HTML - 4

FORMS

FORMS

- The HTML <form> tag is used to create an HTML form and it has following syntax –
- <form action = "Script URL" method = "GET | POST">

form elements like input, textarea etc.

</form>

- An HTML form provides data gathering functionality to a web page.
- The data submitted can be processed at the web server.
- JavaScript allows the validation of data entered into a form at the client side.
- JavaScript can be used to ensure that only valid data is returned to a server for further processing.

HTML Form Controls

There are different types of form controls that you can use to collect data using HTML form –

- Text Input Controls
- Checkboxes Controls
- Radio Box Controls
- Select Box Controls
- File Select boxes
- Clickable Buttons
- Submit and Reset Button

Text Input Controls

There are three types of text input used on forms –

- Single-line text input controls This control is used for items that require only one line of user input, such as search boxes or names. They are created using HTML <input> tag.
- Password input controls This is also a single-line text input but it masks the character as soon as a user enters it. They are also created using HTMI
 <input> tag.
- Multi-line text input controls This is used when the user is required to give details that may be longer than a single sentence. Multi-line input controls are created using HTML <textarea> tag.

Single-line text input controls

Sr.No	Attribute & Description
1	type Indicates the type of input control and for text input control it will be set to text .
2	name Used to give a name to the control which is sent to the server to be recognized and get the value.
3	value This can be used to provide an initial value inside the control.
4	size Allows to specify the width of the text-input control in terms of characters.
5	maxlength Allows to specify the maximum number of characters a user can enter into the text box.

<!DOCTYPE html>

<html>

<head>

<title>Text Input Control</title>

</head>

<body>

<form >

First name: <input type = "text" name = "first_name" />

Last name: <input type = "text" name = "last_name" /> </form>

</body>

</html>

output



Password input controls

Sr.No	Attribute & Description
1	type Indicates the type of input control and for password input control it will be set to password.
2	name Used to give a name to the control which is sent to the server to be recognized and get the value.
3	value This can be used to provide an initial value inside the control.
4	size Allows to specify the width of the text-input control in terms of characters.
5	maxlength Allows to specify the maximum number of characters a user can enter into the text box.

- <!DOCTYPE html>
- <html>
 - <head>
 - <title>Password Input Control</title>
 - </head>
 - <body>
 - <form >

```
User ID : <input type = "text" name = "user_id" />
```

-

- Password: <input type = "password" name = "password" /> </form>
- </body>
- </html>

Multiple-Line Text Input Controls

Sr.No	Attribute & Description
1	name Used to give a name to the control which is sent to the server to be recognized and get the value.
2	rows Indicates the number of rows of text area box.
3	cols Indicates the number of columns of text area box

<!DOCTYPE html> <html> <head> <title>Multiple-Line Input Control</title> </head> <body> <form> Description :
 <textarea rows = "5" cols = "50" name = "description"> Enter description here... </textarea> </form> </body> </html>

Checkbox Control

Checkboxes are used when more than one option is required to be selected. They are also created using HTML <input> tag but type attribute is set to **checkbox**.

Sr.No	Attribute & Description
1	type Indicates the type of input control and for checkbox input control it will be set to checkbox.
2	name Used to give a name to the control which is sent to the server to be recognized and get the value.
3	value The value that will be used if the checkbox is selected.
4	checked Set to <i>checked</i> if you want to select it by default.

<!DOCTYPE html> <html> <head> <title>Checkbox Control</title> </head> <body> <form> <input type = "checkbox" name = "maths" value = "on"> Maths <input type = "checkbox" name = "physics" value = "on"> Physics </form> </body> </html>

Output: Maths Physics

Radio Button Control

Radio buttons are used when out of many options, just one option is required to be selected. They are also created using HTML <input> tag but type attribute is set to **radio**.

Sr.No	Attribute & Description
1	type Indicates the type of input control and for checkbox input control it will be set to radio.
2	name Used to give a name to the control which is sent to the server to be recognized and get the value.
3	value The value that will be used if the radio Button is selected.
4	checked Set to <i>checked</i> if you want to select it by default.

```
<!DOCTYPE html>
<html>
 <head>
   <title>Radio Box Control</title>
 </head>
 <body>
   <form>
    <input type = "radio" name = "subject" value = "maths"> Maths
    <input type = "radio" name = "subject" value = "physics"> Physics
   </form>
 </body>
</html>
```

Output:

O Maths **O** Physics

Select Box Control

A select box, also called drop down box which provides option to list down various options in the form of drop down list, from where a user can select one or more options.

Following is the list of important attributes of **<select> tag** –

Sr.No	Attribute & Description
1	name Used to give a name to the control which is sent to the server to be recognized and get the value.
2	size This can be used to present a scrolling list box.
3	multiple If set to "multiple" then allows a user to select multiple items from the menu.

Select Box Control

Following is the list of important attributes of **<option> tag** –

Sr.No	Attribute & Description
1	value The value that will be used if an option in the select box box is selected.
2	selected Specifies that this option should be the initially selected value when the page loads.
3	label An alternative way of labeling options

```
<!DOCTYPE html>
<html>
 <head>
   <title>Select Box Control</title>
 </head>
 <body>
   <form>
    <select name = "dropdown">
      <option value = "Maths" selected>Maths/option>
      <option value = "Physics">Physics</option>
    </select>
   </form>
 </body>
</html>
```



File Upload Box

If you want to allow a user to upload a file to your web site, you will need to use a file upload box, also known as a file select box. This is also created using the <input> element but type attribute is set to **file**.

Sr.No	Attribute & Description
1	name Used to give a name to the control which is sent to the server to be recognized and get the value.
2	accept Specifies the types of files that the server accepts.

```
<!DOCTYPE html>
<html>
 <head>
   <title>File Upload Box</title>
 </head>
 <body>
   <form>
    <input type = "file" name = "fileupload" accept = "image/*" />
   </form>
 </body>
</html>
```

Choose File

Button Controls

There are various ways in HTML to create clickable buttons. You can also create a clickable button using <input>tag by setting its type attribute to **button**. The type attribute can take the following values –

Sr.No	Type & Description
1	submit This creates a button that automatically submits a form.
2	reset This creates a button that automatically resets form controls to their initial values.
3	button This creates a button that is used to trigger a client-side script when the user clicks that button.
4	image This creates a clickable button but we can use an image as background of the button.

<!DOCTYPE html> <html> <head> <title>Button Control </title> </head> <body> <form> <input type = "submit" name = "submit" value = "Submit" /> <input type = "reset" name = "reset" value = "Reset" /> <input type = "button" name = "ok" value = "OK" /> <input type = "image" name = "imagebutton" src = "logo.png" /> </form> </body> </html>