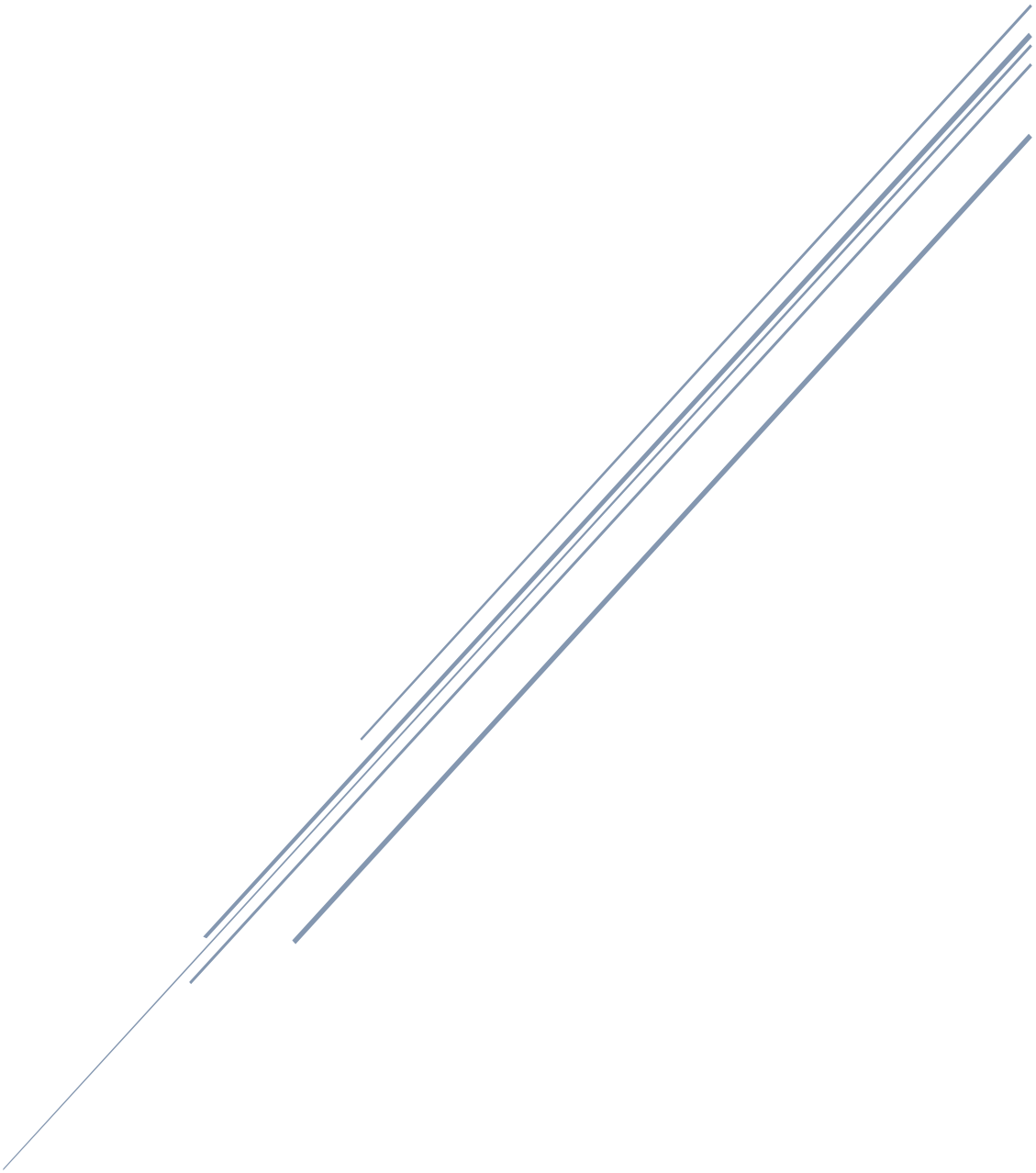
LAB#4WEB PROGRAMMING

CST8285 F2023



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LAB OBJECTIVE

This lab will introduce you to the useful functionality of JavaScript.

