

# Web Design and Development 4COSC011W

## Report

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Student Role: 4

Link(s) to WebSite

URL: <https://w1868307.users.ecs.westminster.ac.uk/>

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## 1. Introduction

Section guidelines:

- a) List of the team members, allocation of tasks (student 1 to 4), and topic of the website.

### **Oshini Fonseka (student 4)**

- Sitemap
- Gallery

### **Pamudu Nadiranga (student 1)**

- Shopping cart
- Invoice

### **Lojan Jayamukar (student 2)**

- Query form

- Main page

Oneth Dias (student 3)

- Quiz
- Student details

b) Include the summary table of your contributions to the group meetings.

Group Coursework Meetings		
1	Date & Time:	19 March 10.30 AM
	Objective:	Inaugurating preparation for the web page
	Attended:	Yes
	Your Contribution:	Elaborating coursework specification
2	Date & Time:	21 March 5.30 PM
	Objective:	Establishing UOW FTP server
	Attended:	Yes
	Your Contribution:	Sharing the UOW server links with each other
3	Date & Time:	22 March 2.30 PM
	Objective:	Initiating project with main page
	Attended:	Yes
	Your Contribution:	Starting to create the sitemap
4	Date & Time:	24 March 7.30 PM
	Objective:	Developing with individual pages
	Attended:	Yes
	Your Contribution:	Developing the main page and other pages
5	Date & Time:	25 March 11.00 AM
	Objective:	Developing with individual pages
	Attended:	Yes
	Your Contribution:	Developing the sitemap and the gallery page
6	Date & Time:	27 March 12.00 AM

	<b>Objective:</b>	Finalizing with individual pages
	<b>Attended:</b>	Yes
	<b>Your Contribution:</b>	Completing with our own individual pages

## 2. Technical Discussion

This website is about basic music instruments. Student role 4 was allocated mainly two tasks. That are the diagram using SVG and the thumbnail images with a description in a gallery page. The webpages were created using html and further developed using CSS and JavaScript.

### 2.1 Diagram (SVG)

#### 2.1.1 HTML

This page contains the sitemap of this website. It is developed using SVG. Within SVG tags the path tag and the circle tags are added to create the sitemap. And the main topic "Sitemap" is written inside a h1 tag. Below screen shot of the code shows how the path tag has been used for the SVG map.

```
<!--svg path to draw the sitemap-->
<path d="M 100 100, L 800 800, M 100 100, H 300 , M 350 350 H 550,
M 570 570, H 680, M 800 800, H 890, M 250 550, H 550"/>
```

Figure 2.1.1.1- The code snippet of the path tag.

The circles in the sitemap represent different pages of the website. Some of the circles are clickable and when it is clicked it takes the user to the specific page of the website. This action is created using anchor tags <a>, and inside it the certain link to the page is added using the "href" attribute. In the below screen shot it shows one of the circles with the anchor tag.

```
35
36 <a xlink:title="Gallery" href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/gallerypage_20210855.html" >
37 <text x="740" y="100" >Gallery</text>
38 <circle cx="800" cy="100" r="90" /></a>
39
40
```

Figure 2.1.1.2- Code snippet of a anchor tag used for the gallery page.

### 2.1.2 CSS

An external style sheet is used to style this html code. And the link to the external style sheet is added at the top of the code inside the head tags using the link tag. The screen shot is shown below.

```

7      </title>
8
9      <link rel="stylesheet" href="stylesheet1.css">
10     </head>
11
12     <body>

```

Figure 2.1.2.1- Code snippet of the external style sheet added to the code.

The body of this web page is styled using a background image and the content of the page has a padding of 30 pixels.

```

1  body{
2      background-image: url('https://wallpaperaccess.com/full/1470296.jpg');
3      background-attachment: fixed;
4      background-repeat: no-repeat;
5      background-size: cover;
6      padding: 30px;
7  }

```

Figure 2.1.2.2- The styles used for the body of the page.

The topic and the paragraph in the webpage are styled as below.

```

8  h1{
9      font-family: monospace;
10     font-size: 70px;
11     text-align: center;
12     color: ■rgb(238, 203, 163);
13 }
14 p{
15     font-family: monospace;
16     font-size: 25px;
17     text-align: right;
18     color: ■rgb(238, 203, 163);
19 }

```

Figure 2.1.2.3- Styles used for the headline and paragraph tag.

When styling the SVG map using a class inside the tag makes it easier to apply the styles separately to the different parts of the map. Each tag that needs to be styled is mentioned after the class name that is, ".svgmap". The styles used are in the code snippet below.

```

20 .svgmap circle{
21     opacity: 0.6;
22     stroke: ■ white;
23     fill: ■ white;
24     stroke-width: 8px;
25 }
26 .svgmap path{
27     opacity: 0.6;
28     stroke: ■ white;
29     stroke-width: 8px;
30 }
31 .svgmap a circle{
32     fill: transparent;
33     stroke: ■ rgb(238, 203, 163);
34 }
35 .svgmap a circle:hover{
36     fill: ■ white;
37     stroke: ■ white;
38 }
39 .svgmap a text{
40     font-size: 30px;
41     font-family: monospace;
42     fill: ■ rgb(238, 203, 163);
43 }
44 .editor a{

```

Figure 2.1.2.4- Screen shot of the styles added to the SVG map.

