CMSC335

Web Application Development with JavaScript



Forms

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<label> Input Element

- <label> Input label element that represents a caption for an item in a user interface
- By associating an <input> element with a <label>
 - When the user touches/taps a label, the browser changes the focus to its associated input
 - Screen readers will read out the label when the user is focused on the form input
 - Reference:
 - https://developer.mozilla.org/en-US/docs/Web/HTML/Element/label
- To associate a <label> with an <input> element you have two choices:
 - 1. Nest the <input> element directly inside the <label>
 - 2. Give the <input> element an id and use the <label> **for** attribute with the specified id
- Example: Labels.html

Group Form Elements with <fieldset>

- Group-related form controls in an **<fieldset>** element
 - Rendered in most browsers with a line around the controls inside to show they are grouped

```
<fieldset>
 <legend>Contact details</legend>
 <input... />
 <input... />
 </fieldset>
```



- Use the <legend> tag to give the section a legend at the top
- Example: FieldSet.html

Additional <input> Types

- Types for <input type="OPTION"> OPTION will be range, date, ...
- range For selecting values in a range using a slider. The min, max, step, and value properties allow us to define minimum, maximum, increment, and initial values, respectively
 - Using the Opera browser allows you to see steps
- number Relies on the same properties used by <range>. Using arrows, you can increase or decrease the value
- date, time, datetime-local
- week, month
- **search** Behaves like text, and the main difference is that the browser styles it differently
- **tel** Telephone value
 - Using pattern attribute, we can define a regular expression to control format input

Additional <input> Types

- color You may see a color picker (depending on the browser)
- button Defines a button. You can add functionality using JavaScript.
 It is not the same as submit
- **Example:** FormElements.html (see the style section)
- Try looking at the examples using different browsers
- You can try it on your phone using the following link
 https://www.cs.umd.edu/~nelson/classes/resources/cmsc335/formsExample/FormElements.html
- Reference:

https://www.w3schools.com/html/html_form_input_types.asp

Common <input> Attributes

- value default value for input field
- **size** how much of the input is shown (same as setting CSS width). It is **not** the number of characters you can see
- maxlength maximum number of characters for an input field
- checked element must be selected when the page loads
- max maximum value for input field
- min minimum value for input field
- step number of intervals for input field
- pattern regular expression to check the input value against
- readonly input field cannot be changed
- **disabled** disabled, rendered with dimmer color, do not receive click event and are not submitted with the form
- Example: InputElementAttributes.html

<input> list Attribute

- <input list="DATALIST_ID">
- <datalist> contains recommended or permissible options
- You can specify an alternative to the options
- **Example:** Inputlist.html