CMPS 3680 Lab 1

Spring 2024

Part 1 - Create HTML Form

Create a simple form consisting of the following elements (at least):

1. Three required input fields, including an email field
2. One set of required radio buttons
3. One required text area
4. Two optional fields of your choice

In the form tag you will set the following attributes:

1. Set the name to "contactForm"
2. Set the method to "get"
3. Set the action to an empty string
4. Set onsubmit to "return validateForm();"

Part 2 - Javascript Validation and Page Manipulation

There will be two separate sections of javascript. You can write the javascript inline, or in separate files.

Place the first section of javascript in the header and complete the following:

1. Define the function validateForm() and meet these specifications:
   a. Obtain the data from the form using document.forms
   b. Define a boolean "valid_form" to track whether or not the form data is valid
   c. For each required field in the form, if the field is blank you will do two things:
      i. Add the css class "error" to the field
      ii. Update the boolean accordingly
   d. To validate the email field verify that the string contains both an "@" symbol and a period
   e. Once all required fields have been checked, return the "valid_form" variable

Place the second section of javascript right after the </body> tag and complete the following:

1. Obtain the url search parameters using window.location.search and URLSearchParams
2. Display all of the information obtained from step 1 below the form
3. The information should only be displayed once the form has been successfully submitted and validated.

Part 3 - CSS

Spend some time using css to style your form to your liking.

Put in some time here and think about your user's experience. Be creative.

For your error class, set the border, outline, and box shadow to red so the invalid entries stand out.

A few things to consider:

1. If the user enters an invalid option initially, but then fixes it, the error class should no longer be present.
2. You can target full groups for styling by using the same class for all of them, or by targeting specific element types like input[type="text"]
3. Feel free to use any libraries or tools you are comfortable with. jQuery will make your life a bit easier for some of the javascript requirements. We will talk more about this during the lab.
4. This is a simple review of HTML, Javascript, and CSS. We are not making any remote calls, just validating the form and displaying the information on the page.

Once your project is complete, I would expect an invalid form attempt to look something like this:

Contact Form

* First Name	[ ] (red border)
* Last Name	Royer
* Email Address	[ ] (red border)
Telephone Number	[ ]
Major	● CS ○ CE ○ EE ○ OTHER
* Comments	[ ] (red border)
	RESUBMIT

After a successful form submission it should look something like this:

Contact Form

* First Name	[ ]
* Last Name	[ ]
* Email Address	[ ]
Telephone Number	[ ]
Major	○ CS ○ CE ○ EE ○ OTHER
* Comments	[ ]
	SUBMIT

```
First Name: Paul
Last Name: Royer
Email: wroyer@csub.edu
Phone: 123-456-7890
Comments: I love pizza!
Major: CS
```