In the above screen shot circle:hover part is where the non-colored clickable circles in the sitemap changes color when hovered over it. Since the circle tag is inside the SVG tag it is mentioned after the class name “.svgmap”.

The link to the editor page is styled with an underline and a color. Shown below is the screen shot of the code snippet.

```

44 45 .editor a{
45     text-decoration: underline;
46     color: ■ white;
47     font-size: 20px;
48     font-family: monospace;
49     padding: 1px;
50 }
51

```

Figure 2.1.2.5- Styles added to the editor page link at the bottom of the page.

## 2.2 Thumbnail Images

This is the gallery page of this website. It contains two drop down menus, one to change the background color and the other one to change font color of the page, and five thumbnail images that gives the large picture of the thumbnail image when hovered over.

### 2.2.1 HTML

The two drop down menus are created using the form tag. Each select tag inside the form tag has name, onchange and id attributes. The value inside the option tag is the actual color that is visible on screen when one of the options are clicked. And the name of the color can be added inside the option tags. Shown below are the screen shots of code snippets that contain the code for the two drop-down menus.

```

43
44      <!--list of options for the background color-->
45      <h3>Choose a background-color for your page;</h3>
46      <form>
47          <select name="colors" onchange="color()" id="colors">
48              <option value="white">White</option>
49              <option value="LightGray">Light gray</option>
50              <option value="LightBlue">Light blue</option>
51              <option value="Lavender">Lavender</option>
52              <option value="LightYellow">Light yellow</option>
53              <option value="Beige">Beige</option>
54              <option value="LIghtPink">Light pink</option>
55              <option value="Aquamarine">Aquamarine</option>
56              <option value="LightSeaGreen">Light sea green</option>
57              <option value="LightGreen">Light green</option>
58          </select>
59      </form>
60
61      <!--list of options for the font color-->
62      <h3>Choose a font color for your page;</h3>
63      <form>
64          <select name="colors" onchange="colour()" id="fontcolors">
65              <option value="Black">Black</option>
66              <option value="DarkBlue">Blue</option>
67              <option value="DarkGreen">Green</option>
68              <option value="DarkOliveGreen">Olive green</option>
69              <option value="DarkRed">Red</option>
70              <option value="DarkSlateGray">Gray</option>
71              <option value="Purple">Purple</option>
72              <option value="SaddleBrown">Brown</option>
73              <option value="Salmon">Pink</option>
74              <option value="DarkCyan">Cyan</option>
75          </select>
76      </form>
77
78
79
80

```

Figure 2.2.1.1- Code snippet for the drop-down menus.

Shown below is the code snippet of thumbnail images added to the page. The “mouseover” function is used to show the larger image of the thumbnail image.

```

84
85      
87      <div class="desc">Piano is a large keyboard musical instrument with a wooden
88      case enclosing a soundboard and metal strings,
89      which are struck by hammers when the keys are depressed. </div>
90
91

```

Figure 2.2.1.2 – One of the thumbnails added to the code.

### 2.2.2 CSS

The body and the headlines of this page are styled as below using font styling attributes and alignments.

```
1  body{
2      padding:30px;
3  }
4  h2{
5      font-family: monospace;
6      text-align: center;
7      font-size:70px;
8  }
9  .logo {
10     width: 60px;
11     height: 60px;
12     padding: 1px;
13     border: none;
14 }
15 h3{
16     font-family: monospace;
17     text-align: right;
18     font-size:20px;
19     background-color: white;
20     padding: 9px;
21 }
22 form{
23     text-align: right;
24 }
```

Figure 2.2.2.1- Styles added to the gallery page background.

To separate the drop-down menus from the main topic, the form is right aligned using the text-align attribute.



```

25  div{
26      display: flex;
27      justify-content:center;
28      text-align:center;
29      text-decoration: none;
30  }
31  div .desc{
32      font-family: monospace;
33      font-size: 10px;
34      text-align: left;
35  }
36  img{
37      border: 4px solid ;
38      border-radius: 10px;
39      border-color: white;
40      width: 200px;
41      height: 200px;
42  }

```

Figure 2.2.2.2 – Styles added to the thumbnail images.

### 2.2.3 JavaScript

JavaScript is used inside this page to change the font and the background color, and also for the mouse over event.

```

9      <script>
10
11          var change;
12          function color(){
13              var color = document.getElementById("colors").value;
14              document.bgColor= color;
15          }
16
17          var change;
18          function colour(){
19              var color = document.getElementById("fontcolors").value;
20              document.fgColor=color;
21          }
22

```

Figure 2.2.3.1- Code snippet of JavaScript methods used in this code.

