BTI225 Assignment 5

# Submission Deadline:

Tuesday, August 7th, 2018 @ 11:59 PM

# Assessment Weight:

5% of your final course Grade

# Objective:

* To work with HTML form elements and CSS styling
* To perform client-side validation on user entered data.

# Specification:

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| --- | --- |
| In this assignment you will implement the **HTML, CSS & JavaScript** code to recreate a functioning client-side implementation of a **professional quality Account Registration form** (see sample image to the right). It must match the sample as closely as possible and contain the form controls listed below under "**Form Controls**".  Upon submitting the form, it must adhere to the validation rules outlined below under "**Validation Rules**".  **To get started:**   1. Create an HTML5 document (**assign5.html**), a CSS3 file (**css/assign5.css**) and a JavaScript file (**js/assign5.js**) under a new folder. 2. In **assign5.html**, create a form with id "**signup**" to accept user's input for creating a user account. This form will submit to "**https://httpbin.org/post**"usingthe "**post**" method **only**,when the form **does not contain any validation errors**. Lastly, set the title of the page to read "**Sign Up**". | **Sample Image:**  https://scs.senecac.on.ca/~wei.song/int222/labs/lab05-form.jpg  [Click Here for a larger version](https://github.com/allanrandall/BTI225W17/raw/master/Assignment5/assign5.jpg) |
| **Please note**:     * In order to help you achieve the required CSS to generate the form, you may make use of online tools such as those available on <http://css3gen.com> (ie: [box-shadow](https://css3gen.com/box-shadow/), [text-shadow](https://css3gen.com/text-shadow/) & background [gradient](https://css3gen.com/gradient-generator/) generators). * **<table>** elements are **not permitted** to be used in this assignment for positioning your elements * **Radio buttons**, **file** and **drop down (select)** control appearance **may differ** from browser to browser | |

# **Form Controls**

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:

## "Basic Information" Section

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| --- | --- |
| "**Email**" | Type of **email**, **autofocus** and **required**. User needs the email address for logging in the website. |
| "**Password**" | Type of **password**, **required**. |
| "**Retype Password**" | Type of **password**, **required**. |
| "**First Name**" | Type of **text**, user needs to input his/her full name, **required**. |
| "**Last Name**" | Type of **text**, user needs to input his/her full name, **required**. |
| "**Phone Number**" | Type of **tel**, user needs to enter his/her phone number, **required**. This field should show the telephone input format using a **placeholder** |
| "**Address**" | Type of **text**, home address, **required**. |
| "**City**" | Type of **text**, city of the address, **required**. |
| "**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.** |
| "**Country**" | Type of text with aa datalist, required. Put five countries on the list: Canada, The United States and any other 3 countries in the world. |

## "Education" Section

|  |  |
| --- | --- |
| "**School**" | Type of **text**, the school that user/student is attending or the last attended, **required**. |
| "**Program**" | Type of **text**, program in above school for the student, **required**. |
| "**Education Level**" | **Dropdown list**: **select** and **option** elements, **required**. The Education Level list should contain the following items: **- select -**, **Technical Diploma**, **College Diploma**, **Bachelor's Degree**, **Master's Degree** and **Others**. The option tag for "**- select -**" should have a **value** of **"0"** or an **empty string.** |
| "**Education Status**" | Type of **radio**. The value should choose from one of the following: **Graduated**, Current enrolled, Did not graduate. |
| "**Graduation Date**" | Type of **text**, user needs to input his/her graduation date (any format), **required**. |

## "Work Experience" Section

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| --- | --- |
| "**Employer**" | Type of **text**, the current or last employer of the student, **optional**. |
| "**Job Title**" | Type of **text**, the job title of the student in the above company, **optional**. |
| "**Job Duty**" | Type of **textarea**, description of job duties or responsibilities, **optional.** |
| "**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**. |

## "Attachments" Section

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| --- | --- |
| "**Attachments**" | Type of **file**, user can upload **multiple** files at a time, **optional**. |

## "Reset" & "Apply

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| --- | --- |
| "**Reset**" | Type of **reset**, user can reset the form to the default values by pressing this button. |
| "**Apply**" | Type of **submit**, |

## All Fields & Controls

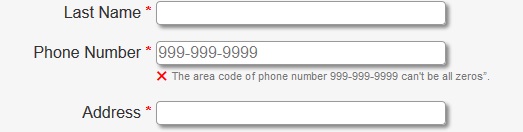
**All form fields/controls** should have **id** and **name** attributes as well as an associated **label** element if possible. Required field labels should be followed by a red asterisk (\*).

# **Validation Rules**

Some form fields require validation using JavaScript. The validation rules are as follows:

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| --- | --- |
| "**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 character (a-z) (A-Z) |
| "**Password**" **and** "**Retype Password**" | * Password must contain both upper and lower case characters * At least 1 number * At least 8 characters long * The value of the 2 fields must be identical unless one of them is an empty string. |
| "**Phone Number**" | * Must be present * Must be in the format of 999-999-9999 ('9' here means digit only) * The area code (first 3 numbers in **999**) can't be all zeros (0)'s * The actual phone number can't be all zeros (0)'s |
| "**Education Status**" | * Must select one of these menu options |

For the fields that require validation, your code should **validate the field** immediately **after** it has been changed (if applicable) (**hint**: use the **onchange** event handler to call JavaScript functions). Show **only one error for a field, at a time.** Appropriate messages must be shown for the invalid field. For example:



# **Other Requirements**

* Your HTML & CSS must be well-formatted and properly commented where appropriate.
* Your code will be evaluated for correctness of syntax and appropriate usage.
* Each HTML page must **pass** the **W3C's HTML Validation**: <https://validator.w3.org/>
* All CSS used in the assignment must **pass** the **W3C CSS Validation**: <https://jigsaw.w3.org/css-validator>
* Your JavaScript code must not contain any **run-time errors/exceptions**.

# **Final Submission Guidelines:**

1. Zip **all of your files** (ie, your **assignment5** folder as **assignment5.zip**).
2. Upload the zip file to **My.Seneca** under **Assignments -> Assignment 5** (same submission procedure as previous assignments).