HTML

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INDEX

HTML FORMS

❖ HTML Forms are required when you want to collect some data from the site visitor.

❖ A form will take input from the site visitor and then will post it to a back-end application.

❖ 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>
```

FORM ATTRIBUTES

❖The most frequently used form attributes are:

Attribute	Description
Action	Specifies an address (url) where to submit the form (default: the submitting page).
Method	Specifies the HTTP method used when submitting the form (default: GET)
Target	Specify the target window or frame where the result of the script will be displayed. It takes values like _blank, _self, _parent etc.
enctype	You can use the enctype attribute to specify how the browser encodes the data before it sends it to the server. Possible values are: • application/x-www-form-urlencoded - This is the standard method most forms use in simple scenarios. • mutlipart/form-data - This is used when you want to upload binary data in the form of files like image, word file etc.

Example

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

➢Hidden Controls

➢Clickable Buttons

➢Submit and Reset Button

FORM CONTROLS

❖Single-line text input controls

```
<input type="text" name="FirstName" value="This is a text field" />
```

❖Attributes

Attribute	Description
Type	Indicates the type of input control and for text input control it will be set to text.
Name	Used to give a name to the control which is sent to the server to be recognized and get the value.
Value	This can be used to provide an initial value inside the control.
Size	Allows to specify the width of the text-input control in terms of characters.
Maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

FORM CONTROLS

❖Single-line text input controls

```
<input type="text" name="FirstName" value="This is a text field" />
```

❖Attributes

Attribute	Description
Type	Indicates the type of inp[...] will be set to text.
Name	Used to give a name to [...] be recognized and get t[...]
Value	This can be used to provide an initial value inside the control.
Size	Allows to specify the width of the text-input control in terms of characters.
Maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

First name:

Last name:

FORM CONTROLS…..

❖Password input controls

```
<input type="password" name="pass" />
```

❖Attributes

Attribute	Description
Type	Indicates the type of input control and for text input control it will be set to text.
Name	Used to give a name to the control which is sent to the server to be recognized and get the value.
Value	This can be used to provide an initial value inside the control.
Size	Allows to specify the width of the text-input control in terms of characters.
Maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

FORM CONTROLS.....

❖Password input controls

```
<input type="password" name="pass" />
```

❖Attributes

Attribute	Description
Type	Indicates the type of input control and for text input control it will be set to text.
Name	Used to give a nam... recognized and get...
Value	This can be used t...
Size	Allows to specify the width of the text-input control in terms of characters.
Maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

User name:

Sudha

User password:

•••••

FORM CONTROLS

❖Multiple-Line Text Input Controls

```
<textarea name="Comments">This is a multi-line
text field</textarea>
```

❖Attributes

Attribute	Description
Name	Used to give a name to the control which is sent to the server to be recognized and get the value.
rows	Indicates the number of rows of text area box.
cols	Indicates the number of columns of text area box

FORM CONTROLS

❖Multiple-Line Text Input Controls

```
<textarea name="Comments" rows="10" cols="30">This
is a multi-line text field</textarea>
```

❖Attributes

Attribute		
Name	Used to give a name be recognized and get	be
rows	Indicates the numbe	
cols	Indicates the numbe	

This is a multi-line text field

FORM CONTROLS

❖Checkbox Control

```
<input type="checkbox" name="vehicle1" value="Bike"> I
have a bike<br>
   <input type="checkbox" name="vehicle2" value="Car"> I
have a car
```

❖Attributes

Attribute	Description
type	Indicates the type of input control and for checkbox input control it will be set to checkbox.
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
value	The value that will be used if the checkbox is selected.
checked	Set to checked if you want to select it by default.

FORM CONTROLS

❖Checkbox Control

```
<input type="checkbox" name="vehicle1" value="Bike"> I
have a bike<br>
  <input type="checkbox" name="vehicle2" value="Car"> I
have a car
```

❖Attributes

Attribute	Description
type	Indicates th... will be set t...
name	Used to giv... recognized ...
value	The value that will be used if the checkbox is selected.
checked	Set to checked if you want to select it by default.

☑ I have a bike
☑ I have a car

FORM CONTROLS

❖Radio Button Control

```
<input type="radio" name="gender" value="male" checked>
Male
<input type="radio" name="gender" value="female"> Female
<input type="radio" name="gender" value="other"> Other
```

❖Attributes

Attribute	Description
type	Indicates the type of input control and for checkbox input control it will be set to radio.
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
value	The value that will be used if the radio box is selected.
checked	Set to checked if you want to select it by default.

FORM CONTROLS

❖Radio Button Control