The “getElementById” method is used to call the id that is mentioned inside select tag in the html code. And bgColor and fgColor functions are used for changing the color on the screen when the user selects an option from the drop-down menu.

Functions used for the mouseover effect on the thumbnail images are shown below.

```

22
23     function bigImg(x) {
24         x.style.height = "600px";
25         x.style.width = "600px";
26     }
27
28     function normalImg(x) {
29         x.style.height = "200px";
30         x.style.width = "200px";
31     }
32
33
34     </script>
35

```

Figure 2.2.3.2 – code snippet of the java script used on thumbnails.

## 2.3 Editor page

Editor page contains the editor information and tasks that are completed by the editor. And the link to the editor page is added at the bottom of every web page created by student 4(Oshini Fonseka).

```

82     <br>
83     <div class="editor" id="myeditor">
84         <a href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/editorpage_20210855.html">Edited by Oshini Fonseka</a>
85     </div>
86
87     </body>
88 </html>

```

Figure 2.3.1- Editor page link added at the bottom of the sitemap web page.

```

120
121     <div class="editor" id="myeditor">
122         <a href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/editorpage_20210855.html">Edited by Oshini Fonseka</a>
123     </div>
124
125     </body>
126 </html>

```

Figure 2.3.2- Editor page link added at the bottom of the gallery page.

Shown below are the screen shots of the webpages containing editor page link at the bottom.



Figure 2.3.3- Screen shot of the bottom of the sitemap page.

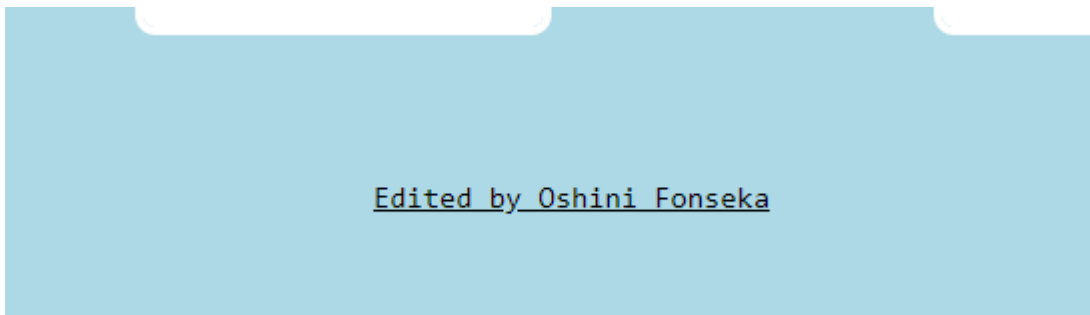


Figure 2.3.4- Screen shot of the bottom of the gallery page.

## 2.4 Title logo

Each page has a title logo on the top left corner of the page.

```
13 <header>
14 
15 <h1>Sitemap of Strings N' Notes</h1>
16 </header>
```

code snippet in the sitemap page.

Figure 2.4.1-

```

39
40     
41     <h2> Basic Musical Instruments</h2>
42

```

Figure 2.4.2- code snippet in the gallery page.

## 2.5 Additional content page

The additional content page contains description about the subject chosen. The description about the piano and the code is shown below.

```

69     <div id="pi" class="piano">
70         <h1 id="piano-head"> The Piano</h1>
71         <div class="topnav" id="myTopnav">
72             <nav>
73                 <a href="#intro">Introduction</a>
74                 <a href="#history">History</a>
75                 <a href="#types">Types of pianos</a>
76             </nav>
77         </div>
78         <br><br>
79         
80
81         <h2 class="h2-head" id="intro">Introduction</h2>
82         <dl>
83
84             <dt>What is a piano?</dt>
85             <dd>Piano, also called pianoforte, French piano or pianoforte,
86                 German Klavier, a <b><em>keyboard musical instrument</em></b> having wire
87                 strings that sound when struck by felt-covered hammers operated
88                 from a keyboard.</dd><br>
89
90             <dt>How many keys do a piano have?</dt>
91             <dd>The standard modern piano contains 88 keys and
92                 has a compass of seven full octaves plus a few keys.</dd><br>
93
94             <dt>Who invented the piano and when?</dt>
95             <dd>Bartolomeo Cristofori is often credited with inventing
96                 the piano about 1709, though this has been disputed.
97                 Cristofori's piano was not the first instrument using
98                 keyboard striking action; examples of the piano principle
99                 existed as early as about 1440. However, the modern piano
100                 design stems from Cristofori's creation.</dd><br>
101
102             <dt>Who are some of the greatest pianists?</dt>
103             <dd>There have been many great pianists over time
104                 with a variety of styles. This list includes but is
105                 not limited to Wolfgang Amadeus Mozart, Ludwig van Beethoven,
106                 Frédéric Chopin, Myra Hess, and Clara Schumann. One of the
107                 best-known pianists of the early 21st century is Mitsuko
108                 Uchida.</dd><br>
109
110         </dl><br><br><br>
111
112     </div>

