**Medical Informatics (BIOM9450)**

**Tutorial 4: Client-Side Form Validation Using JavaScript**

There were many functions and scripts used to complete this tutorial and, in this report, I would be going through the design choices for the JavaScript validation process.

The first part was to validate the email address, and this was done using the code below:

Graphical user interface, text, application

Description automatically generated

As shown from the code snippet, a regex expression is used to check for numbers and letters before and after the “@”, and 2 to 4 characters after the “.”

Next, there is the typing of the password and confirmation of password. The code snippet is as follows:

Graphical user interface

Description automatically generated with low confidence

Text

Description automatically generated with low confidence

As seen from the code snippets, the passwords were again checked using regex to include uppercase letters, lowercase letters and numbers. After that, the whole string was compared with the one typed in the re enter section and accept it if it is correct.

Following that, I have included the First Name and Last Name section which are identical. This is shown in the code snippets below:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Again, names are checked using regex to only contain letters, apostrophes, spaces, and hyphens.

Lastly, there is the checking of the Date of Birth using the code snippet below:

Text

Description automatically generated

This was checked using regex to ensure that the Date of Birth was a valid date that was not too far in the past or in the future. To add on, these two screenshots below show the results when there is an input. The one on the left shows inputs with no errors and the one on the right shows incorrect inputs.

Graphical user interface, application

Description automatically generated Graphical user interface, text, application, email

Description automatically generated

When the forms are accurate, the user can then hit the “Register Now!” button and the system checks if all their inputs are accurate. This is done using the code snippet below:

Text

Description automatically generated

If there are some errors in the form filling in, the following alert will be displayed on screen along with a toolbox showing to fill in a missing detail:

Graphical user interface, application, Word

Description automatically generated

If the details, the First Name, Last Name and Date of Birth, are all “true”, the webpage changes to show the successful registration, as seen below:

Graphical user interface, text, application

Description automatically generated