

## Lab #4 CSCI 201

### Title

Form Validation with Servlets and JSPs

### Lecture Topics Emphasized

HTML

JavaScript

Servlets

JSP

### Introduction

Accepting form submissions is one of the primary ways of getting information from users through a web page. However, since a user can type anything at all into form fields, we need to validate the data to ensure accuracy. Older web sites would use JavaScript for validation, but when malicious users became savvy enough to disable JavaScript, back-end web validation had to be implemented.

### Description

In this lab, you are going to create an HTML page that displays a number of different form fields. The content of the form can be whatever you want (user registration, items to purchase, types and descriptions of animals, etc.). You must have all of the following form fields:

text	textarea	select box
radio buttons	checkboxes	color
month	email	range
search	url	submit
reset		

Although there may be some validation that is occurring through HTML5, you will need to then submit all of those fields to a servlet. The servlet will validate that the format of each field is correct AND that every field was required. If any field was not correct or was blank, redirect the page back to the form. Make sure all of the previous values are returned to their respective fields on that page. In other words, if there is an error in one of the fields, all of the data should be put back into the form properly when redirecting back to the original form.

You should print a descriptive error message next to each of the fields that are incorrect.

If all of the data was submitted properly, display it all in a table for the user to see. This should be done by redirecting from the servlet to a JSP.

In short, this means that you should have three different files for this lab – the HTML form, the servlet for validation, and the JSP if successful. Don't worry about including CSS in your page unless you have time and want to make it look a little nicer.

### 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.