```

```

113 <hr>
114 <h2 class="h2-head" id="history">History of the piano</h2>
115 <p class="para">The piano was founded on earlier technological
116 innovations in keyboard instruments. Pipe organs have
117 been used since antiquity, and as such, the development
118 of pipe organs enabled instrument builders to learn about
119 creating keyboard mechanisms for sounding pitches.
120 The first string instruments with struck strings were the
121 hammered dulcimers,[6] which were used since the Middle
122 Ages in Europe. During the Middle Ages, there were several
123 attempts at creating stringed keyboard instruments with
124 struck strings.</p><br>
125 <br><br><br>
126
127 <hr>
128
129 <h2 class="h2-head" id="types">Types of pianos</h2>
130 <ol>
131 <li>Grand pianos.</li>
132 <li>Upright Pianos.</li>
133 <li>Digital pianos.</li>
134 </ol>
135 <br>
136 </div>
137
138 <div id="dum" class="drum">
139 <div class="top">
140 <h1 id = "head">DRUMS</h1>
141 <a href="main_page.html"> Return to home </a>
142 </div>

```

Figure 2.5.1 – Code snippets of the additional page.

## Webpage Validation Statement

Below 3 web pages are validated without errors. The screen shots of the validation results are shown in the appendix C.

- The sitemap
- The gallery page web page.
- Editor page web page.

## 3 Janet

This website is created considering Janet regulations. And it is safe from breaches of confidentiality, loss of integrity, damage of reputation and legal liability.

## References

- <https://www.w3schools.com/html/>
- <https://www.w3schools.com/css/>
- <https://www.w3schools.com/js/>
- Lecture notes.

## Appendices

### Appendix A: Code

#### 1. sitemap\_20210855.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>
      Sitemap for your music website
    </title>

    <link rel="stylesheet" href="stylesheet1.css">
  </head>

  <body>
    <header>
      
      <h1>Sitemap of Strings N' Notes</h1>
    </header>
    <p>Welcome to the sitemap! </p>
    <p>Click on where you want to visit.</p>
    <br>
    <svg class="svgmap" id="mysvg" height="1000" width="2000" >

      <!--svg path to draw the sitemap-->
      <path d="M 100 100, L 800 800, M 100 100, H 300 , M 350 350 H
550,
      M 570 570, H 680, M 800 800, H 890, M 250 550, H 550"/>

      <a xlink:title="Main page"
href="https://w1868300.users.ecs.westminster.ac.uk/WebDev/public_html/main_pag
e.html" >
        <text x="80" y="550" >Main page</text>
        <circle cx="140" cy="550" r="110" /></a>

        <circle cx="400" cy="100" r="100" />

        <a xlink:title="Shopping cart"
href="https://w1870107.users.ecs.westminster.ac.uk/public_html/CW/Main_code.ht
ml" >
          <text x="495" y="110" >Shopping cart</text>
          <circle cx="600" cy="110" r="110" /></a>
```

```

        <a xlink:title="Gallery"
href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/gallerypage_20210855
.html" >
            <text x="740" y="100" >Gallery</text>
            <circle cx="800" cy="100" r="90" /></a>

        <a xlink:title="Query Form"
href="https://w1868300.users.ecs.westminster.ac.uk/WebDev/public_html/query.ht
ml" >
            <text x="560" y="350" >Query form</text>
            <circle cx="650" cy="350" r="100" /></a>

        <a
xlink:title="Invoice" href="https://w1870107.users.ecs.westminster.ac.uk/publ
ic_html/CW/Invoice.html" >
            <text x="800" y="320" >Invoice</text>
            <circle cx="850" cy="320" r="120" /></a>

        <a xlink:title="Quiz"
href="https://w1870106.users.ecs.westminster.ac.uk/public_html/webDev/quiz.htm
l" >
            <text x="1000" y="350" >Quiz</text>
            <circle cx="1040" cy="350" r="80" /></a>

        <a xlink:title="Additionnal page"
href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/additional_contentpg
.html" >
            <text x="700" y="570" >Instruments</text>
            <circle cx="800" cy="570" r="115" /></a>

            <circle cx="1000" cy="570" r="80" />

        <a xlink:title="Student
details" href="https://w1870106.users.ecs.westminster.ac.uk/public_html/webDe
v/student-details.html" >
            <text x="1090" y="555" >Student details</text>
            <circle cx="1200" cy="555" r="120" /></a>

        <a xlink:title="Student
1" href="https://w1870107.users.ecs.westminster.ac.uk/public_html/CW/page_edi
tor.html" >
            <text x="940" y="800" >Editor 1</text>
            <circle cx="1000" cy="800" r="110" /></a>

