

JS



Table & Form – HTML5

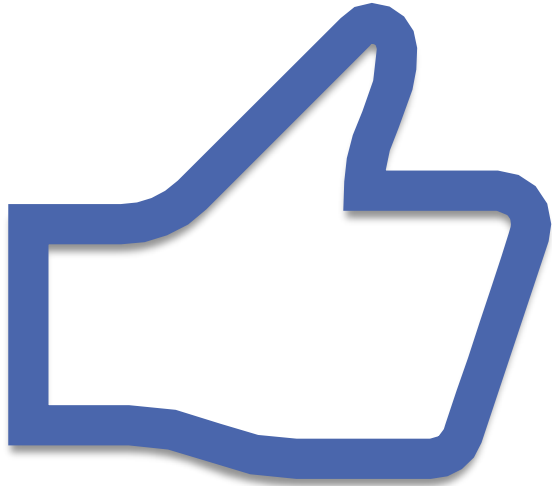
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Table

- ▶ It represents tabular data
 - ▶ information presented in a two-dimensional table comprised of **rows** and **columns**.

```
<table>
  <thead>
    <tr>
      <th colspan="2">The table
header</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>The table body</td>
      <td>with two columns</td>
    </tr>
  </tbody>
</table>
```

Examples



► https://dipaish.github.io/www2020/table_for_rm.html

Forms

← → ↻ 🏠 🔒 webpolsurveys.com/Answer/SurveyParticipation.aspx?SDID=Fin278171&SID=7ae508t

Apps IBM Redbooks The Elements of AL... PDFescape - Free P... PSPP - GNU Project...

Täytä lomakkeen kaikki kentät ja paina "Lähetä". Kiitos palautteestasi!
/ Fill in the form and click "Send". Thank you for your feedback!

Yhteystietosi

Nimi: / Name: *

Sähköposti: / E-mail: *

Palautteeni koskee: / I want to comment on:

☐ Teknistä toimivuutta / Technical functioning

☐ Sisältöä ja rakennetta / Content and structure

☐ Muuta / Other

Jos palautteesi koskee tiettyä sivua tai linkkiä,
ole hyvä ja liitä osoite viestiisi kopioimalla se selaimen
osoiteriviltä.

If you wish to comment on a specific page or link
please copy the url in the browser's address bar and
paste it in the message.

- ▶ Main points of interaction between a user and a web site or application.
- ▶ Forms allow users to enter data, which is generally sent to a web server for processing and storage

Implementing HTML form

- ▶ `<form>`, `<label>`, `<input>`, `<textarea>`, and `<button>`
- ▶ The `<form>` element
 - ▶ All forms start with a `<form>` element
 - ▶ All of its attributes are optional, but it's standard practice to always set at least the **action** and **method** attributes:
 - ▶ The **action** attribute defines the location (URL) where the form's collected data should be sent when it is submitted.
 - ▶ The **method** attribute defines which **HTTP method** to send the data with (usually **get** or **post**)

```
<form action="/my-handling-form-page" method="post">  
</form>
```

What is form validation?

- ▶ The process of checking the data you enter in the form is in the correct format and within the constraints set by the application
- ▶ Validation that is conducted on client-side is client side validation while on the server side is server-side validation
- ▶ Why form validation ?
 - ▶ To get the right data in the right format
 - ▶ To protect users' data such as password
 - ▶ To protect the application from the misuse of unprotected forms

Why Client-side form validation?

- ▶ To ensure all required form controls are filled out, in the correct format
- ▶ An initial check to catch invalid data on the client-side
- ▶ Even with client-side form validation it is strongly recommended to conduct security checks on any form-submitted data on the server-side as well
- ▶ Different type of Client-side form validation
 - ▶ Built in form validation : using HTML5 validation features
 - ▶ JavaScript: JavaScript code to validate form entries

HTML5 Form Validation

- ▶ HTML5 form controls : https://developer.mozilla.org/en-US/docs/Learn/Forms/HTML5_input_types
- ▶ Validation attributes on form elements
 - ▶ required: Specifies whether a form field needs to be filled in before the form can be submitted.
 - ▶ minlength and maxlength: Specifies the minimum and maximum length of textual data (strings)
 - ▶ min and max: Specifies the minimum and maximum values of numerical input types
 - ▶ type: Specifies whether the data needs to be a number, an email address, or some other specific preset type.
 - ▶ pattern: Specifies a regular expression that defines a pattern the entered data needs to follow.

