Lab #5
CSCI 201

Title
Form Validation with Servlets, JSPs, and AJAX

Lecture Topics Emphasized
HTML
JavaScript
Servlets
JSP
AJAX

Introduction
In the previous lab, you validated the form in a servlet then redirected to a JSP to display error messages. Since AJAX has come into existence, there is no reason to submit to the servlet and refresh the entire page. Instead, we can send the data to the servlet and receive the response without having to refresh the entire page. We can display error messages next to the appropriate fields, making a smoother user experience.

Description
This lab is going to build on the previous lab. The only difference will be how the data is validated. When the user clicks the Submit button on the form, instead of submitting the form to a servlet, you will call a JavaScript function. That function will send all of the data to a servlet and receive the response. The response will either contain the error messages of the fields that were invalid OR no error messages (meaning that the page should be submitted).

If there are error messages returned, the error messages should be printed at the top of the form. (If you want a little more of a challenge, you can print the error messages next to their respective fields instead.)

NOTE: In the previous lab, you had to place all of the data back into the form if there were any errors. Since we have never left the page that contains the form, you won't need to do that in this lab. The data will still be shown in the form fields.

If there are no error messages, the page should submit to another page that will display all of the data.

Grading Criteria
Labs are not graded based on any given criteria but are instead graded on effort and attendance. If you arrived to lab within the first 10 minutes and worked on it the for the entire duration of the lab, you will receive full credit regardless of whether you completed it. TAs will not grade labs until after at least half the lab period has elapsed. Use the lab time as an opportunity to more fully understand the course material and ask your TA questions.