

## Adam's Project Implementation

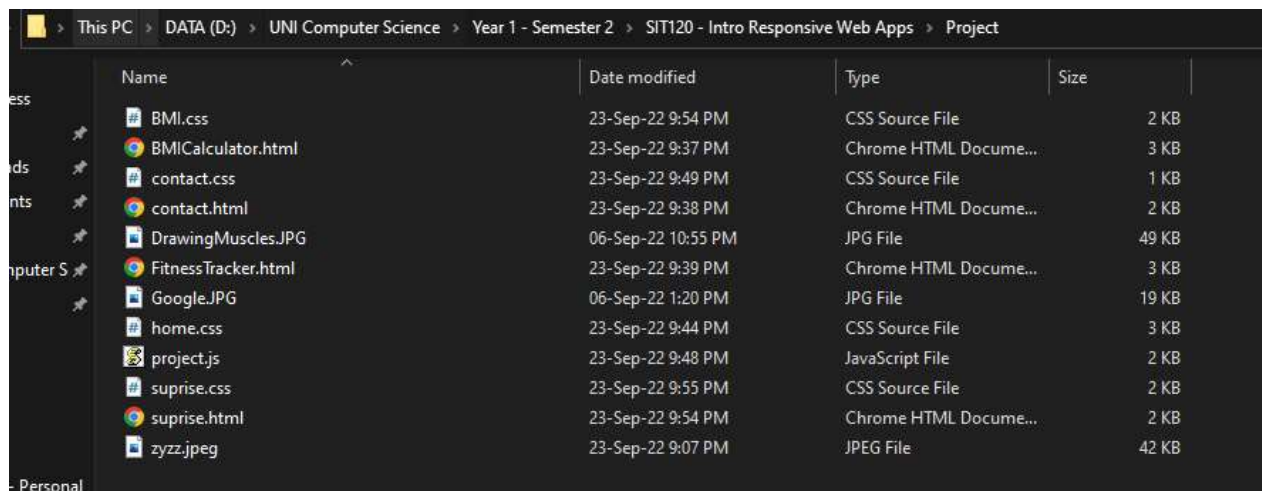
<https://github.com/A-Kabbara/WebDev>

### Summary:

Like I mentioned in my previous assignment my whole purpose of building this website was because I have a passion in fitness and working out/ it's the favorite part of my day and it changed my life for the better. I want everyone to experience what I feel and be fit and healthy as it changes who you are as a person, your more confident, proud and respect yourself.

The reason I built this site was as sort of an accountability partner as that's the thing most people lack when it comes to working out and staying fit. Its why people break their new years resolution.

I built it using HTML, CSS and JavaScript/Vue.js. While using these 3 languages it allowed me to turn my website from an idea into reality. I used HTML to include the text and language bit of the website as well as implementing stuff such as responsive scaling, UTF-8 and linking my CSS Style Sheet file which I included all the design aspect. In my Java Script File, I had Vue components which allowed the site to become interactive for example clicking a button.



The screenshot shows a Windows File Explorer window with the address bar path: This PC > DATA (D:) > UNI Computer Science > Year 1 - Semester 2 > SIT120 - Intro Responsive Web Apps > Project. The main pane displays a list of files and folders with columns for Name, Date modified, Type, and Size.

Name	Date modified	Type	Size
BMI.css	23-Sep-22 9:54 PM	CSS Source File	2 KB
BMICalculator.html	23-Sep-22 9:37 PM	Chrome HTML Docume...	3 KB
contact.css	23-Sep-22 9:49 PM	CSS Source File	1 KB
contact.html	23-Sep-22 9:38 PM	Chrome HTML Docume...	2 KB
DrawingMuscles.JPG	06-Sep-22 10:55 PM	JPG File	49 KB
FitnessTracker.html	23-Sep-22 9:39 PM	Chrome HTML Docume...	3 KB
Google.JPG	06-Sep-22 1:20 PM	JPG File	19 KB
home.css	23-Sep-22 9:44 PM	CSS Source File	3 KB
project.js	23-Sep-22 9:48 PM	JavaScript File	2 KB
surprise.css	23-Sep-22 9:55 PM	CSS Source File	2 KB
surprise.html	23-Sep-22 9:54 PM	Chrome HTML Docume...	2 KB
zyzz.jpeg	23-Sep-22 9:07 PM	JPEG File	42 KB