        <a xlink:title="Student
2" href="https://w1868300.users.ecs.westminster.ac.uk/WebDev/public_html/page
_editor.html" >

```



```
<text x="1145" y="765" >Editor 2</text>
    <circle cx="1200" cy="765" r="95"/></a>

    <a xlink:title="Student
3" href="https://w1870106.users.ecs.westminster.ac.uk/public_html/webDev/page
-editor.html" >
    <text x="1375" y="800" >Editor 3</text>
    <circle cx="1430" cy="800" r="140"/></a>

    <a xlink:title="Student
4" href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/editorpage_20210
855.html" >
    <text x="1600" y="770" >Editor 4</text>
    <circle cx="1650" cy="770" r="100"/>    </a>

</svg>
<br>
<div class="editor" id="myeditor">
    <a
href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/editorpage_20210855.
html">Edited by Oshini Fonseka</a>
    </div>

</body>
</html>
```

## 2. stylesheet1.css

```
body{
    background-image:
url('https://wallpaperaccess.com/full/1470296.jpg');
    background-attachment:fixed;
    background-repeat: no-repeat;
    background-size:cover;
    padding:30px;
}
h1{
    font-family: monospace;
    font-size: 70px;
    text-align: center;
    color: rgb(238, 203, 163);
}
p{
    font-family: monospace;
    font-size: 25px;
    text-align: right;
    color: rgb(238, 203, 163);
}
.svgmap circle{
    opacity: 0.6;
    stroke:white;
    fill: white;
    stroke-width: 8px;
}
.svgmap path{
    opacity: 0.6;
    stroke: white;
    stroke-width: 8px;
}
.svgmap a circle{
    fill: transparent;
    stroke: rgb(238, 203, 163);
}
.svgmap a circle:hover{
    fill: white;
    stroke: white;
}
.svgmap a text{
    font-size: 30px;
    font-family: monospace;
    fill: rgb(238, 203, 163);
}
.editor a{
    text-decoration: underline;
    color: white;
```

```
font-size: 20px;
font-family: monospace;
padding: 1px;
}
```

### 3. gallerypage\_20210855.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Welcome to the gallery</title>

    <link rel="stylesheet" href="stylesheet2.css">

    <script type="text/javascript">

      var change;
      function color(){
        var color = document.getElementById("colors").value;
        document.bgColor= color;
      }

      var change;
      function colour(){
        var color = document.getElementById("fontcolors").value;
        document.fgColor=color;
      }

      function bigImg(x) {
        x.style.height = "600px";
        x.style.width = "600px";
      }

      function normalImg(x) {
        x.style.height = "200px";
        x.style.width = "200px";
      }

    </script>

  </head>

  <body>
    <span class="logo" id="mylogo">
```

```

        
        <h2> Basic Musical Instruments</h2>
    </span>

    <!--list of options for the background color-->
    <h3>Choose a background-color for your page;</h3>
    <form>
        <select name="colors" onchange="color()" id="colors">
            <option value="white">White</option>
            <option value="LightGray">Light gray</option>
            <option value="LightBlue">Light blue</option>
            <option value="Lavender">Lavender</option>
            <option value="LightYellow">Light yellow</option>
            <option value="Beige">Beige</option>
            <option value="LIghtPink">Light pink</option>
            <option value="Aquamarine">Aquamarine</option>
            <option value="LightSeaGreen">Light sea green</option>
            <option value="LightGreen">Light green</option>

        </select>
    </form>

    <!--list of options for the font color-->
    <h3>Choose a font color for your page;</h3>
    <form>
        <select name="colors" onchange="colour()" id="fontcolors">
            <option value="Black">Black</option>
            <option value="DarkBlue">Blue</option>
            <option value="DarkGreen">Green</option>
            <option value="DarkOliveGreen">Olive green</option>
            <option value="DarkRed">Red</option>
            <option value="DarkSlateGray">Gray</option>
            <option value="Purple">Purple</option>
            <option value="SaddleBrown">Brown</option>
            <option value="Salmon">Pink</option>
            <option value="DarkCyan">Cyan</option>

        </select>
    </form>

    <!--Thumbnail images inside the gallery page-->
    <div class="mythumbnails" id="thumbnails">

