# INT222 - Lab 05: HTML Form and validation (Ver 1.1)

### **Due date**

Section D: Sunday, Nov 27, 2016 - 23:59

Grade value: 5% of your final course grade

### **Objective**

- To work with HTML form and CSS styling
- To perform client-side validations.

## **Specifications**

- 1. Create an HTML5 document **lab05.html**), a CSS3 file **lab05.css** and a JavaScript file **lab05.js** under a folder.
- 2. In **lab05.html**, create a form named **signup** to accept user's input for creating a user account. Set the title of the page with "**Sign Up**". Your **lab05** page appearance should **mimic** the screenshot from this **link**.
- 3. In the form **signup**, the user input information will be grouped in to four sections: **Basic information**, **Education**, **Work Experience** and **Attachments**. Add the following elements to each group in the form:

#### a) Basic Information

- Field "Email": type of email, autofocus and required. User needs the email address for logging in the website.
- Field "Password": type of password, required.
- Field "Retype Password": type of password, required.
- Field "First Name": text, user needs to input his/her full name, required.
- Field "Last Name": text, user needs to input his/her full name, required.
- Field "Phone Number": type of tel, user needs to enter his/her phone number, required. This field should show the telephone input format using placeholder.
- Field "Address": text, home address, required.
- Field "City": text, city of the address, required.
- Field "**Province**": dropdown list: select element with options the 10 provinces and 3 territories of Canada, required. The full names of provinces and territories will be

showed up on the list and organized in two groups: **Provinces** and **Territories**. The values for option elements must use standard 2-letter abbreviations.

The ten provinces are *Alberta*, *British Columbia*, *Manitoba*, *New Brunswick*, *Newfoundland* and *Labrador*, *Nova Scotia*, *Ontario*, *Prince Edward Island*, *Quebec*, and *Saskatchewan*. The three territories are *Northwest Territories*, *Nunavut*, and *Yukon*.

• Field "Country": type of text with an datalist, required. Put five countries on the list: Canada, The United States and any other 3 countries in the world.

#### b) Education

- Field "**School**": text, the school that user/student is attending or the last attended, required.
- Field "**Program**": text, program in above school for the student, required.
- Field "Education Level": dropdown list using select and option elements, required.
  The Education Level should choose from the items of -select-, Technical Diploma, College Diploma, Bachelor's Degree, Master's Degree and Others.
  The option tag for the "-select-" should has the value of "0" or an empty string.
- Field "Education Status": type of radio. The value should choose from the list of *Graduated, Current enrolled, Did not graduate*.
- Field "**Graduation Date**": type of date, the date of graduation or anticipated graduation date, optional.

### c) Work Experience

- Field "Employer": text, the current or last employer of the student, optional.
- Field "Job Title": text, the job title of the student in the above company.
- Field "Job Duty": textarea, description of job duties or responsibilities, optional.
- Field "Worked Year": type of number, the number of years for the student worked for his/her above employer, optional. The number user inputs will be in the range of 1 to 20.

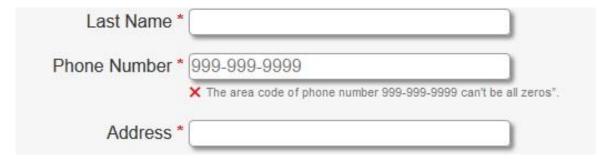
#### d) Attachments

- Add an input with the type of file for attaching files to the application. There is no need to check the MINE type, but user can upload multiple files at a time.
- In addition, form **signup** must have both submit and reset buttons with the values of **Apply** and **Reset**.
- 4. The **signup** form is required to use **post** method and submit to the post tester: <a href="https://formpost.azurewebsites.net/home/test">https://formpost.azurewebsites.net/home/test</a>. The autocomplete feature should be turned on.

**Note**: this form tester in no longer support forms posted from PCs. Try to use this: http://www.cs.tut.fi/cgi-bin/run/~jkorpela/echo.cgi

5. All form fields/controls should have the id and name attributes; each of the form field/control should have a label tag apply to it if possible. Required fields should be lead by \* sign with red color.

- 6. You are required to use CSS to style the page and align form fields. HTML tables are not allowed for aligning form fields in the assignment.
- 7. Some form fields need validation using JavaScript. But Regular Expression is not allowed in the assignment. The validation rules are as following:
  - 1) Field "First Name" and "Last Name"
    - Must be present (cannot be empty string after trimmed)
    - Allowable characters
      - √ alphabetic characters lower case (a-z) upper case (A-Z)
      - √ apostrophe (')
      - √ hyphen (-)
      - ✓ Must have at least 1 alphabetic characters (a-z) (A-Z)
  - 2) Fields "Password" and "Retype Password"
    - Password must contain both upper and lower case characters
    - o At least 1 number
    - At least 8 characters long
    - o The value of the 2 fields must be identical unless one of them is an empty string.
  - 3) Field "Phone Number"
    - Must be present
    - Must be in the format of 999-999-9999 ('9' here means digit only)
    - o The area code **999**-999-9999 can't be all zeros
    - o The actual phone number 999-999-9999 can't be all zeros
  - 4) Field "Education Status"
    - Must select one of these menu options
- 8. For the fields that require validation, your code should validate the field upon user make change to the field if applicable (hint: use **onchange** event handler to call JavaScript functions). Show only one error for a field at a time. Appropriate message must be showed under the invalid field. For example:



- 9. All field input must be valid when sending the form to server.
- 10. Your assignment must pass <u>W3C HTML validation</u>, <u>CSS validation</u> and <u>be free of JS run-time errors/exceptions</u>.

### Lab submission

 Compress your lab folder to a zip file lab05.zip and submit it to the Blackboard (My.Seneca).

# Important note

- NO LATE SUBMISSIONS for labs. Late Lab submissions will not be accepted and will receive a grade of zero (0).
- After the end (23:59) of the due date, the lab submission link on the Blackboard will no longer available.
- All INT222 labs are subject to change after released. It's your responsibility to keep your lab assignments up to date before the lab is submitted.