkbox lets the User select whatever information is true in his case.

- It is a very convenient way of accepting the data when the possible input is already known.

```html
<!DOCTYPE html>
<html>
<body>

<h2>Checkboxes</h2>

<form>
<input type="checkbox" name="LI" value="LI">Life Insurance
<br>
<input type="checkbox" name="VI" value="VI">Vehicle Insurance
<br>
<input type="checkbox" name="HI" value="HI">Health Insurance
<br><br>
<input type="submit">
</form>

</body>
</html>
```

Checkboxes

☐ Life Insurance
☐ Vehicle Insurance
☐ Health Insurance

[Submit]

Input Type drop-down list

- The drop-down list enables the user to select one option out of multiple possible options.

```html
<!DOCTYPE html>
<html>
<body>

<h2>drop-down list</h2>

<form>
  <select name="location">
    <option value="Mumbai">Mumbai</option>
    <option value="Bangalore">Bangalore</option>
    <option value="Delhi">Delhi</option>
    <option value="Hyderabad">Hyderabad</option>
  </select>
  <br><br>
  <input type="submit">
</form>

</body>
</html>
```

drop-down list

Mumbai ▼

Submit

Input Type Optgroup

- Optgroup works in a similar way as of the drop-down list, the only difference is that the optgroup lets you to logically group certain options under one umbrella.

```html
<!DOCTYPE html>
<html>
<body>

<select>
  <optgroup label="Maharastra">
    <option value="Mumbai">Mumbai</option>
    <option value="Pune">Pune</option>
  </optgroup>
  <optgroup label="Chhattisgarh">
    <option value="Raipur">Raipur</option>
    <option value="Bhilai">Bhilai</option>
  </optgroup>
</select>

</body>
</html>
```

Fieldset & output Tag

- Fieldset is another useful tag in the Html form which let the developer to logically group certain controls under one legend.

- Display the output of a calculation instantly

```html
<!DOCTYPE html>
<html>
<body>

<h2>Grouping Form Controls with Fieldset</h2>

<form>
  <fieldset>
    <legend>Login:</legend>
    User name:<br>
    <input type="text" name="UserName">
    <br>
    Password:<br>
    <input type="password" name="password">
    <br><br>
    <input type="submit" value="Submit">
  </fieldset>
</form>

</body>
</html>
```
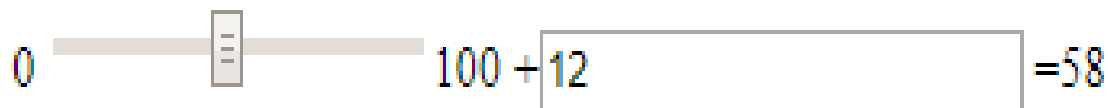
Grouping Form Controls with Fieldset

Login:
User name:

Password:

Submit

```
<!DOCTYPE html>
<html>
<body>

<form oninput="x.value=parseInt(item1.value)+parseInt(tax.value)">0
<input type="range" id="item1" value="50">100
+<input type="number" id="tax" value="12.5">
=<output name="x" for="item1 tax"></output>
</form>

</body>
</html>
```

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Input type Color

- It is often required in the form to just show the color instead of any text.

- It shows the color which you want to display in the form.

```html
<!DOCTYPE html>
<html>
<body>

<h2>Project Status</h2>

<form>
 Current Status:
  <input type="color" name="favcolor" value="#ff0000">
</form>

</body>
</html>
```

Project Status

Current Status:

Input type Date

- Input type date is commonly used Date of Birth, Hiring date, termination date and so on.

```html
<!DOCTYPE html>
<html>
<body>

<h2>Date Field</h2>

<form>
  Hire Date:
  <input type="date" name="bday">
  <input type="submit">
</form>

</body>
</html>
```

Date Field

Hire Date: [dd-mm-yyyy] [Submit]

THANK YOU