```

```

        <div class="desc">Piano is a large keyboard musical instrument
with a wooden
        case enclosing a soundboard and metal strings,
        which are struck by hammers when the keys are depressed. </div>

        
        <div class="desc">Drumset is a set of drums, cymbals, and other
percussion
        instruments, used with drumsticks in jazz and popular music.</div>

        
        <div class="desc">Guitar is a stringed musical instrument, with a
strings,
        fretted fingerboard, typically incurved sides, and six or twelve
        played by plucking or strumming with the fingers or a plectrum.
</div>

        
        <div class="desc">Trumpet is a brass musical instrument with a
has
        flared bell and a bright, penetrating tone. The modern instrument
        the tubing looped to form a straight-sided coil, with three
valves.</div>

        
        <div class="desc">Violin is a brass musical instrument with a
flared bell and a bright,
        penetrating tone. The modern instrument has the tubing
        looped to form a straight-sided coil, with three valves.</div>

        </div>
        <br><br><br><br>

        <div class="editor" id="myeditor">
        <a
href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/editorpage_20210855.
html">Edited by Oshini Fonseka</a>
        </div>

</body>

```

&lt;/html&gt;

#### 4. stylesheet2.css

```
body{
  padding:30px;
}
h2{
  font-family: monospace;
  text-align: center;
  font-size:70px;
}
.logo img{
  width: 60px;
  height: 60px;
  padding: 1px;
  border: none;
}
h3{
  font-family: monospace;
  text-align: right;
  font-size:20px;
  background-color:white;
  padding: 9px;
}
form{
  text-align: right;
}

div {
  display: flex;
  justify-content:center;
  text-align:center;
  text-decoration: none;
}

div .desc{
  font-family: monospace;
  font-size: 10px;
  text-align: left;
}
img{
  border: 4px solid ;
  border-radius: 10px;
  border-color:white;
  width: 200px;
  height: 200px;
}
.editor a{
```

```

text-align: center;
text-decoration: underline;
color: black;
font-size: 15px;
font-family: monospace;
}

```

## 5. editorpage\_20210855.html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title>The editor page</title>
    <link rel="stylesheet" href="stylesheet4.css">
  </head>
  <body>
    <h2>Student role - 4</h2>
    <ul>
      <li>Name: Oshini Fonseka</li>
      <li>UoW ID: w1868307</li>
      <li>IIT ID:20210855</li>
    </ul>
    <br>
    <hr>
    <h3>Completed tasks:-</h3>
    <ul>
      <li>Sitemap using SVG</li>
      <li>Gallery page with thumbnail images</li>
      <li>Additional page containing anchor tags(description about
the piano)</li>
      <li>Applying a background image to the main page</li>
      <li>Adding a title logo at the top of each page</li>
      <li>Cretaing this editor page containing editor
information</li>
    </ul>
  </body>
</html>

```

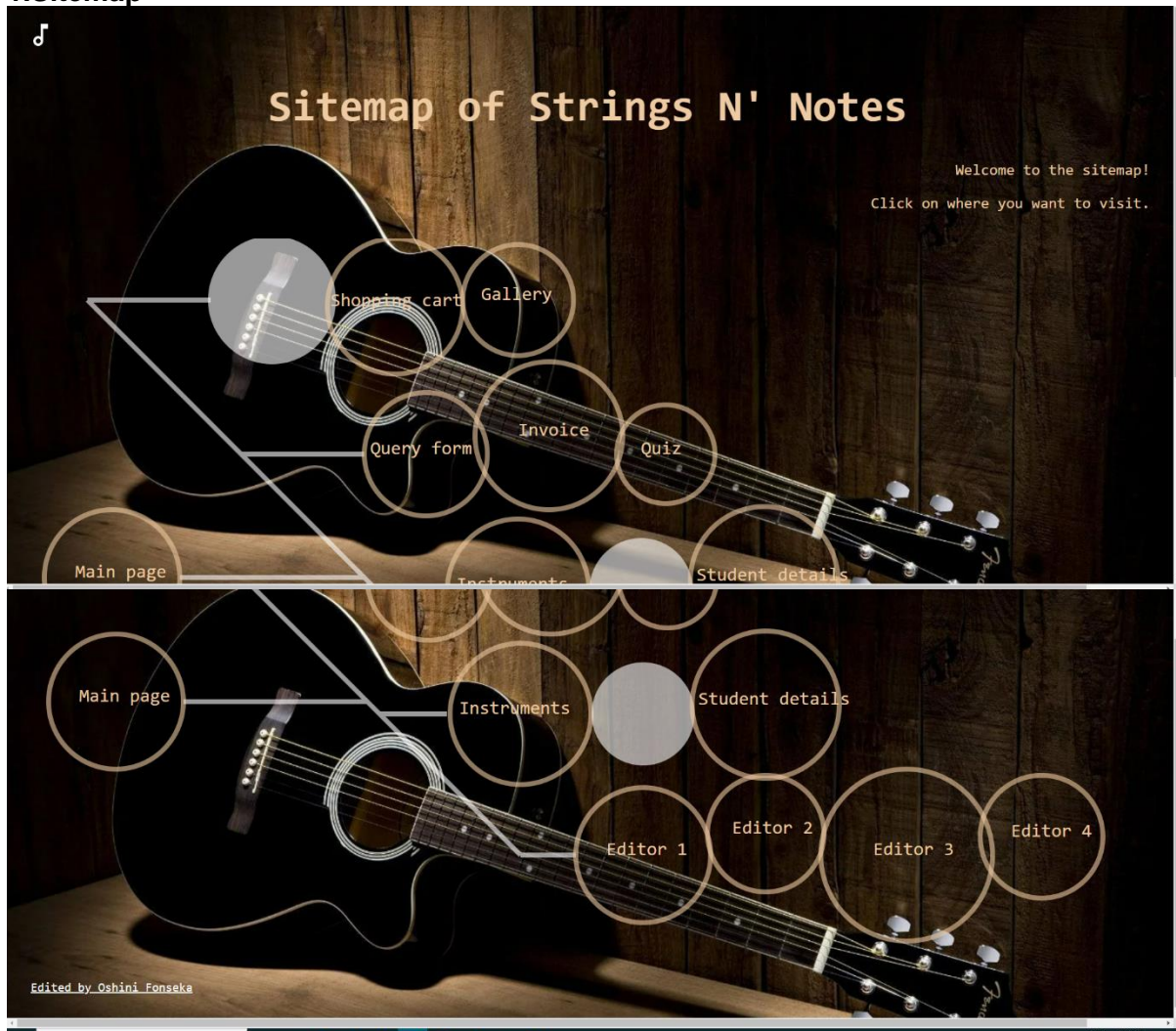
## 6. stylesheet4.css