## Challenges:

Just like every other coding language as you work through your mini tasks/project you're going to encounter some problems and difficulties. A lot of these are going to take time to solve and it may even stress you out trying to figure it out. With Vue there wasn't many resources online, so it was pretty challenging.

When creating my BMI.html page, I was adding in the text and linking the CSS, that's when I decided to incorporate my Vue BMI calculator component into it which takes the users input and output and displays his BMI. Sounds easy on paper, a simple function.

```
20
21 <div id="BMICalculator">
22   <label for="height">Please Enter Height in Meters:</label>
23   <input type="number" v-model="height">
24   <!-- type="number" id="height" --> /*
25   <label for="weight">Please Enter Your Weight in KG:</label>
26   <input type="number" v-model="weight">
27   <!-- -type="number" id="weight" -->
28   <label for="BMI">Your BMI is: {{ BmiCalcFunc }} </label>
29 </div>
```

As you can see code looks fine and good, however this was my output:



Your BMI is: {{ BmiCalcFunc }}

I spent an hour going through the code and couldn't figure out what was wrong. I didn't link it to a separate Java Script file so it couldn't be that. I was stressing and panicking. Then it hit me. Since this was a new html index, I forgot to include Vue in the header of the page.

Simple mistake that cost me 2 hours of my time.

To me that type of instance is the most challenging out of all as its simple and you think you got it, but you can't figure out what's wrong, I've had multipole instances where similar things would happen, whether it was I use NewVue and forgot the space or forgot a comma in my code.

Another big one for me was formatting of HTML, for some reason I couldn't seem to get it, I kept trying and trying and spend countless of hours googling around and discovering things like setting your position to absolute and then using top: 10px , left: 50px. To shift an image to a specific direction.

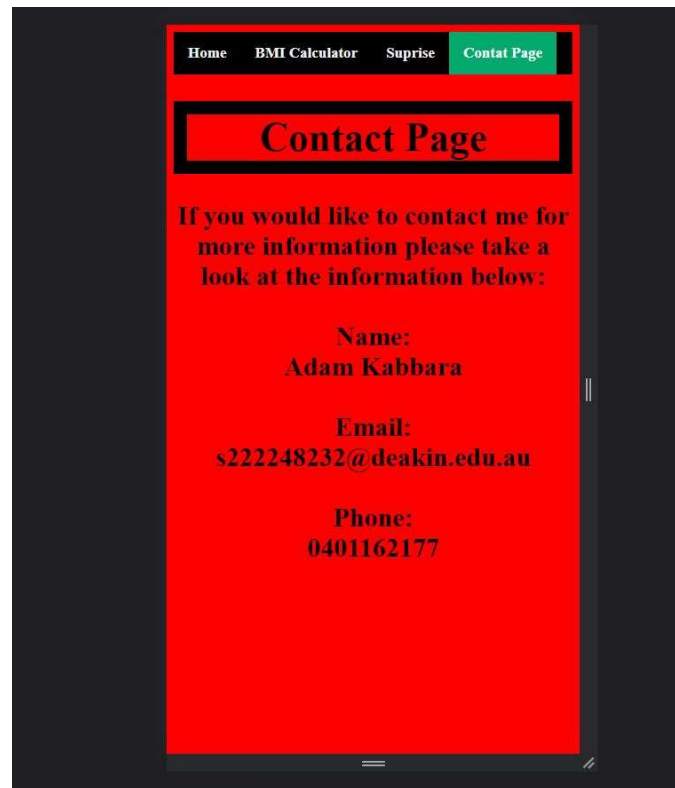
```
img{
  display: block;
  position: absolute;
  top: 80px;
  right: 10px;
  float: right;
  margin-left: auto;
  margin-right: 20px;
  max-width: 100%;
  border: 5px solid #555;
}
```

## Coding Concepts:

The first concept on the top of page would be initializing the scale of the website so that it fits all devices, I use this by including this in the head of the HTML file.

