# CS601: Module 4 Assignment

## General Rules for Homework Assignments

- You are strongly encouraged to add comments to your source code. Doing so will help your facilitator to understand your logic/approach and grade your work more accurately.
- You must work on your assignments individually. You are ***not allowed*** to copy the answers from others. However, you are encouraged to discuss approaches to the homework assignment with your facilitator.
- You are expected to write your own code for all assignments. You may use an IDE or advanced text editor for your assignments, but you *must **not*** use any auto generated code provided by such tools or other applications. So be sure to write your own code in the editor window, don't use the WYSIWYG builder (if applicable).
- Do not use any unapproved code libraries or frameworks.
- Each assignment has a strict deadline. However, you are still allowed to submit your assignment within ***two (2) days*** after the deadline with a penalty. 15% of the credit will be deducted unless you made previous arrangements with your facilitator. Assignments submitted 2 days after the deadline will not be graded.
- When the term *lastName* is referenced in an assignment's file or folder name, please replace it with ***your*** last name.

Create a new folder/directory name d **CS601_HW4_*lastName***. Place your solution(s) to the assignment requirements in this folder.

*NOTE: THIS DOCUMENT CONTAINS MULTIPLE PAGES*

## Form Validation and Submission

**Requirements:**

Using HTML 5, CSS, and JavaScript (no other languages):

1. Create an HTML form with the following form controls:
    a. text input field with a name and id value of: "`firstName`" (required)
        i. When *you* submit the form: enter your first name here
    b. text input field with a name and id value of: "`lastName`" (required)
        i. When *you* submit the form: enter your last name here

    c. text input field with a name and id of: "`facilitator`" (required)
        i. When *you* submit the form: enter your facilitator's first name
    d. a group of radio buttons with your choice of options
    e. a group of check boxes with your choice of values
    f. Style the page with CSS using an external style sheet.
    g. The form action should point to action=https://cs601.bu-course-examples.com/hw4/380a98f5-5191-496f-8aa1-7acc1da83cc5 using the POST method.
2. Use HTML and JavaScript to perform client-side validation based on the following specifications:
    a. Validate both `firstName` and `lastName` to ensure:
        i. a *minimum* length of two (2) characters
        ii. that *only* alpha characters are used (A-Z and a-z)
    b. Validate `facilitator` and constrain the possible valid values to be those of the active facilitators for the course during this semester. For example, if we have facilitators with the following first names: "Jen", "Behdad", "Chris", "Christian", and "Josh" you will ensure that only these values would pass validation
        i. `Jen` OR `Behdad` OR `Chris` OR `Christian` OR `Josh`
    c. `facilitator` is a text input, don't change this into a select or any other type of input.
    d. The form should not be permitted to submit unless all fields pass validation.

When you submit your form, you will be taken to a page, and you will be able to see if your form submission went through successfully or if there was a problem that needs to be fixed first. The first three field values (`firstName`, `lastName`, and `facilitator`) that you enter will be recorded in a database on the server. By including your first name, last name, and facilitator's name, we will know that your form worked correctly. And yes, you can test the form submission as much as you would like, we will remove your duplicate entries from the database.

## Assessment/Grading:

Your assignment submission will be scored by the following criteria:

1. Strict adherence to the requirements stated above: 70%
    a. Includes your submission also rea chin g the database.
2. Code validates without errors (warnings are OK): 10%
3. Level of effort put into error messages: 10 %

    a. Alerts = OK
    b. Writing errors to the DOM = Good
    c. Styling errors written to the DOM = Great!
4. Overall quality of work and effort as determined by your facilitator: 10%

It is important that your code passes validation; you should use http://validator.w3.org for assistance.

You must also validate your CSS code as well, that can be done here: http://jigsaw.w3.org/css-validator/

Note: Preserve the code from this part of the homework, as you may be building upon this in future assignments.

## Submission

Export your **CS601_HW4_*lastName*** folder containing all the relevant sub-folders and files as a zip file and upload the zip file to the appropriate assignment submission area.