HTML forms

- ▶ `<form>` element is used to get input from the user
 - ▶ `<form>`
 - ▶
 - ▶ `</form>`
- ▶ `<input type = "">` Element type
 - ▶ Text – normal text input
 - ▶ Radio – radio button
 - ▶ Submit – submitting the form
- ▶ Each input field must have a name attribute, can also use default values
- ▶ First name: `<input type="text" value="Pekka" name="firstname">`

Simple form

```
8  <form>
9  <!-- to input text -->
10 Name: <input type="text" name="nm"> <br><br>
11 Address: <input type="text" name="add"> <hr>
12 <!-- Radio Buttons -->
13 <input type="radio" name="sex" value="male" checked>Male <br>
14 <input type="radio" name="sex" value="female">Female <hr>
15 <!-- Submit Button -->
16 <input type="submit" value="Submit">
17 </form>
```

Form action

- ▶ Action defines the action to be executed when the form is submitted
- ▶ `<form action="action.php">`
- ▶ On clicking a submit button, the form in the above example will check for the file `action.php` and will handle the inputs

Form method attribute

- ▶ Specifies HTTP methods : get or post
- ▶ GET
 - ▶ Default method
 - ▶ `<form action="action.php" method="GET">`
 - ▶ On using get form data becomes visible in the page address
 - ▶ Example:
file:///Users/deepakkc/Google%20Drive/2020/Javascript_P2/chp7.html?nm=deepak&add=Helsinki&id=54

Form method attribute

- ▶ To get sensitive data such as password or when updating data
- ▶ Better security as data is not visible in the page address
- ▶ `<form action="action.php" method="POST">`

`<fieldset>`: to group form data

- `<fieldset>` To group related data in a form
- `<legend>` to use a caption for the `<fieldset>` element

Example

```
8  <form>
9    <fieldset>
10     <legend>Personal Info:</legend>
11     <!-- to input text -->
12     Name: <input type="text" name="nm"> <br><br>
13     Address: <input type="text" name="add"> <hr>
14     <!-- Radio Buttons -->
15     <input type="radio" name="sex" value="male" checked>Male <br>
16     <input type="radio" name="sex" value="female">Female <hr>
17     <!-- Submit Button -->
18     <input type="submit" value="Submit">
19   </fieldset>
20 </form>
```

Form Elements

- ▶ Drop Down List
- ▶ Text area
- ▶ Button
- ▶ Input type: text, password, submit, radio, checkbox, date, color, range, month, week, time, datetime, email, search, tel, url

Drop Down List using select

```
8  <form>
9      <fieldset>
10         <legend>Drop-Down List</legend>
11         <select name="course">
12             <option value="js">JavaScript</option>
13             <option value="php">PHP</option>
14             <option value="dbase">Databases</option>
15             <option value="is">Information Security</option>
16         </select>
17     </fieldset>
18 </form>
```

<textarea>

<textarea name="message" rows="10" cols="30">

Write your message here

</textarea>


```
8 <form>
9   <fieldset>
10     <legend>Input Types:</legend>
11     First name:<input type="text" name="firstname"> <br>
12     Last name: <input type="text" name="lastname"><br>
13     Password: <input type="password" name="pass"><br>
14     <input type="radio" name="sex" value="male" checked>Male<br>
15     <input type="radio" name="sex" value="female" checked>Female<br>
16     <input type="checkbox" name="course" value="PHP"> I am learning PHP <br>
17     <input type="checkbox" name="course" value="JS">I am learning JS<br>
18     Input Numbers (1-10)<input type="number" name="quantity" min="1" max="10"><br>
19     Range: <input type="range" name="points" min="0" max="10"><br>
20     E-mail:<input type="email" name="email"><br>
21     Search Box: <input type="search" name="search"><br>
22     Add homepage:<input type="url" name="homepage"><br>
23     <input type="submit" value="Submit">
24   </fieldset>
25 </form>
```

Form Validation with HTML5 examples

- ▶ https://dipaish.github.io/www2020/table_form.html