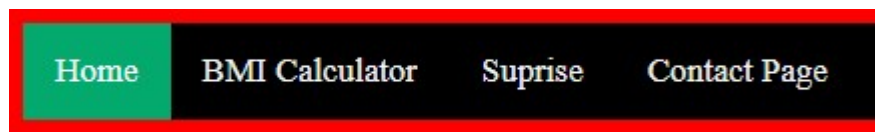
```
<html>
  <html lang = <"en">
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compataible" content "IE=edge" />
    <script src="https://unpkg.com/vue@2.4.4/dist/vue.js"></script>
    <link rel="StyleSheet" href="./home.css"/>
  </head>
  <!-- Head Tag includes intital scale for diffrent devices-->
  <!-- Language UTF 8 , Java Script Vue Srouce, Style Sheet CSS Ref-->
```

This allows the website to be fit to scale in an iPhone, a tablet and even a smart fridge.



### Navigation Bar:

For my website when switching pages, you obviously needed to include a navigation bar, so I decided to incorporate this one. Which allows the user to interact with the different html pages.



### BMI Calculator:

This was my main and favorite one which I spent most time coding, and I enjoyed it the most (besides forgetting to include Vue.JS in the header).

```

28 <div id="BMICalculator">
29   <br>
30   <label for="height">Please Enter Height in CM: </label>
31   <input type="number" style = "height:50px; width:150px; font-size:30px;" placeholder="Height" v-model="height"/>
32   <!-- type="number" id="height" -->
33   <label for="weight">Please Enter Your Weight in KG: </label>
34   <input type="number" style = "height:50px; width:150px; font-size:30px;" placeholder="Weight" v-model="weight"/>
35   <!-- type="number" id="weight" -->
36   <br>
37   <br>
38   <label for="BMI">Your BMI is: {{ BmiCalcFunc }}</label>
39   <!-- BMI calc div including the user to input his height and weight to pass the parameters to the Vue Function-->
40 </div>
41

```

This is the DIV “BMICalculator in my code” it allows the user to input his two values and it will output his BMI. It calls it from the following Vue script:

```

56 <script>
57   var BMICalculator = new Vue ({
58     el: '#BMICalculator',
59     data: {
60       height: null,
61       weight: null,
62     },
63     computed: {
64       BmiCalcFunc: function() {
65         var height = parseInt(this.height) / 100 ;
66         var weight = parseInt(this.weight);
67         var bmi = weight / (height * height);
68         if (bmi < 25 ) {
69           return bmi.toFixed(2) + ": Your BMI is Low ";
70         }
71         else if (bmi > 25 && bmi < 30){
72           return bmi.toFixed(2) + ": Your BMI is Average";
73         }
74         else if(bmi >= 30){
75           return bmi.toFixed(2) + ": Your BMI is High";
76         }
77       }
78     }
79   })
80 </script>

```

In my script I declared the paraments height and weight, used BMI to calculate the BMI of the user then have it go through if and else/elif statements to tell you where you place on the BMI Scale.

Looked like this when it was run:

**BMI Calculator**

Please Enter Height in CM:  Please Enter Your Weight in KG:

**Your BMI is: 30.12: Your BMI is High**

BMI is calculated using your weight and height!  
 BMI is used to estimate your risk of a heart attack, along with your blood pressure and other factors.  
 Please note: This does not apply to people with large amount of muscle mass.  
 Dont Worry, What is nice about knowing your BMI is you can change it if you put in the work and effort! Think of it as a way to keep you accountable.