```
<input type="radio" name="gender" value="male" checked>
Male
<input type="radio" name="gender" value="female"> Female
<input type="radio" name="gender" value="other"> Other
```

❖Attributes

Attribute	Description
type	Indicates th... will be set t...
name	Used to giv... recognized...
value	The value that will be used if the radio box is selected.
checked	Set to checked if you want to select it by default.

- ◉ Male
- ○ Female
- ○ Other

FORM CONTROLS

❖Select Box Control

```
<select name="gender">
  <option value="Male"
    selected="selected">Male</option>
  <option value="Female">Female</option>
  <option value="Other">Other</option>
</select>
```

❖Attributes

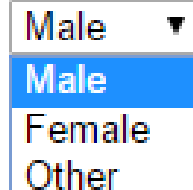| Attribute	Description
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
size	This can be used to present a scrolling list box.
multiple	If set to "multiple" then allows a user to select multiple items from the menu.

FORM CONTROLS

❖Select Box Control

```
<select name="gender">
  <option value="Male"
    selected="selected">Male</option>
  <option value="Female">Female</option>
  <option value="Other">Other</option>
</select>
```

❖Attributes

Attribute	Description
name	Used to give a name to the co... be recognized and get the value.
size	This can be used to present a
multiple	If set to "multiple" then allows a user to select multiple items from the menu.

FORM CONTROLS

❖File Upload Box

```
<input type="file" name="fileupload"
accept="image/*" />
```

❖Attributes

Attribute	Description
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
accept	Specifies the types of files that the server accepts.

❖Hidden Form Controls

```
<input type="hidden" name="Account" value="This
is a hidden text field" />
```

FORM CONTROLS

❖File Upload Box

```
<input type="file" name="fileupload"
accept="image/*" />
```

❖Attributes

Attribute	Description
name	Used ... recog...
accept	Specifies the types of files that the server accepts.

Select a file: [Choose File] 5086.HTML5...yout_2.jpg [Submit]

❖Hidden Form Controls

```
<input type="hidden" name="Account" value="This
is a hidden text field" />
```

FORM CONTROLS

❖The Button Element

```
<button type="button" onclick="alert('Hello World!')">Click Me!</button>
```

❖Attributes

Attribute	Description
name	Specifies a name for the button
Type	Specifies the type of button (button, reset, submit)
value	Specifies an initial value for the button

FORM CONTROLS

❖Button Controls

Type	Description
Submit	This creates a button that automatically submits a form.
Reset	This creates a button that automatically resets form controls to their initial values.
Button	This creates a button that is used to trigger a client-side script when the user clicks that button.
Image	This creates a clickable button but we can use an image as background of the button.

THE SUBMIT BUTTON

❖**<input type="submit">** defines a button for submitting the form data to a form-handler.

❖The **form-handler** is typically a server page with a script for processing input data.

❖The **form-handler** is specified in the form's **action attribute**:

```
<form action="/action_page.php">
  First name:<br>
  <input type="text" name="firstname" value="Mickey">
<br>
  Last name:<br>
  <input type="text" name="lastname" value="Mouse">
<br><br>
  <input type="submit" value="Submit">
</form>
```

THE ACTION ATTRIBUTE

❖The action attribute defines the action to be performed when the form is submitted.

❖Normally, the form data is sent to a web page on the server when the user clicks on the submit button.

```
<form action="/action_page.php">
```

THE METHOD ATTRIBUTE

❖The method attribute specifies the HTTP method (GET or POST) to be used when submitting the form data

```
<form action="/action_page.php" method="get">
```

❖or

```
<form action="/action_page.php" method="post">
```

❖**When to use GET?**

❖The default method when submitting form data is GET.

❖However, when GET is used, the submitted form data will be **visible** in the page address field:

THE METHOD ATTRIBUTE

❖Always use POST if the form data contains sensitive or personal information.

❖The POST method does not display the submitted form data in the page address field.

❖POST has no size limitations, and can be used to send large amounts of data.

THE NAME ATTRIBUTE

❖Each input field must have a name attribute to be submitted.

❖If the name attribute is omitted, the data of that input field will not be sent at all.

