#### **Forms**

Without using JS, there are two basic forms of interaction on the web:

- Following links (<a href="SOME\_URL"> tags)
- Submitting data via forms

Let's look at that second case

# **Basic HTML Tags for Forms**

```
<form action="SOME_URL" method="GET">
<label>N: <input name="field" placeholder="try it"/></label>
<input type="password" name="otherField" value="demo"/>
<input type="checkbox" name="checkField" checked/>
<input type="radio" name="radioField" value="One"/>
<input type="radio" name="radioField" value="Two"/>
<select name="selectField">
    <option value="1">One</option>
    </select>
    <button type="submit">Try it</button>
    </form>
```

## The form tag

<form action="SOME\_URL" method="GET">...</form>

- action of a form is the url to submit to.
  - fully qualified or a relative or absolute path
  - No url means same page
- method is normally GET or POST
  - We'll cover these when we get to HTTP methods
  - GET will send query params in url
  - POST will send params in body of request, not in URL

# **Submitting**

- | <input type="submit">...</input>
- On most browsers: If no submit button defined, use first button
  - Don't Rely On This

The data from the form is submitted to the action url.

The name props of the fields will be the keys

• spaces become + or %20. Special characters will be encoded in hex with % (like %20 being a space)

### **Password fields**

Password fields are NOT secure - they visually hide the text on display, but transmit the data in the clear.

## **Checkboxes**

- Send a value of "on" if checked (by default)
- Will not send a value, or even a field name, if not checked

### **Radio buttons**

- Only one of the same name can be selected at a time
- Will send the value of the selected one as the value of the name/value pair
- Will not send any value (or even the name) if none of the radio buttons of the name are selected

## Select (Dropdown)

- Shows the CONTENT of the option tag on screen
- Sends the VALUE of the option tag
- value defaults to content
  - Don't do this always set a value
  - Separate the appearance from the data
    - You can change the appearance/wording without breaking your data
- Defaults to first option unless one has selected

#### Label

tags allow you to "click" the label as selecting the element

Adds semantic value (connects label to a related field)

label tags auto connect to a child input element

- You can connect them when separate, but requires an id of the element to connect them to
  - You often don't want to have many ids

## **Summary - Forms**

- Direct web navigation is through **links** or **forms**
- Forms send a request to a specified url
  - Full url, Absolute path, or Relative path
  - Sent as GET or POST HTTP requests
  - Browser renders the page in the response
- Data for **GET** is sent in url
  - Data is url-encoded to remove most special characters or spaces
- Data for **POST** is sent in the body

## **Summary - Form HTML**

- HTML describes the input fields for a form
  - name is the data field name attribute
  - value is the data field value attribute
- <a href="#"><label></a> tags can wrap their related content
  - or use the for attribute along with the id of the related tag
- Use CSS to ensure layout/appearance
  - browsers can be inconsistent
- Typing on the form is all IN THE BROWSER
  - Server only knows anything when you submit