## Global Components:

I also include global and local components to print out text.

```

3      <p1>
4          <div id="ComponentsWithVue">
5              <br>
6              <br>
7              <component1></component1>
8              <component2></component2>
9              {{ text }}
10         </div>
11         <script src= "../project.js"></script>
12     </p1>
13

```

```

D:\ > D:\Computer Science > Year 1 - Semester 2 > SIT120 - Intro Responsive Web Apps > Project > JS project.js > ...
1  Vue.component('Global', {
2      template: '<div>BMI is calculated using your weight and height!</div>',
3  });
4  var component1 = {
5      template: '<div><global></global>BMI is used to estimate your risk of a heart attack, along with your blood pressure and other factors.</div>',
6  };
7  var component2 = {
8      template: '<div><component1></component1>Please note: This does not apply to people with large amount of muscle mass.</div>',
9  };
10
11  /* My vue global componenet adding text to each componenet */
12
13  var ComponentsWithVue = new Vue({
14      el: '#ComponentsWithVue',
15      data: {
16          text: 'Dont Worry, What is nice about knowing your BMI is you can change it if you put in the work and effort! Think of it as a way to keep you accountable.',
17      },
18      components: {
19          component1,
20          component2,
21      }
22  })

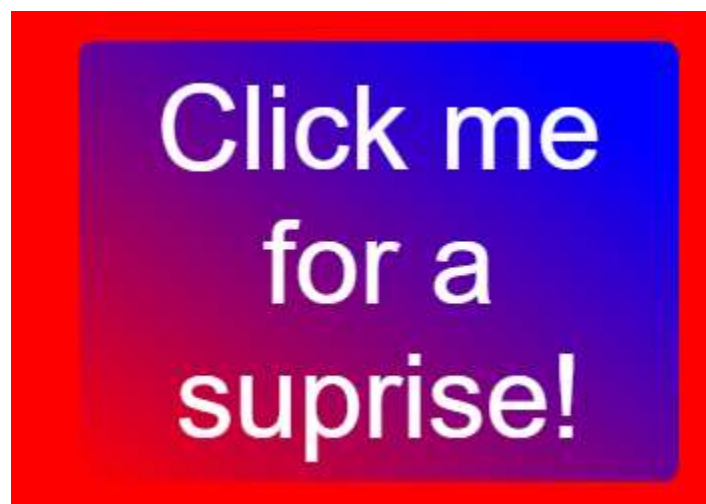
```

## Transition Surprise Button:



I also used a fancy transition button which would use Vue Components to have a phrase appear on the screen using an animation. It would bounce in. It's called Fancy Button because of the CSS Style I had on the button as you can see:

```
47
48 <div id="Creatine">
49   <button style = "color: cyan;
50     height: 220px;
51     width: 300px;
52     font-size: 58px;
53     color: #fff;
54     background: linear-gradient(215deg, blue 15%, red);
55     border: none;
56     padding: 5px 10px;
57     margin: 5px;
58     border-radius: 8px;
59     cursor: pointer; "
60     v-on:click="show =! show">
61     Click me for a suprise!
62   </button>
63
64   <transition name=" bounce">
65     <p v-if="show">Did You Take Your Creatine Today?</p>
66   </transition>
67   <script src= "../project.js"></script>
68 </div>
69
```



I didn't show the text that comes after pressing the button as I didn't want to ruin the surprise.

## Username and Password:

```
<div id = "app">
  <p>User Name:</p>
  <input
    v-model="name"
    type = "text"
    placeholder="Please Enter Your Username"
  />
  <p>Password:</p>
  <input type="password" placeholder="Please Enter Your Password" />
  <!-- Body Tag Vue App containing user login and password-->
</div>
</body>
```

Here I have a Vue app that uses inputs and to take in the input of the users Name and Password. I also added a placeholder to make it look fancier.

## Check Box:

I included a Vue app to allow the user to tick if he trained or did not train today, this would like look like a check box on the screen.

```
<script>
  var TickBox = new Vue({
    el: '#TickBox',
    data: {
      message: "Hello Vue!",
      checked: "Tick if yes",
    },
  });
</script>
<!-- Vue Tick Box-->
</html>
```