

APPLICATION DEVELOPMENT PRACTICES

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• An HTML form is used to collect user input. The user input is most often sent to a server for processing.





The <form> Element

The HTML <form> element is used to create an HTML form for user input:

<form>

•

form elements

•

</form>

The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

<input> element :



Depending on the type attribute, it can be displayed in many ways

Type Description

<input type="text"> Displays a single-line text input field

<input type="radio"> choices)

Displays a radio button (for selecting one of many

<input type="checkbox"> Displays a checkbox (for selecting zero or more of many choices)

<input type="submit"> Displays a submit button (for submitting the form)

<input type="button"> Displays a clickable button

Text Fields:



• The <input type="text"> defines a single-line input field for text input

```
<!DOCTYPE html>
<html>
<body>
                                                                                              First name:
<h2>Text input fields</h2>
                                                                                              Amypo
                                                                                              Last name:
<form>
                                                                                              Tech
 <label for="fname">First name:</label><br>
 <input type="text" id="fname" name="fname" value="Amypo"><br>
 <label for="lname">Last name:</label><br>
 <input type="text" id="lname" name="lname" value="Tech">
</form>
</body>
</html>
```

Text input fields

<label>Element :



Notice the use of the <label> element in the example above.

- The <label> tag defines a label for many form elements.
- The <label> element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focuses on the input element.
- The <label> element also helps users who have difficulty clicking on very small regions (such as radio buttons or checkboxes) - because when the user clicks the text within the <label> element, it toggles the radio button/checkbox.
- The for attribute of the <label> tag should be equal to the id attribute of the <input> element to bind them together.

Radio Buttons:



- The <input type="radio"> defines a radio button.
- Radio buttons let a user select ONE of a limited number of choices.

```
<!DOCTYPE html>
<html>
<body>
<h2>Radio Buttons</h2>
Choose your favorite Web language:
<form>
  <input type="radio" id="html" name="fav language" value="HTML">
  <label for="html">HTML</label><br>
  <input type="radio" id="css" name="fav language" value="CSS">
  <label for="css">CSS</label><br>
  <input type="radio" id="javascript" name="fav language" value="JavaScript">
  <label for="javascript">JavaScript</label>
</form>
</body>
</html>
```

Radio Buttons

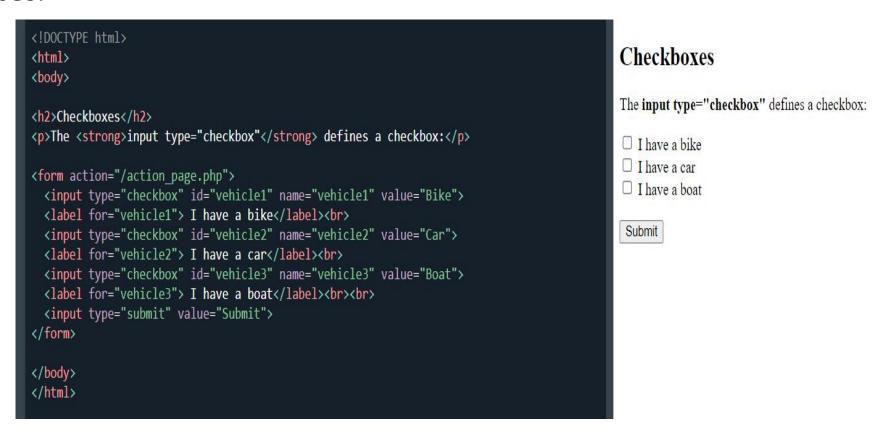
Choose your favorite Web language:

- OHTML
- O CSS
- O JavaScript

Checkboxes:



- The <input type="checkbox"> defines a checkbox.
- Checkboxes let a user select ZERO or MORE options of a limited number of choices.



The Submit Button:



- The <input type="submit"> defines a button for submitting the form data to a form-handler.
- The form-handler is typically a file on the server with a script for processing input data.
- The form-handler is specified in the form's action attribute.

The Name Attribute for <input>

- Notice that each input field must have a name attribute to be submitted.
- If the name attribute is omitted, the value of the input field will not be sent at all.