The objective of this lab is to get familiar with the following:

1- Using client-side form validation using DOM manipulation.

2- Tracing submitted form data using a GET header (for testing purposes).

Learning Resources

Lecture Slides and resources (week 5 - week 9).

Earning

To earn your mark for this lab, each student should finish the lab's requirements, submit your lab on the Brightspace and demonstrate the working code to the instructor.

Description

Weekly Kitten Pictures has hired you to create the functionality for their website idea. They would like to see how you do with form validation. They have provided you a simple sign-up form which they would like you to customize. You are tasked to add validation with JavaScript to ensure a user cannot submit the form without filling the requirements.

Requirements

Create a "*script.js"* file within a folder named "js" which should be found in the same location as the "*index.html"* file. Inside the script.js file, create a function called "validate". The HTML form is set to execute that specific function when the form is submitted. You will perform client-side verification according to the following criteria:

1. Email textbox value is a valid email structure (xyx@xyz.xyz).
2. Login name should be non-empty (do not use a required tag in HTML) and less than 30 characters long. When you send this data (on

successful validation) convert the login name to all lower-case alphabetic characters (you will confirm this in the get header).

3. Password should be at least 8 characters long.
4. Ensure that **both** the password fields have the same value and are not blank.
5. If the user selects to receive a newsletter, immediately alert them about possible spam by setting an event on this field.
6. Ensure that the terms and conditions are accepted

The form submission should only be successful if the listed requirements are all met. On a successful submission the form should call itself clearing its contents and providing the submitted data in the URI. You should verify that all of the data sent is in the appropriate format. Your HTML form will contain no standard HTML form validation attributes – **all validation will be handled through events tied to JavaScript functions.**

When the user attempts to submit the form then you will provide an inline (either under or beside the incorrect fields) feedback message and you will highlight the fields that are in error. You should use a colour that stands out when it appears as shown in figure 2. Do not use a pop-up alert message for displaying form feedback.

When a user selects to receive a newsletter, the immediate response should be in an **alert pop-up** which they have to dismiss to continue with the form. (Note that pop-ups are often disabled by users, so it is not a reliable way to do form feedback, but we do sometimes use them for informational purposes like this case.)
When a user enters valid data in a particular field, the **error message associated with that field should be cleared, providing immediate feedback without affecting other non-valid data fields**' i.e. When a user corrects an error in a specific field and the input becomes valid, dynamically clear the error message associated with that field. Importantly, ensure that error messages in other fields, which may still contain non-valid data, remain visible until corrected.

Create a CSS file and format the form to look like the form below:

