HTML Form

An **HTML form** is *a section of a document* which contains controls such as text fields, password fields, checkboxes, radio buttons, submit button, menus etc.

An HTML form facilitates the user to enter data that is to be sent to the server for processing such as name, email address, password, phone number, etc. .

## Why use HTML Form

HTML forms are required if you want to collect some data from of the site visitor.

## HTML Form Syntax

1. **<form** action="server url" method="get|post"**>**
2. //input controls e.g. textfield, textarea, radiobutton, button
3. **</form>**

## HTML <form> element

The HTML <form> element provide a document section to take input from user. It provides various interactive controls for submitting information to web server such as text field, text area, password field, etc.

# HTML form Attribute

## HTML <form> element attributes

In HTML there are various attributes available for <form> element which are given below:

## HTML action attribute

The action attribute of <form> element defines the process to be performed on form when form is submitted, or it is a URI to process the form information.

The action attribute value defines the web page where information proceed. It can be .php, .jsp, .asp, etc. or any URL where you want to process your form.

1. **<form** action="action.html" method="post"**>**
2. **</form>**

### HTML method attribute

The method attribute defines the HTTP method which browser used to submit the form. The possible values of method attribute can be:

* **post:** We can use the post value of method attribute when we want to process the sensitive data as it does not display the submitted data in URL.

### Example:

1. **<form** action="action.html" method="post"**>**

* **get:** The get value of method attribute is default value while submitting the form. But this is not secure as it displays data in URL after submitting the form.

### Example:

1. **<form** action="action.html" method="get"**>**

When submitting the data, it will display the entered data in the form of:

1. file:///D:/HTML/action.html?name=deep&pass=123

## HTML target attribute

The target attribute defines where to open the response after submitting the form. The following are the keywords used with the target attribute.

* **\_self:** If we use \_self as an attribute value, then the response will display in current page only.

### Example:

1. **<form** action="action.html" method="get" target="\_self"**>**

* **\_blank:** If we use \_blank as an attribute it will load the response in a new page.

### Example:

1. **<form** action="action.html" method="get" target="\_blank"**>**

## HTML autocomplete attribute

The HTML autocomplete attribute is a newly added attribute of HTML5 which enables an input field to complete automatically. It can have two values "on" and "off" which enables autocomplete either ON or OFF. The default value of autocomplete attribute is "on".

### Example:

1. **<form** action="action.html" method="get" autocomplete="on"**>**

### Example:

1. **<form** action="action.html" method="get" autocomplete="off"**>**

## HTML novalidate attribute HTML5

The novalidate attribute is newly added Boolean attribute of HTML5. If we apply this attribute in form then it does not perform any type of validation and submit the form.

### Example:

1. **<form** action = "action.html" method = "get" novalidate**>**

## HTML <input> element

The HTML <input> element is fundamental form element. It is used to create form fields, to take input from user. We can apply different input filed to gather different information form user. Following is the example to show the simple text input.

## Example:

1. **<body>**
2. **<form>**
3. Enter your name  **<br>**
4. **<input** type="text" name="username"**>**
5. **</form>**
6. **</body>**

## HTML <input> element attribute

## HTML name attribute

The HTML name attribute defines the name of an input element. The name and value attribute are included in HTTP request when we submit the form.

1. **<form** action = "action.html" method = "get"**>**
2. Enter name:**<br><input** type="name" name="uname"**><br>**
3. Enter age:**<br><input** type="number" name="age"**><br>**
4. Enter email:**<br><input** type="email"**><br>**
5. **<input** type="submit" value="Submit"**>**
6. **</form>**

**Note: If you will not use name attribute in any input field, then that input field will not be submitted, when submit the form.**

## HTML value attribute

The HTML value attribute defines the initial value or default value of an input field.

## HTML required attribute HTML5

HTML required is a Boolean attribute which specifies that user must fill that filed before submitting the form.

### Example:

1. **<form>**
2. **<label>**Enter your Email-address**</label><br>**
3. **<input** type="text" name="uname" required**><br><br>**

# HTML Form Input Types

In HTML <input type=" "> is an important element of HTML form. The "type" attribute of input element can be various types, which defines information field. Such as <input type="text" name="name"> gives a text box.

## Following is a list of all types of <input> element of HTML.

|  |  |
| --- | --- |
| **type=" "** | **Description** |
| text | Defines a one-line text input field |
| password | Defines a one-line password input field |
| submit | Defines a submit button to submit the form to server |
| reset | Defines a reset button to reset all values in the form. |
| radio | Defines a radio button which allows select one option. |
| checkbox | Defines checkboxes which allow select multiple options form. |
| button | Defines a simple push button, which can be programmed to perform a task on an event. |
| file | Defines to select the file from device storage. |
| image | Defines a graphical submit button. |

**HTML5 added new types on <input> element. Following is the list of types of elements of HTML5**

|  |  |
| --- | --- |
| **type=" "** | **Description** |
| color | Defines an input field with a specific color. |
| date | Defines an input field for selection of date. |
| datetime-local | Defines an input field for entering a date without time zone. |
| email | Defines an input field for entering an email address. |
| month | Defines a control with month and year, without time zone. |
| number | Defines an input field to enter a number. |
| url | Defines a field for entering URL |
| week | Defines a field to enter the date with week-year, without time zone. |
| search | Defines a single line text field for entering a search string. |
| tel | Defines an input field for entering the telephone number. |