```
body{
  background-color: antiquewhite;
  padding: 40px;
}
h2{
  text-align: center;
  text-decoration: none;
  font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande',
'Lucida Sans', Arial, sans-serif;
  font-size: 50px;
}
h3{
  text-align: center;
  font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande',
'Lucida Sans', Arial, sans-serif;
  font-size: 30px;
}
ul,ol{
  font-size: 25px;
  text-align: center;
  list-style-type: none;
  font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande',
'Lucida Sans', Arial, sans-serif;
}
```

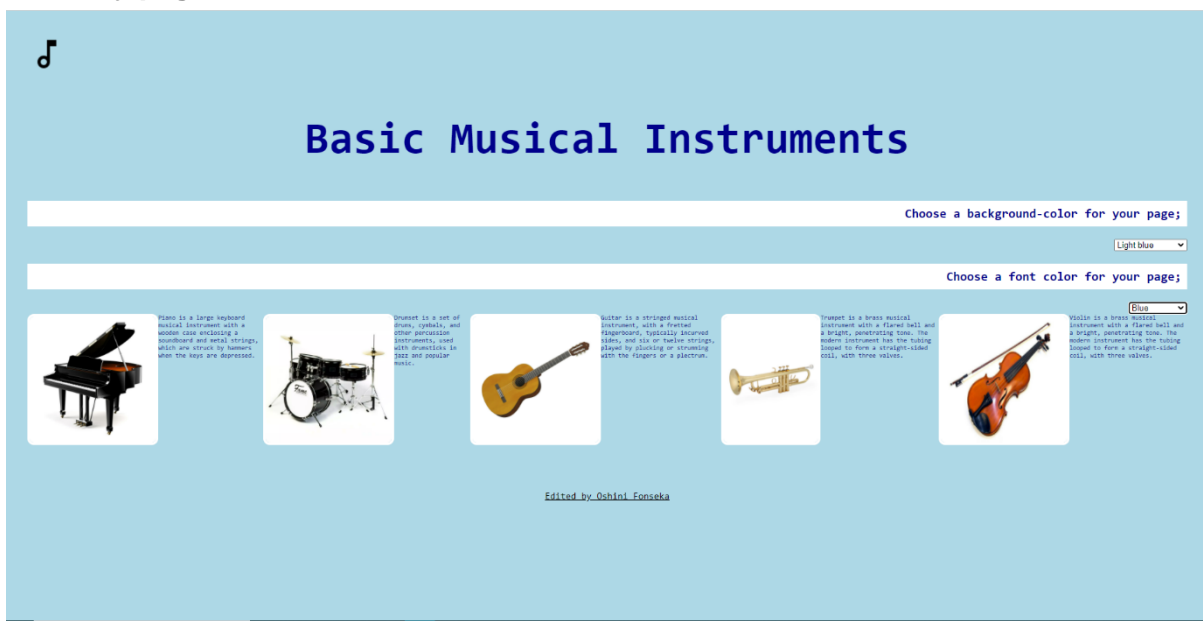


## Appendix B: Screenshots

### 1.Sitemap



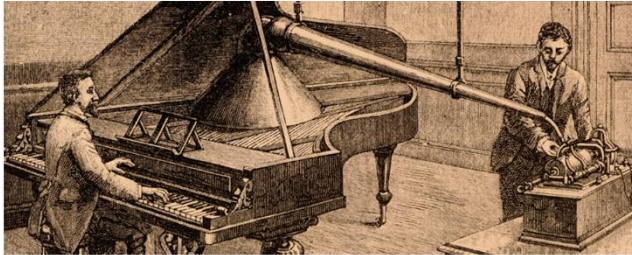
### 2.Gallery page



### 3. Additional page

#### The Piano

Introduction History Types of pianos



#### Introduction

What is a piano?

Piano, also called pianoforte, French piano or pianoforte, German Klavier, a *keyboard musical instrument* having wire strings that sound when struck by felt-covered hammers operated from a keyboard.

How many keys do a piano have?

The standard modern piano contains 88 keys and has a compass of seven full octaves plus a few keys.

Who invented the piano and when?

Bartolomeo Cristofori is often credited with inventing the piano about 1709, though this has been disputed. Cristofori's piano was not the first instrument using keyboard striking action; examples of the piano principle existed as early as about 1440. However, the modern piano design stems from Cristofori's creation.

Who are some of the greatest pianists?

There have been many great pianists over time with a variety of styles. This list includes but is not limited to Wolfgang Amadeus Mozart, Ludwig van Beethoven, Frédéric Chopin, Myra Hess, and Clara Schumann. One of the best-known pianists of the early 21st century is Mitsuko Uchida.

#### History of the piano

The piano was founded on earlier technological innovations in keyboard instruments. Pipe organs have been used since antiquity, and as such, the development of pipe organs enabled instrument builders to learn about creating keyboard mechanisms for sounding pitches. The first string instruments with struck strings were the hammered dulcimers,[6] which were used since the Middle Ages in Europe. During the Middle Ages, there were several attempts at creating stringed keyboard instruments with struck strings.

#### Types of pianos

1. Grand pianos.
2. Upright Pianos.
3. Digital pianos.

### 4. Editor page

#### Student role - 4

Name: Oshini Fonseka  
UoW ID: w1868307  
IIT ID: 20210855

#### Completed tasks:-

- Sitemap using SVG
- Gallery page with thumbnail images
- Additional page containing anchor tags(description about the piano)
- Applying a background image to the main page
- Adding a title logo at the top of each page
- Creating this editor page containing editor information

## Appendix C: Screenshots - Webpage Validation Evidence

### 1. Validation of the sitemap

Document checking completed. No errors or warnings to show.

#### Source