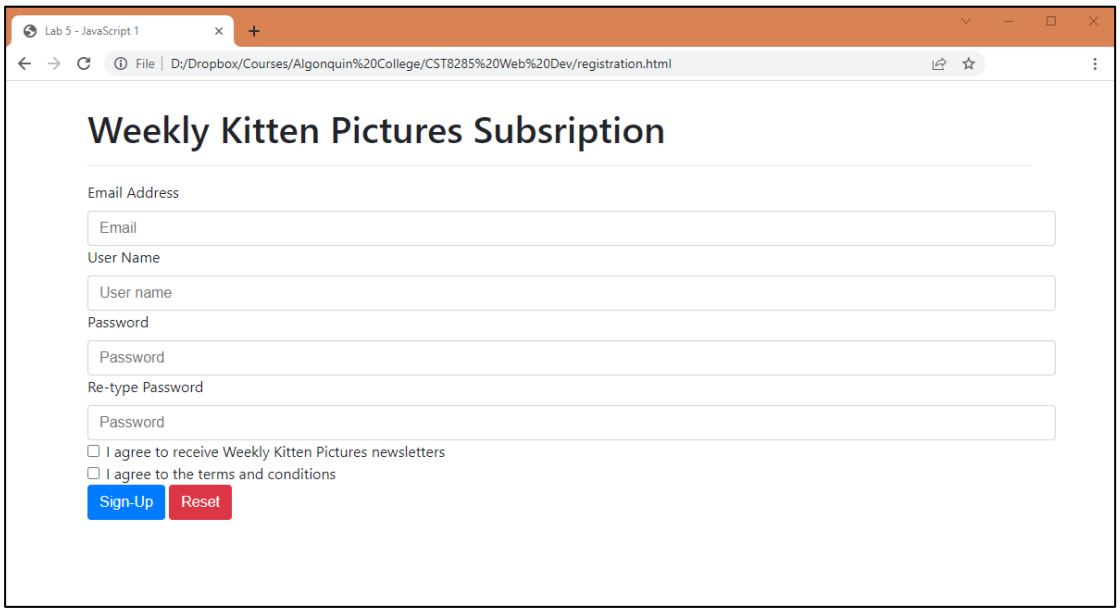

Figure 1.

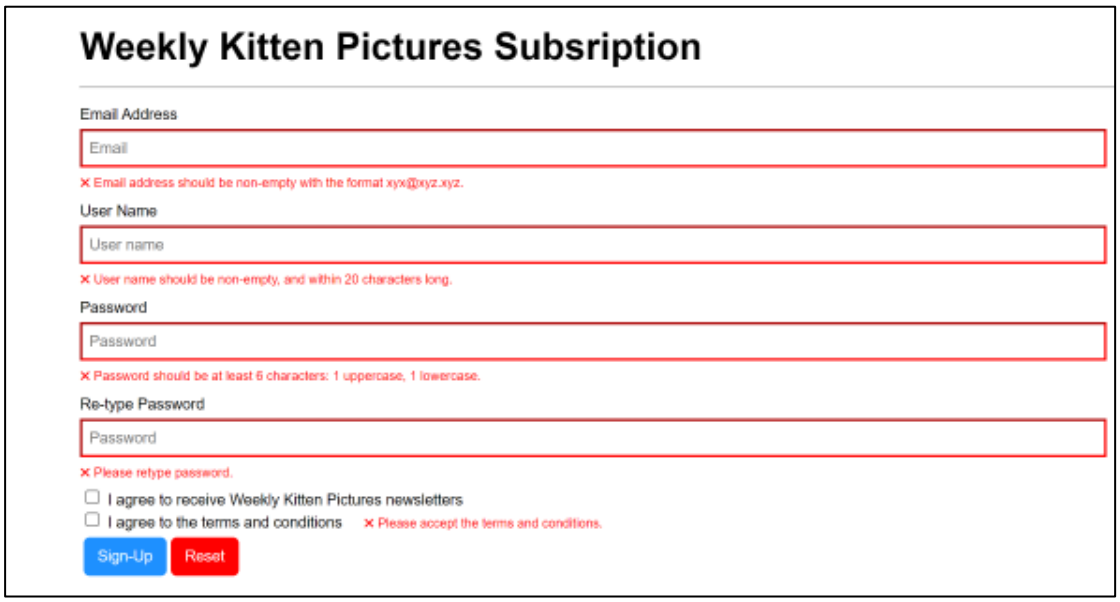

Figure 2.

Other Important Requirements

- Demo and justify your work and answer your lab professor's questions.
- The work will be graded zero if you do not demo it on time, even if uploaded.

Submission

To submit the lab on the Brightspace, you must upload “registration.html” file, your supporting CSS and JavaScript files, and a validation screenshot image in a .zip file.

The zipped file must be named the following: <First Name>_<Last Name>.zip
Note that <First Name> and <Last Name> should be replaced with your first and last name.

Grading Criteria:

Check the rubric for Lab4.