Lab Assignment 1 – Form Validation with JavaScript

Objectives

Learn to use the features of HTML 5 and Javascript to create input forms with validation

Assignment

You are going to create an input form using HTML5 and Javascript. This input form will not submit any database to the server (you learn to do this in the next lab). It will validate and collect information from the user and go to a confirm page that displays the information entered and allows the user to confirm that the information is correct. Below are all the input form fields and the validation required.

It is up to you (the designer) how you present the information request. For example in entering a date you can have a single text box, or you can have multiple boxes with drop down choices. You do, however, have to validate the data to make sure it meets all validation rules.

Field	Validation
Name	The user must enter a first and last names. These cannot be blank. You may use a single text box, but must check for 2 names, or use 2 text boxes.
Address	The user must enter a <u>valid</u> mailing address that follows address rules. A city, state, and zip code must also be included as part of the address. You can use multiple text boxes – or a single one. You must still validate all elements.
Phone Number	A full 10 digit phone number must be entered.
Email Address	User must enter a correctly formatted email address name@domain.extension –
Birth Date	User must enter a valid birthday, make sure to check format and also date – if dates are unreasonable (like in the future) give a warning.
Message	The user will enter a free text message, you should have a multi-line text entry area for the message

Once the user enters all this information in the form and hits submit, you will present the information and allow the user to confirm that it is all correct. The user should not be able to enter invalid data or leave fields blank.

You will submit a lab report with necessary html, and js validation code with output displayed. (Your form should incorporate good color choices and formatting to make it pleasant for the user to fill out).

Estimated Completion Time

This assignment takes about 5-10 hours to complete and fully test your form. After the completion, create a lab report with necessary codes and output displayed and submit it to the CSIT admin room. Last submission date is Friday 26th May of 2023.

Questions and Answers

External Resources

- JavaScript form validation has hundreds of resources at your disposal. You should first understand the concept of form validation, the tutorial at https://www.w3schools.com/js/js_validation.asp will help with that. From there a good understanding of the Form object (it is a tag) is important. You can master this by using the reference at –http://www.w3schools.com/jsref/dom_obj_form.asp . This is also a pretty good time to acquaint yourself to regular expressions if you have not done so already. In addition to my lectures on regex – the reference is here http://www.w3schools.com/jsref/jsref_obj_regexp.asp – but there are also hundreds of regular expressions examples out there.
- Another library of regular expressions – https://gist.github.com/nerdsrescueme/1237767
- Here is a great library of regular expressions – http://regexlib.com/Default.aspx
- A tool for helpful creation of forms is http://www.simfatic.com/

Grading Criteria

(5 points) Simply getting a working form up.

I will try to break your validation. For each validation I can break you lose one point. If my tests cannot get past your validation, you will get 10 points. I will try obvious things like leaving fields blank, entering bad dates, etc…