

# LAB 2 JQUERY & FORM VALIDATION

**Due:** Week #7 (Friday February 24, 2022) @ 11:59pm.

**Value:** 15%

JQUERY & FORM VALIDATION

Maximum Mark: 100

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

**Evaluation:**

10 Marks: Site Structure

5 Marks: Version Control

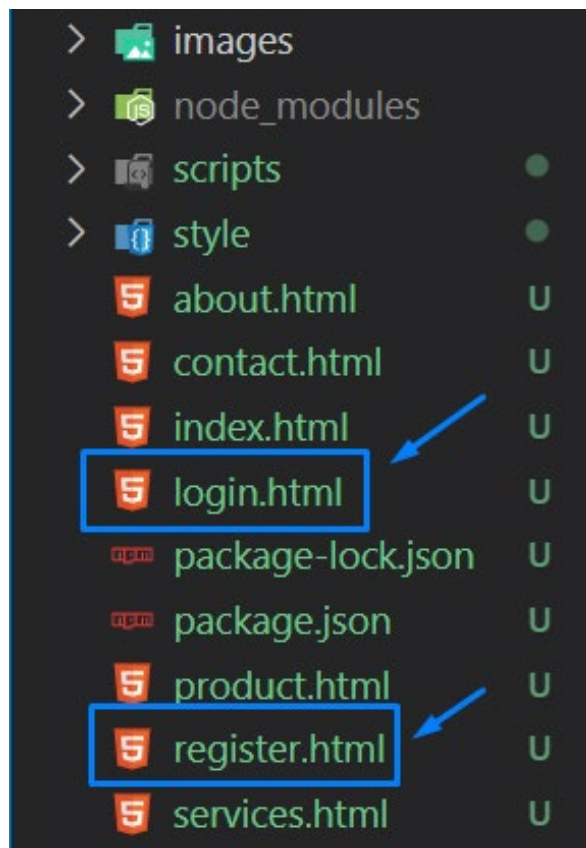
65 Marks: Functionality

10 Marks: Video Demo

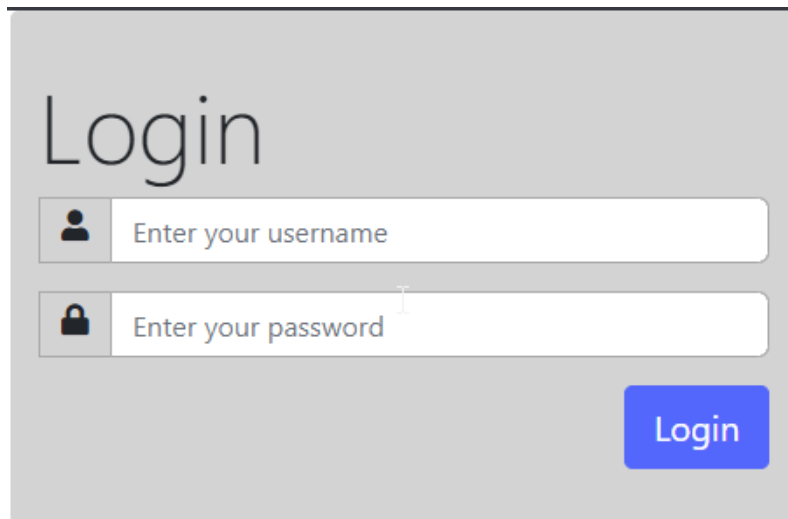
10 Marks: Internal Documentation

**Instructions:**

1. Project Setup (10 Marks Site Structure)
  - 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 (2 Marks)



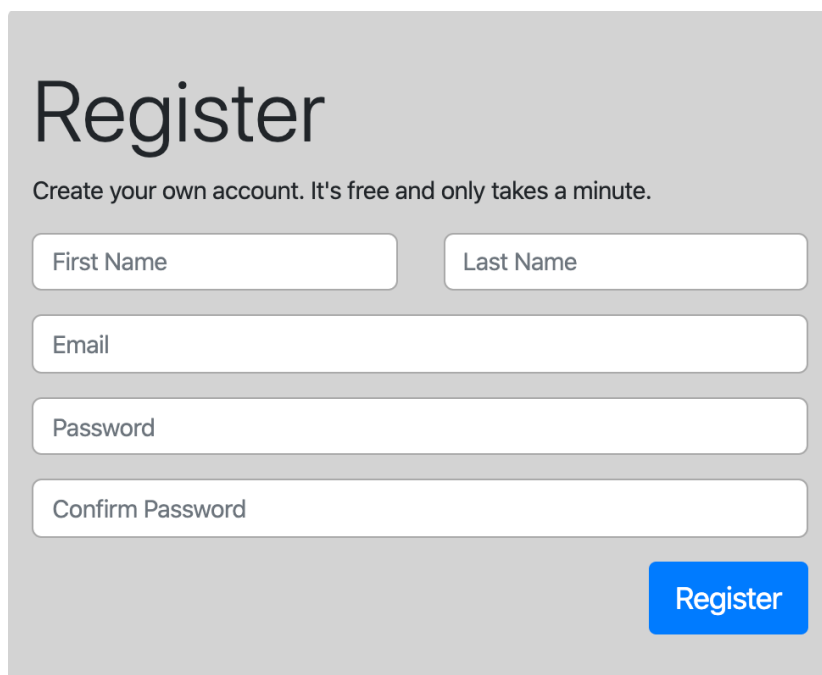
- b. The login.html page must include username and password input elements. Use the following image as a guide to create the form (if needed) :(4 Marks)



A login form with a light gray background. At the top left is the word "Login" in a large, dark gray sans-serif font. Below it are two input fields. The first field has a small icon of a person on the left and the placeholder text "Enter your username". The second field has a small icon of a padlock on the left and the placeholder text "Enter your password". To the right of these fields is a blue button with the word "Login" in white text.

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): (4 Marks)



A register form with a light gray background. At the top left is the word "Register" in a large, dark gray sans-serif font. Below it is the text "Create your own account. It's free and only takes a minute." in a smaller, dark gray font. Below this text are five input fields. The first two are "First Name" and "Last Name", which are side-by-side. Below them is "Email". Below "Email" is "Password". Below "Password" is "Confirm Password". To the right of these fields is a blue button with the word "Register" in white text.

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

## 2. Form Validation with jQuery (65 Marks)

- a. **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) (5 Marks).
- b. **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 (10 Marks: Functionality).
- c. **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" (10 Marks: Functionality).
- d. **Register Page.** Using some combination of HTML5 form controls, 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" (10 Marks: Functionality).
- e. **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 (10 Marks: Functionality).
- f. **Register Page.** Using only JavaScript and jQuery, when the user clicks on the Register button prevent the default form behaviour (which submits the form). (5 Marks: Functionality).
