Explore how to capture input data and submit the information to the server and display information using servlets along with validation.

INPUT / OUTPUT

Assignment 2

Due Date: Sep 29, 4:00pm

**Assignment has 2 parts**

# Capturing and validation (Client & Server) of form data.

# Create a simple Person form, validate input at client and server level and display output.

**Person Form**

* + Title (Mr/Ms/Mrs) [type=radio]
  + Full Name [type=text]
  + DOB [type=date]
  + Address [<textarea..]
  + Address Type (Home|Office) [<select..]
  + LAST 4 of SSN [type=??]
  + Phone Number [input=??)]

Follow the Steps:

1. Using a JSP create a form using the fields listed above.
   1. Perform Client Side Validation based on the conditions below.
      1. Full Name – Length Min: 3, Max :100
      2. DOB – Required field
      3. Phone Number – Required field
      4. SSN – Required field & Length Min:4, Max:4

Note: Use JavaScript functions or HTML5 attributes to implement validations. (http://www.w3schools.com/js/js\_validation.asp)

1. Create a Servlet to capture the data and display the information within the same servlet
   1. Perform Server Side Validation (Validate the fields below)
      1. Phone Number (Regular Expression: Numeric Only, Starts with 001, 10 Digits excluding Country Code eg: 0015851239876)
      2. SSN – Number Only and 4 digits.
      3. DOB

Note: **Use Servlet init-parameters or Application init-parameter to store the regular expression. (Ref: Core JAVA, Java - String matches() Method for regular expression.)**

* 1. If the data validation fails , display the text in red else in green. For other non-validate fields display in black.

Note: IF you want you add more validates

# Servlet Chaining (Auto Create Resume)

# Assume: You are creating an application that captures data from a user and generates a resume for you.

1. Create a JSP
   1. JSP will capture all input fields from Assignment 1. (Need to decide what type of input or how you want to break down the input)
      1. Input to capture Lines about yourself.
      2. Input to Capture Location (Decide what you want to capture)
      3. Input to Capture Education Information (college name , GPA and other information in independent input fields)
      4. Input to Capture Academic Projects (Project Name 1: …, Project 1 Desc:.. , Project Name 2:…, Project 2 Desc:.. ) Defined fixed number of projects to be captured. If User enters only 1 Project, then display should only display 1 project and description.
      5. List the set of Skills you want to capture. Ask user to input skills based on out of 10.
      6. Any additional information also needs to be captured.
2. After the user hits submits, multiple servlets will process the information
   1. Each servlet responsibility is for one section listed above.

Eg: Create a AboutMeServlet which only display information about me then chain the servlet to next servlet (using forward/include – decide which is better include/forward)

* 1. Chain all the servlets so the output displays all the information at once. ( S1 🡪S2 🡪S3.. )

## Note

1. **No Late Submission**.
2. TA will only assist in Tomcat/Eclipse and JSP/Servlet issues.
3. **Any Student found copying or assisting other students by sharing will receive an F grade.**