

Albany State University  
College of Computing Sciences and Engineering  
Department of Information Science

## **WEBD 6201 Client-Side Programming**

### **Assignment 2 jQuery & Form Validation**

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## Assignment 2 – jQuery and Form Validation

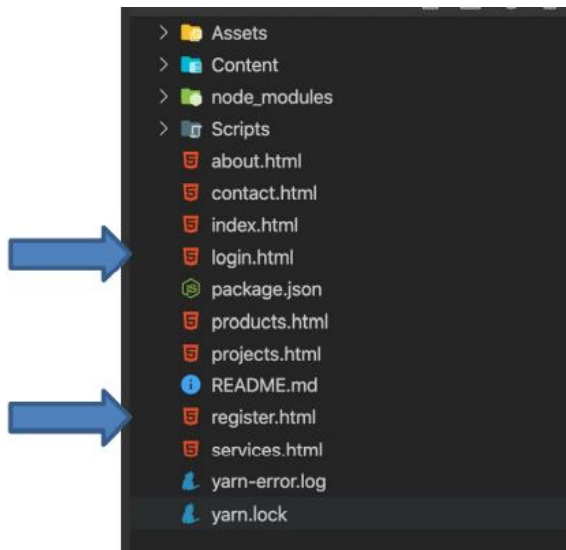
### 1. Assignment Objective

This lab was made to practice and reinforce the use of the jQuery JavaScript library as well as JavaScript form Validation.

### 2. Assignment Instructions

#### Project Setup

- a. For the most part, your folder structure should follow the same structure shown in class. This will include two new pages: a login.html page and a register.html page

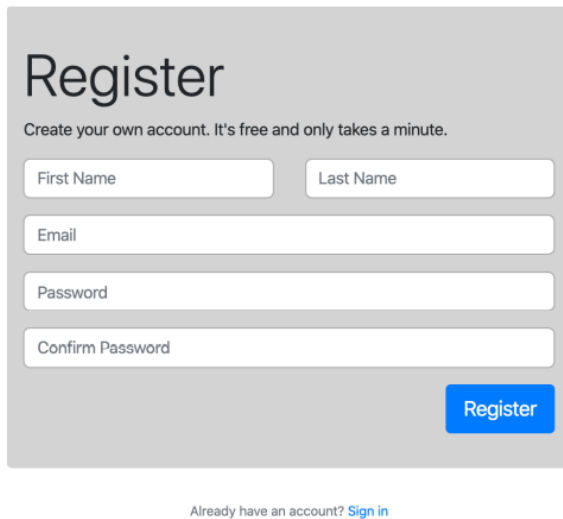


- b. The login.html page must include username and password input elements. Use the following image as a guide to create the form (if needed).

A login form with a title "Login". Below the title are two input fields. The first input field has a user icon and the placeholder text "Enter your username". The second input field has a lock icon and the placeholder text "Enter your password". Below the input fields is a blue button with the text "Login".

Don't have an account? [Register Here!](#)

- c. The register.html will include First Name, Last Name, Email, Password and Confirm Password input elements. Use the following image as a guide to create the form (if needed):



Register

Create your own account. It's free and only takes a minute.

First Name Last Name

Email

Password

Confirm Password

Register

Already have an account? [Sign in](#)