- g. **User Class.** Create a JavaScript Class named User that includes firstName, lastName, username, email and password properties. (5 Marks: Functionality)
- h. **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. (10 Marks: Functionality).

## 3. Include Internal Documentation for your program (5 Marks):

- a. Ensure you include a comment header at the top of your app.js file that indicates: Your Full Name, StudentID and Date Completed (4 Marks).
- b. Ensure you include function headers for all of your functions (2 Mark).
- c. Ensure your program uses contextual variable names that help make your code human-readable (2 Marks).
- 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 (2 Marks)

## Evaluation Criteria

Feature	Description	Marks
Site Structure	Your Project adheres to the site structure described (including Assets, Content and Scripts folders)	10
Functionality	The program's deliverables are all met and the program functions as it should. No errors appear as a result of execution. User Input does not crash the program.	65
Internal Documentation	A comment header is present and includes the name of the student, StudentID, and date completed.	10
Version Control	GitHub commit history demonstrating regular updates.	5
Video Presentation	Your short video must demonstrate your site and describe your code. Your audio must be at an appropriate level and your screen must be clearly seen.	10
Total		100

## SUBMITTING YOUR WORK

Your submission should include:

1. A zip archive of your project uploaded to DC Connect
2. A working link to your complete project files on GitHub
3. An mp4 of your video or a working link to your demo video posted on YouTube or another streaming provider.
4. Your Completed Lab Report.

This assignment is weighted **15%** of your total mark for this course.

Late submissions:

- 25% for 72 hours after due date/time (not incremental, flat rate).

EXTERNAL CODE (E.G. FROM THE INTERNET OR OTHER SOURCES) CAN BE USED FOR STUDENT SUBMISSIONS WITHIN THE FOLLOWING PARAMETERS:

1. The code source (i.e. where you got the code and who wrote it) must be cited in your internal documentation.
2. It encompasses a maximum of 10% of your code (any more will be considered cheating).
3. You must understand any code you use and include documentation (comments) around the code that explains its function.
4. You must get written approval from me via email/verbal with follow-up email