W06 Readings

**Forms: event and method submit**

form.submit() is used to send our own forms from JavaScript to servers.

Event: submit

Here are the two ways to submit a form:

click <input type="submit"> or <input type="image">.

press Enter on an input field.

Method: submit

You can use the form.submit() to manually submit a form to the server.

**Client-side form validation**

There are two types of client-side form validation:

1. The HTML built in form validation – better performance but not as customizable.
2. JavaScript validation – More customizable

Build-in form validation

Here are some of the validation attributes reviewed:

* required: Can’t submit a form until the data has been filled in.
* minlength and maxlength: Specifies the minimum and maximum length of text data.
* min and max: Are the minimum and maximum values of numerical input.
* type: Specifies whether the data is a number, an email address, or other type.
* pattern: Specifies the pattern the entered data needs to follow.

Use:

input:invalid – in CSS to decorate an input if the input is invalid.

input:invalid:required – in CSS to decorate an input if the input is both valid and invalid.

input:valid – in CSS to decorate an input if the input is both valid and valid.

Here are the basic regular expressions used as a validation feature for the pattern attribute:

* a — Matches one character that is a (not b, not aa, and so on).
* abc — Matches a, followed by b, followed by c.
* ab?c — Matches a, optionally followed by a single b, followed by c. (ac or abc)
* ab\*c — Matches a, optionally followed by any number of bs, followed by c. (ac, abc, abbbbbc, and so on).
* a|b — Matches one character that is a or b.
* abc|xyz — Matches exactly abc or exactly xyz (but not abcxyz or a or y, and so on).

The constraint validation API

Here are some methods and properties available when using JS:

* HTMLButtonElement (represents a <button> element)
* HTMLFieldSetElement (represents a <fieldset> element)
* HTMLInputElement (represents an <input> element)
* HTMLOutputElement (represents an <output> element)
* HTMLSelectElement (represents a <select> element)
* HTMLTextAreaElement (represents a <textarea> element)