```
<form action="/action_page.php">
  First name:<br>
  <input type="text" value="Mickey"> <br>
  Last name:<br>
  <input type="text" name="lastname" value="Mouse">
<br><br>
  <input type="submit" value="Submit">
</form>
```

HTML Input Attribute

❖The **value** Attribute - specifies the initial value for an input field:

```
<form action="">
First name:<br>
<input type="text" name="firstname" value="Mickey">
</form>
```

❖The **readonly** Attribute - specifies that the input field is read only (cannot be changed):

```
<form action="">
First name:<br>
<input type="text" name="firstname" value=" Mickey " readonly>
</form>
```

HTML INPUT ATTRIBUTE

❖The **disabled** Attribute - specifies that the input field is disabled

```
<form action="">
First name:<br>
<input type="text" name="firstname" value=" Mickey "
disabled>
</form>
```

❖The **size** Attribute - specifies the size (in characters) for the input field:

```
<form action="">
First name:<br>
<input type="text" name="firstname" value=" Mickey "
size="40">
</form>
```

FORM LABELS

❖ Form labels are used to associate an explanatory text to a form field using the field's ID.

```
<label for="fn">First Name</label>
<input type="text" id="fn" />
```

❖ Clicking on a label focuses its associated field (checkboxes are toggled, radio buttons are checked)

Example

FIELDSET

❖Fieldsets are used to enclose a group of related form fields:

```
<form method="post" action="form.aspx">
    <fieldset>
        <legend>Client Details</legend>
        <input type="text" id="Name" />
        <input type="text" id="Phone" />
    </fieldset>
    <fieldset>
        <legend>Order Details</legend>
        <input type="text" id="Quantity" />
        <textarea cols="40" rows="10"
            id="Remarks"></textarea>
    </fieldset>
</form>
```

❖The <legend> is the fieldset's title.

FORM CONTROLS EXAMPLE

```html
<form method="post" action="apply-now.php">
  <input name="subject" type="hidden" value="Class" />
  <fieldset><legend>Academic information</legend>
    <label for="degree">Degree</label>
    <select name="degree" id="degree">
      <option value="BA">Bachelor of Art</option>
      <option value="BS">Bachelor of Science</option>
      <option value="MBA" selected="selected">Master of
        Business Administration</option>
    </select>
    <br />
    <label for="studentid">Student ID</label>
    <input type="password" name="studentid" />
  </fieldset>
  <fieldset><legend>Personal Details</legend>
    <label for="fname">First Name</label>
    <input type="text" name="fname" id="fname" />
    <br />
    <label for="lname">Last Name</label>
    <input type="text" name="lname" id="lname" />
```

FORM CONTROLS EXAMPLE CONT.

```html
<br />
    Gender:
    <input name="gender" type="radio" id="gm" value="m" />
    <label for="gm">Male</label>
    <input name="gender" type="radio" id="gf" value="f" />
    <label for="gf">Female</label>
  <br />
   <label for="email">Email</label>
   <input type="text" name="email" id="email" />
</fieldset>
  <p>
   <textarea name="terms" cols="30" rows="4"
     readonly="readonly">TERMS AND
CONDITIONS...</textarea>
  </p>
  <p>
    <input type="submit" name="submit" value="Send Form" />
    <input type="reset" value="Clear Form" />
  </p>
</form>
```

FORM CONTROLS EXAMPLE CONT.

BUTTON CONTROLS EXAMPLE

```html
<html>
<head>
<title>File Upload Box</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="/html/images/logo.gif" />
</form>
</body>
</html>
```

BUTTON CONTROLS EXAMPLE

```html
<html>
<head>
<title>File Upload Box</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="/html/images/logo.gif" />
</form>
</body>
</html>
```

REVISION

❖ What is the difference between form get and form post?

❖ What are the different attributes of Form tag?

❖ Why do we need Name attribute in input field?

❖ What is the difference between input type "Submit" and input type "Button"?

ASSIGNMENT

❖Create a basic student registration form containing following fields:

    ❖First Name – input box

    ❖LastName – input box

    ❖Date of Birth – 3 drop down boxes for date, month and year

    ❖Email id – input - box

    ❖Mobile Number – input box

    ❖Gender – Radio Button

    ❖Postal Address – text area

    ❖Permanent Address – text area

    ❖City – input box

    ❖State – drop down

    ❖Pincode – input box

    ❖Course Interested in – drop down

    ❖Query - textarea

Thank you!

Contact Us

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