



HTML: Forms

Introduction



- HTML Forms are required, when data needs to be collected from the site visitor
- A form will take input from the site visitor and then will post it to a back-end application
- The back-end application will perform required processing on the passed data based

The form tag



- <form> tag is used to create an HTML form
- Syntax –<form>form elements</form>

Attributes



- Some of important attributes in HTML are:
 - Action Attribute
 - Method Attribute
 - Target Attribute
 - Name Attribute

The form tag



- <form> tag is used to create an HTML form
- Syntax –

```
<form action = "Script URL" method = "GET | POST">
form elements like input, textarea etc.
</form>
```

Action attributes



- Defines the action to be performed when the form is submitted
- The form data is sent to a web page on the server when the user clicks on the submit button
- In the example, the form data is sent to a page on the server called "/action_page.php"
- This page contains a server-side script that handles the form data:

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

If the action attribute is omitted, the action is set to the current page.

Target attribute



- Specifies if the submitted result will open in a new browser tab, a frame, or in the current window
- The default value is "_self": form will be submitted in the current window
- "_blank": form result open in a new browser tab
- Example

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

Method attribute



 Specifies the HTTP method (GET or POST) to be used when submitting the form data

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

Using GET Method



- It is the default method
- the submitted form data will be visible in the page address field
- Appends form-data into the URL in name/value pairs
- The length of a URL is limited (about 3000 characters)
- Never use GET to send sensitive data
- Useful for form submissions where a user wants to bookmark the result
- GET is better for non-secure data, like query strings in Google

Using POST Method



- Used when the form data contains sensitive or personal information
- Does not display the submitted form data in the page address field
- No size limitations
- used to send large amounts of data
- Form submissions cannot be bookmarked

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

<input> Element



- Most important form element
- Can be displayed in several ways, depending on the type attribute

Туре	Description
<input type="text"/>	Defines a one-line text input field
<input type="radio"/>	Defines a radio button (for selecting one of many choices)
<input type="submit"/>	Defines a submit button (for submitting the form)

<input> Element



```
•input type="button">
•<input type="checkbox">
•<input type="color">
•<input type="date">
•<input type="datetime-local">
•<input type="email">
•<input type="file">
•<input type="hidden">
•<input type="image">
•<input type="month">
•<input type="number">
•<input type="password">
•<input type="radio">
•<input type="range">
•<input type="reset">
•<input type="search">
•<input type="submit">
•<input type="tel">
•<input type="text">
•<input type="time">
•<input type="url">
•<input type="week">
```





HTML: Form Controls

Form Control



Different types of form controls 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

Text Input Control



There are three types of text input used on forms -

- Single-line text input controls
- Password input controls
- Multi-line text input controls

Single-line text input controls

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- This control is used for items that require only one line of user input, such as search boxes or names
- Created using HTML <input> tag

```
<!DOCTYPE html>
<html>
 <head>
   <title>Text Input Control</title>
 </head>
 <body>
   <form >
    First name: <input type = "text" name = "first name" />
    <hr>
    Last name: <input type = "text" name = "last name" />
   </form>
 </body>
</html>
```

First name:

Last name:

Attributes



Sr. No.	Attribute	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

Password Input Controls



- A single-line text input
- Masks the character as soon as a user enters it
- Created using HTML
 <input>tag but type
 attribute is set to password

```
<!DOCTYPE html>
<html>
 <head>
   <title>Text Input Control</title>
 </head>
 <body>
   <form >
    User ID: <input type = "text" name = "User ID" />
    <hr>
    Password: <input type = "password" name = "password" />
   </form>
 </body>
</html>
```

User ID:	
Password:	

Attributes



Sr. No.	Attribute	Attribute & Description
1	type	Indicates the type of input control and for text 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

Multiple-Line Text Input Controls



- This is used when the user is required to give details that may be longer than a single sentence
- Created using HTML <textarea> tag

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

Description:

Enter description here...

Attributes



Sr.No	Attributes	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

Checkbox Control



- Checkboxes are used when more than one option is required to be selected
- Created using HTML <input> tag
- type attribute is set to checkbox

```
<!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>
```

☐ Maths ☐ Physics

Attributes



Sr.No	Attribute	Description
1	Types	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 checked if you want to select it by default.

Radio button Control



- Used when out of many options, just one option is required to be selected
- Created using HTML <input> tag
- type attribute is set to radio

```
<!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>
```

O Maths O Physics

Attributes



Sr.No	Attribute	Description
1	Types	Indicates the type of input control and for radio button 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 checked if you want to select it by default.

Select Box Control

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

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



Attributes: <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.

Attributes: <option> tag



Sr.No	Attribute & Description	
1	value The value that will be used if an option in the select 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	

File Upload Box



- Allow a user to upload a file
- Also known as a file select box
- Created using the <input> element
- Type attribute is set to file

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

Choose File No file chosen

Attributes: <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	accept Specifies the types of files that the server accepts.

Hidden Form Control

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- Hide data inside the page which later on can be pushed to the server
- This control hides inside the code and does not appear on the actual page

```
<!DOCTYPE html>
<html>
 <head>
   <title>File Upload Box</title>
 </head>
 <body>
   <form>
    This is page 10
    <input type = "hidden" name = "pagename" value = "10" />
    <input type = "submit" name = "submit" value = "Submit" />
    <input type = "reset" name = "reset" value = "Reset" />
   </form>
 </body>
</html>
```

This is page 10

Submit | Reset

Button Controls

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- There are various ways in HTML to create clickable buttons
- Created using <input>tag
- By setting its type attribute is **button**

```
<!DOCTYPE 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" />
</form>
 </body>
</html>
```

Submit Reset OK

Attributes: <select> tag



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.



Thankyou