



Programming 1 (PRG152S/PRG100S) Assignment 2 HTML & JAVASCRIPT

Overview

Javascript, as the most popular programming language for web development, has been used by more than 94 percent of web developers. Javascript allows web developers to create interactive and dynamic web sites by implementing client-side scripts. ⁱ A Website consists of at least three elements which are **Content** made possible by **HTML** code, **Layout** made possible by **CSS** and **Functionality** made possible by **Javascript**. You can develop powerful and attractive websites by combining these three elements.

A screenshot of a 'Jobseeker login' form. It features a dark header with the title 'Jobseeker login' and a close button. Below the header, there are two input fields for 'Email ID' and 'Username'. Further down, there are two larger input fields for 'Email ID' (with the placeholder 'Enter your active Email ID') and 'Password' (with the placeholder 'Enter your password'). A 'Forgot Password?' link is located to the right of the password field. A blue 'Login' button is centered below the input fields. At the bottom, there is a link 'Not a member as yet? Register Now' and a small disclaimer: 'In case you are using a public/shared computer, we recommend that you logout to prevent any un-authorized access to your account'.

Requirements

You are required to develop a website using HTML for your content, CSS for your Layout and look and Javascript for your web site functionality.

The website should contain the following:

- Member Login
- Member Registration
- Validation of user input including popup error messages
- Calculations (Additions, multiplication, etc) including results display
- Arrays
- Searching
- Functions

As an example:

Your website may include a page for user login detail. If not a registered user, the user can register and fill in the detail. The users' inputs will be validated to ensure that valid info is supplied.

On either successful login or successful registration, the main webpage will display, where the user can perform operations like searching and other calculations.

Websites types may include:

- Student test scores
- Customer orders
- Product sales
- Weather temperatures
- Voting poles

A screenshot of a 'Student Registration Form'. The title is 'Student Registration Form' with a subtitle 'Fill out the form carefully for registration'. The form includes several input fields: 'Student Name' (split into 'First Name', 'Middle Name', and 'Last Name'), 'Birth Date' (with dropdowns for 'Month', 'Day', and 'Year'), 'Gender' (a dropdown menu), and 'Address' (a single line for 'Street Address').

And any other types where the above features can be applied.

Instructions

WEBSITE CONTENT

- Design the Website with at least 2 -3 pages.
- Include relevant headers, footers and body content
- Content must include relevant text, images, forms and input fields and buttons.

WEBSITE LAYOUT

- For your formatting and layout, you may download and use available CSS templates or create your CSS

WEBSITE FUNCTIONALITY

- Use JavaScript for the functionality of your website
- For array processing, your website must be able to process records. (Do extra reading on how to read from external data files)
- Eg1. When searching for existing users, go through a list of users to find the user you are looking for.
- Eg2. When calculating student pass/fail scores, go through a list of students with their term scores.
- Eg3. When calculating commissions for salespersons over a period of 6 months, go through a list of salespersons with their sales figures.
- Functionality must include, variable declarations, if statements, loops.

ORDER FORM

Please fill in your information and we'll be sending your order in no time.

Name: First Name Last Name

Email: Quantity:

Shipping Address: Street Address
 City Country

Select your products:

- ☐
- ☐
- ☐
- ☐

Due date:

- 30 October 2019

Submission

- Single page document describing what the Website is about - with screenshots
- Your source code (all html documents and javascript files)

The following must be submitted using the upload link provided in BlackBoard:

- Not emailed assignments will be accepted

ⁱ <https://torquemag.io/2018/06/why-millions-of-developers-use-javascript-for-web-application-development/>