Forms and Layouts

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Proper File Structure

You should have a **Web Development** folder on your computer

You should have folders for each class: class1, class2, and now class3

Each class should have a folder for **notes**, and a folder for **practice**

You should have no problem finding/opening any file on your computer

Remember: **SPELLING MATTERS**

Forms

Forms are used to get user input in HTML

The data is then handled by client code, optionally being sent to a server

HTML forms start with the **<form>** tag and contain **form elements**

Form elements are input elements such as: checkboxes, radio buttons, text, submit buttons, etc.

Input elements are specified by the <input> tag

Input tags must have a type (<input type="text">), types include:

- text, normal text
- radio, defines radio buttons
- submit, a submit button

Create a basic form with 2 text inputs, 3 radio buttons, and a submit button

See class3_ex1.html

Input

Input elements should have a name attribute to let the server know what to do

<input type="text" name="firstname">

Form data can be grouped using a **fieldset**, specified by the **<fieldset>** tag

A fieldset element can have a **legend**, specified by the **<legend>** tag, it defines a caption

Other attributes

- action, what to do after pressing submit (we will learn this later)
- autocomplete, whether the browser should autocomplete the form
- Etc.

Add names to your previous form

Surround your form inputs with a fieldset, and give it a legend

See class3_ex1.html

Drop-down Lists

The <select> element defines a drop-down list

<option> elements defines the options to select

Each option element should have a value attribute (for the server)

```
<option value="dogs">Dogs</option>
```

A single option element can have the selected attribute, to make it initially selected

By default, the first one is selected

```
<option value="dogs" selected>Dogs</option>
```

Add a dropdown list to your form

See class3_ex2.html

Text Area

A text area element is defined by the <textarea> tag, it is a multi-line input field

The number of rows and columns (in characters) are defined by attributes

```
<textarea name="message" rows="20" cols="10">
```

I like pets

</textarea>

Buttons

A **button** is something you can click, defined by **<button>**

Buttons have an onClick (in JavaScript)

<button onClick="alert('Hello World!')">Click me!</button>

We will learn more JavaScript later

Put a text area and multiple buttons into your form

See class3_ex3.html

Data Lists

</datalist>

A data list element specifies a list of **pre-defined options** for an input, defined by **<datalist>**Items in a data list are defined by the **<**option**>** tag with a value attribute
The user will see a drop-down list of options as they type
The **list** attribute of the **<input>** tag must match the **id** attribute of the **<datalist>** element
<input list="browsers" name="browser">
<datalist id="browsers">
<option value="Internet Explorer">
<option value="Chrome">

Note: Datalists are not supported in Safari or IE9

Add a datalist to your form

See class3_ex3.html

Additional Input Types

checkbox, a simple checkbox

number, a single number, with optional restrictions

color, a single colour

date, a single date

time, a specific time

datetime, a specific date and time

email, an email

url, an URL or link

See class3_ex4.html

Make a new form to get someone to sign up for your new service

Use fields from the "Additional Input Types"

See class3_ex4.html

Additional Input Attributes

value – the initial value of an input

readonly – an input that cannot be changed (solo)

disabled – an input that is disabled (solo)

size – size in characters of an input field

maxlength – maximum allowable length of an input field

autocomplete – either "on" or "off", tells the browser whether the field can be autocompleted

min – Minimum value for fields that require values

max – Maximum value for fields that require values

placeholder – Placeholder value for when the user has not entered anything

Use some of these attributes

See class3_ex4.html

HTML5 Layouts

<header>, for the top of a document or section

<nav>, for the **navigation** section of the page

<section>, a section in a document

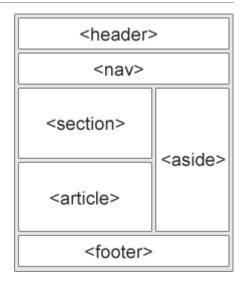
<article>, an independent, self-contained, article

<aside>, content aside from the main content (a sidebar)

<footer>, a footer for a document or section

We will learn more about layouts when we learn CSS

See class3_ex5.html



Create a basic layout for a page using only HTML elements

The page can be about anything

The page should have all of the elements in the previous page

Homework

Submit to @homeworkbot with the tag #webdev-class3

See 3_webdev_homework3.pdf