



# COMP2132 ASSIGNMENT 06

## OBJECTIVES

Demonstrate JavaScript Event Handling, DOM manipulation, and Form Processing

## DUE DATE

Assigned during session06, due 11:59pm the night before session07.

## REQUIREMENTS

Write an HTML form that includes the labels, inputs, and similar default settings as seen in the following screenshot. It does not need to look identical to the screenshot, you should use your own CSS styles and design, but the form must be valid, accessible, and all form components should be well-aligned.

The screenshot shows a web form with the following elements:

- Firstname:** A text input field.
- Lastname:** A text input field.
- Student ID:** A text input field with a red question mark icon to its right.
- Password:** A password input field with a red 'Show' button to its right.
- Date:** A date input field showing '2022 - 06 - 28' with a red 'x' icon to its right.
- Course:** A select dropdown menu showing 'Choose your course:' with a red downward arrow icon to its right.
- Submit:** A red button with the text 'Submit'.

- The **Firstname**, **Lastname** and **Student ID** fields are type **text** inputs
- The **Password** field is a type **password** input
- The **Date** field is a type **date** input
- **Courses** is a select/option box with following options:  
'Choose your course', 'COMP1850', 'COMP2132', 'COMP2913', 'COMP3012', 'COMP3015'  
The 'Choose your course' **option** should include the **selected** and **disabled** attributes
- The **Submit** button is a **submit** input type
- The ? and 'Show/Hide' components can be any HTML element you think is suitable (an `<a>` tag, a `<button>`, something else?)

The form action should send data to a file named **thank-you.html**. The **thank-you.html** file can simply include content that thanks the user for filling in the form, it does not need to actually process the form data.

## <INPUT TYPE='DATE'> RESTRICTIONS

Determine the present day using a JavaScript **Date** Object, and use this value to set the attributes **value=** " and **min=**" so that the default date is today's date, and the user cannot choose a date in the past. Note these attributes require the format **YYYY-MM-DD**, which will need leading zeros if the month or day is a single digit. Examples for working with a **Date** Object are available from **Session04 > code > date.js**

## TOOLTIP POPUP

Have a CSS styled tool tip popup in the HTML that is not displayed by default. It should explain to the user what a valid BCIT ID looks like. If user hovers mouse over the question mark '?' display the tool tip popup positioned next to the question mark. When the user mouse moves out and away from the question mark, hide the popup.

## SHOW/HIDE PASSWORD

Each time the user clicks on the 'Show Password' button, toggle between the following two states:

- The button label is 'Show' and the Password input field is **type** password
- The button label is 'Hide' and the Password input field is **type** text

## FORM VALIDATION

When the user submits the form, have Javascript perform the following validation procedures:

- The **Firstname**, **Lastname**, **Student ID** and **Password** form inputs cannot be left empty, they must all contain user supplied text. Space bar spaces do not count as text.
- The **Courses** form field must have a course selected: the user is not allowed to leave the option on the default "Choose a course:" option.
- The student id must match the following regular expression for BCIT student numbers:  
**const studentNumberRegEx = /^a0[0-9]{7}\$/i;**
- Display descriptive error messages to the web browser for any and all form fields that are not filled out correctly.
- Change the CSS style of any inputs that do not have valid values to highlight their location in the form. If a field has been filled out correctly, inputs must not have any error highlights applied.
- If any problems are detected during validation, prevent the browser from sending the data to the page defined in the form's **action** attribute by using **preventDefault( )**
- If no problems are detected during validation, allow the browser to forward the user to the **thank-you.html** page.

## SUBMISSION

Before the due date, compress all assignment resources (HTML, CSS, JS, images, folders, etc) into a single **.ZIP**. Upload **.ZIP** to **learn.bcit.ca > Content > Session06 > Assignment06 Dropbox**