CST8117 Lab 7: Form Design and Validation (HTML, CSS, JavaScript)

Note you will need to complete this lab by uploading a .zip file containing all the required files onto BrightSpace. The content of this lab's instructions will be included in the weekly quiz given the week after this lab is due. The due date for this lab is posted in the description on BrightSpace. Late labs are penalized -10% each day up to -50%, and after 2 weeks a lab is no longer eligible for points.

Read the entire lab instruction before starting.

This lab is to be completed on BrightSpace. You are required to make a single page for this lab. This page has a set of minimum requirements and must be HTML5 compliant. Please read the instructions carefully. You will be graded for using appropriate (to the style) fonts and colors. Your page will have its own linked CSS file, or you may use embedded CSS but <u>do not</u> use inline CSS please. **If at any time you are unsure or are having problems, consult your lab instructor**.

Required Tools and Resources: Visual Studio Code, zip of collateral files.

Part I: The Story So Far…

Fluffy Friends have been enjoying their partnership with you as their web designer. Their business has increased, and they are considering opening a second location and even plan on hiring a weekend staff. With all this success their needs are shifting so they have come to you asking if you could improve their cat intake form. Their nephew, the one who made their logo, has been trying to learn Adobe XD and has come up with a form design for you to use to improve their cat intake form. They are happy with the existing header and footer but would like you to emulate the prepared design with the following dynamic interactions:

- All elements are to be placed in a form element that will only work if the form is successfully validate. For testing purposes have the action property reload the form using the GET method so that you can see all the named data in the browser URL.
- The right-hand side of the page should be a picture of a cat and only the form portion should scroll until the footer of the page. Any cute picture of a cat will do.
- Some of the interface elements only appear when they are needed, so follow the instructions carefully, also set the tab order of fields to match the following list of fields: cat name, age, days needed, time arrive, time leave, spayed/neutered, diet, describe diet, temperament, owner's name, day phone, cell phone, email, emergency contact name, and contact phone.
- Name of Cat is a required text field.
- Age of Cat should be a number.
- Days Needed is a series of check boxes in a small flexbox. Saturday and Sunday should be disabled for now, they are for the future. At least one box is required to be checked.
- Time Arrive should take a time and round it to the nearest half hour. This time can not be earlier than 6AM and cannot be later than the Time Leave. This is a required field. You should use a dropdown for this field that lists times from 6AM to 12PM in half hour increments. Note that this can be a text field where you use JavaScript to format how it is displayed.
- Time Leave should also take time and round it to the nearest half hour and this time should be not later than 6PM. It should also be later than the Time Arrive value. Time leave is a required field, and you should use a drop down for this field that lists times from 10AM to 6PM in half hour increments.
- Cat spayed/neutered should be a simple check box.
- Special diet is a check box which if selected will make Describe Diet appear below. If it is deselected, then Describe Diet is removed, and its value is deleted if it had one.
- Describe Diet is only present if the cat has special dietary needs and is a simple text box. If Special Diet is checked this field cannot be empty.
- Temperament of Cat is a set of four radio buttons and if the territorial button is chosen then the Describe Territorial text input is revealed and becomes required. You will make it so that only one radio button can be selected. If the user deselects Territorial, then have the Describe Territorial input disappear. A selection from the list is required but you should set friendly as the default.
- Owner's Name is a simple required text field.

- Daytime Phone should be a valid 10-digit phone number. It is not required but either a cell or daytime phone is required (one of them or both).
- Cell Phone should be a valid 10-digit phone number. It is required if a Daytime Phone is omitted.
- Email must be a valid email address (in terms of formatting) and it is not required.
- Emergency Contact Name is a simple required text field.
- Contact Phone is a valid 10-digit phone number and is required.
- The Submit button should be styled like the other Fluffy Friends elements and have a noticeable and appropriate custom hover and focus effect. Choosing this button should attempt to submit the form firing the forms validation script. If the script fails invalid fields will be highlighted for the user. Do not use standard HTML validation. Instead you can add in form feedback (not alerts) and highlighted inputs.

Part IV: Submitting Your Lab

When your code is complete, make sure you zip up all the files created or modified in this lab, including a copy of all your website's images (`lab8.zip`). Make sure when you zip up the files you add the images subdirectory so that when I extract your lab the image links are not broken. It is important that you zip up your files rather than uploading them individually because BrightSpace will modify any unzipped web code that you submit. You should have the following files in your zip file:

- **`register.html`**, any other files needed to view the page.

- **`/images folder with all the image files used in your web page`**

Upload the zip file to BrightSpace.

Marking Rubric (/33)

Task	Weight
All web pages are all properly formatted for HTML5	1
No inline CSS	1
Appropriate font stack choice(s)	1

Appropriate image to decorate the right-hand side of the form and image does not scroll with the form.	3
Form method is GET and form has a validation script	2
Form elements tab in the correct order	2
No standard HTML validation on inputs	2
All input elements are customized in CSS to match the style of Fluffy Friends web pages.	5
Hidden fields are handled as describe in the instructions	3
Radio buttons behave as expected	2
Time Arrive and Time Leave are implemented with drop downs	3
Submit button has a distinct focus/hover effect	2
JavaScript onChange, onClick, and onSubmit are all properly implemented	6