## Form Validation with jQuery

- Login Page:** Using only JavaScript and jQuery, when the user enters a username and password and then clicks the Login button, insert their username between the Contact Us link and the Login/Logout link. Ensure you allow for appropriate spacing between the two other list items (Hint: take a look at the navbar-text class on the bootstrap website for appropriate styling).
- Register page:** Using only JavaScript and jQuery, create a div element with an id of “ErrorMessage”. This div element should be hidden when the user first navigates to the register.html page. This area will be used to display errors if the user enters invalid data in the input fields of the registerForm. When the error clears, this div element should be hidden.
- Register Page.** Using only JavaScript and jQuery, ensure when the user enters their First Name and Last Name that the minimum length that each input element will allow is 2 characters. If the user violates this check, display an error message in the div element with an id of “ErrorMessage”
- Register Page.** Using only JavaScript and jQuery, when the user enters their email address ensure that the minimum length is 8 and that an @ symbol is present. If the user violates this check, display an error message in the div element with an id of “ErrorMessage”.
- Register Page.** Using only JavaScript and jQuery, ensure that when the user selects a password and enters it in both the Password and Confirm password input elements that it is the same string. Also, passwords should be at least 6 characters in length
- Register Page.** Using only JavaScript and jQuery, when the user clicks on the Register button prevent the default form behavior (prevent form submission). (5 Marks: Functionality)
- User Class.** Create a JavaScript Class named User, in the same file (app.js) but above the IIFE that includes firstName, lastName, username, email and password properties.
- Register Page.** Using only JavaScript and jQuery, when the Register button is clicked, create an instance of the User class and display it in the console. Finally, clear the form.

## Simple DOM Manipulation

- a. All the text (body) for your site content above, should be injected into the page using JavaScript only. For this lab, you are permitted to hard code your text in JavaScript string variables
- b. Using JavaScript only change the Products link found in the Navbar above Projects
- c. Using JavaScript only, add another link to the Navbar above, named Human Resources, that sits between About Us and Contact Us. To be clear, you may not hard code this in the HTML file, this must be done using DOM manipulation. Ensure that you also include an appropriate font-icon using font-awesome (similar expectation to the other Navbar links)
- d. Using JavaScript only, add another Navbar at the bottom of the page, that is a “fixed bottom” navbar ([Navbar · Bootstrap v5.1 \(getbootstrap.com\)](#)). Ensure that you include a copyright statement with the current date in the Navbar.

## Internal Documentation

- a. Ensure you include a comment header at the top of your app.js file that indicates: Your Full Name, StudentID and Date Completed
- b. Ensure you include function headers for all of your functions
- c. Ensure your program uses contextual variable names that help make your code human readable
- d. Ensure you include inline comments as required. As a rule, the code should be descriptive but sometimes some information is required, especially before any function you include.

## GitHub Share

- a. Share your files on GitHub. Create an appropriately named **private** repository that you and your partner(s) will use for this lab. Only 1 repository is required
- b. Your repository must include your well-structured code.

## Host your site

- a. Host your site live on a Cloud Provider of your Choice (GitHub pages recommended)
- b. Your site's images should be visible on your Live site
- c. Your CSS Layout should function appropriately on your Live Site
- d. Your Script files should function appropriately on your Live Site

## Video Presentation

- a. Create a Short Video presentation. Your presentation should start with an introduction, where it must include a PowerPoint or Google slide that includes 1 single slide to, that introduces each member of your group, to start your video.
- b. The first (and only) slide of your presentation must include current images of you and your partner(s) (no avatars allowed) that are displayed appropriately on the page. You must also include your Full Names, Student IDs, the Course Code, Course Name, and your Assignment information.
- c. You or your partner(s) will demonstrate your program's functionality. You must show your site working properly on your live site. You will also use your assignment status report as a checklist during your Video Presentation
- d. You or your partner(s) will each share in describing the code in your files that drives the functionality of your program – you will want to do this part well and be clear.
- e. Sound for your video must at an appropriate level so that your voices may be clearly heard, and your screen resolution should be set so that your program's code and console details are clearly visible
- f. Your Short Video should run no more than ~5 minutes

## Submission

1. A zip archive of your project uploaded to DCCConnect
  - a. Please include your video recording (mp4 preferred)
2. A working link to your complete project files on GitHub
3. A working link to your Live Site hosted on a Cloud Provider of your Choice (GitHub pages recommended)
4. Your completed Assignment Status Report
5. Late submissions are deducted -25% per day (max 3 days)
6. Individual (non-group submission) are deducted -15%