Example

• This example will not submit the value of the "First name" input field:

```
<form action="/action_page.php">
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" value="John"><br>
  <input type="submit" value="Submit">
  </form>
```

The Action Attribute:



- The action attribute defines the action to be performed when the form is submitted.
- Usually, the form data is sent to a file on the server when the user clicks on the submit button.
- In the example below, the form data is sent to a file called "action_page.php".
- This file contains a server-side script that handles the form data:

Example:

```
<!DOCTYPE html>
                                                                                           HTML Forms
<html>
<body>
                                                                                           First name:
<h2>HTML Forms</h2>
                                                                                           Amypo
                                                                                           Last name:
<form action="/action_page.php">
                                                                                           Tech
  <label for="fname">First name:</label><br>>
  <input type="text" id="fname" name="fname" value="Amypo"><br>
                                                                                            Submit
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname" value="Tech"><br><br></pr>
  <input type="submit" value="Submit">
</form>
</body>
</html>
```



<Select> Element:



The <select> element defines a drop-down list:



The select Element

The select element defines a drop-down list:



<textarea>:



• The <textarea>element defines a multi-line input field (a text area):

```
<!DOCTYPE html>
                                                                                               Textarea
<html>
<body>
                                                                                              The textarea element defines a multi-line input field.
<h2>Textarea</h2>
The textarea element defines a multi-line input field.
                                                                                               The cat was playing in the
                                                                                               garden.
<form action="/action page.php">
  <textarea name="message" rows="10" cols="30">The cat was playing in the garden.
</textarea>
  <br><br><br>>
  <input type="submit">
</form>
</body>
</html>
                                                                                                Submit
```

<datalist>:



• The <datalist> element specifies a list of pre-defined options for an <input> element.

 Users will see a drop-down list of the pre-defined options as they input data.

 The list attribute of the <input> element, must refer to the id attribute of the <datalist> element.



```
<!DOCTYPE html>
<html>
<body>
<h2>The datalist Element</h2>
The datalist element specifies a list of pre-defined options for an input element.
<form action="/action_page.php">
  <input list="browsers" name="browser">
  <datalist id="browsers">
    <option value="Edge">
    <option value="Firefox">
    <option value="Chrome">
   <option value="Opera">
    <option value="Safari">
  </datalist>
  <input type="submit">
</form>
</body>
</html>
```

The datalist Element

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Input type password:



```
<input type="password"> defines a password field:
```

- <!DOCTYPE html>
- <html>
- <body>

<h2>Password field</h2>

The input type="password" defines a password field:

<form action="/action_page.php">



```
<label for="username">Username:
<input type="text" id="username" name="username"><br>
 <label for="pwd">Password:</label><br>
<input type="password" id="pwd" name="pwd"><br><br>
 <input type="submit" value="Submit">
</form>
The characters in a password field are masked (shown as asterisks or
circles).
</body>
</html>
```

Input Type Submit:



- <input type="submit"> defines a button for submitting 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:

Input type reset:



 <input type="reset"> defines a reset button that will reset all form values to their default values:

Input type radio:



- <input type="radio"> defines a radio button.
- Radio buttons let a user select ONLY ONE of a limited number of choices:

Input Type Button:



<input type="button"> defines a button:

• Example :

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

Input Type Color:



- The <input type="color"> is used for input fields that should contain a color.
- Depending on browser support, a color picker can show up in the input field.

Example

```
<form>
<label for="favcolor"> Select your favorite color: </label>
<input type="color" id="favcolor" name="favcolor">
</form>
```

Input type date:



- The <input type="date"> is used for input fields that should contain a date.
- Depending on browser support, a date picker can show up in the input field.

```
<form>
 </form>
<form>
 <label for="datemax"> </label>
 <input type="date" id="datemax" name="datemax" max="1979-</pre>
<input type="date" id="datemin" name="datemin" min="2000-</pre>
01-02">
</form>
```

Input type email:



- The <input type="email"> is used for input fields that should contain an e-mail address.
- Depending on browser support, the e-mail address can be automatically validated when submitted.
- Some smartphones recognize the email type, and add ".com" to the keyboard to match email input.

```
<form>
  <label for="email">enter your email</label>
  <input type="email" id="email" name="email">
  </form>
```

Input type image:



- The <input type="image"> defines an image as a submit button.
- The path to the image is specified in the src attribute.

```
<form>
<input type="image" src="img_submit.gif" alt="Submit" width="48" height="48">
</form>
```

Input type file:

The <input type="file"> defines a file-select field and a "Browse" button for file uploads.

Input type month:



- The <input type="month"> allows the user to select a month and year.
- Depending on browser support, a date picker can show up in the input field.

```
<form>
    <label for="birthdaymonth"></label>
    <input type="month" id="birthdaymonth" name="birthdaymonth">
    </form>
```

Input type number:

- The <input type="number"> defines a numeric input field.
- You can also set restrictions on what numbers are accepted.
- The following example displays a numeric input field, where you can enter a value from 1 to 5:

```
<form>
  <label for="quantity"></label>
  <input type="number" id="quantity" name="quantity" min="1" max="5">
  </form>
```

Input Type Range:



The <input type="range"> defines a control for entering a number whose exact value is not important (like a slider control).

```
<form>
<label for="vol"> </label>
<input type="range" id="vol" name="vol" min="0" max="50">
</form>

Input type search:
<form>
<label for="gsearch"></label>
<input type="search" id="gsearch" name="gsearch">
</form>
```