```

1. <!DOCTYPE html>↵
2.   <html lang="en"↵
3.     <head>↵
4.       <meta charset="UTF-8">↵
5.       <title>↵
6.         Sitemap for your music website↵
7.       </title>↵
8.     ↵
9.     <link rel="stylesheet" href="stylesheet1.css"> ↵
10.   </head>↵
11.   ↵
12.   <body>↵
13.     <header>↵
14.       ↵
15.       <h1>Sitemap of Strings N' Notes</h1>↵
16.     </header>↵
17.     <p>Welcome to the sitemap! </p>↵
18.     <p>Click on where you want to visit.</p>↵
19.     <br>↵
20.     <svg class="svgmap" id="mysvg" height="1000" width="2000">↵
21.   ↵
22.     <!--svg path to draw the sitemap-->↵
23.     <path d="M 100 100, L 800 800, M 100 100, H 300 , M 350 350 H 550,↵
24.           M 570 570, H 680, M 800 800, H 890, M 250 550, H 550"/>↵
25.   ↵
26.     <a xlink:title="Main page" href="https://w1868300.users.ecs.westminster.ac.uk/WebDev/public_html/main_page.html">↵
27.       <text x="80" y="550">Main page</text>↵
28.       <circle cx="140" cy="550" r="110" /></a>↵
29.   ↵
30.     <circle cx="400" cy="100" r="100" />↵
31.   ↵
32.     <a xlink:title="Shopping cart" href="https://w1870107.users.ecs.westminster.ac.uk/public_html/CW/Main_code.html">↵
33.       <text x="495" y="110">Shopping cart</text>↵
34.       <circle cx="600" cy="110" r="110" /></a>↵
35.   ↵
36.     <a xlink:title="Gallery" href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/gallerypage_20210855.html">↵
37.       <text x="740" y="100">Gallery</text>↵
38.       <circle cx="800" cy="100" r="90" /></a>↵
39.   ↵
40.   ↵
41.     <a xlink:title="Query Form" href="https://w1868300.users.ecs.westminster.ac.uk/WebDev/public_html/query.html">↵
42.       <text x="560" y="350">Query form</text>↵
43.       <circle cx="650" cy="350" r="100" /></a>↵
44.   ↵
45.     <a xlink:title="Invoice" href="https://w1870107.users.ecs.westminster.ac.uk/public_html/CW/Invoice.html">↵
46.       <text x="800" y="320">Invoice</text>↵
47.       <circle cx="850" cy="320" r="120" /></a>↵
48.   ↵
49.     <a xlink:title="Quiz" href="https://w1870106.users.ecs.westminster.ac.uk/public_html/webDev/quiz.html">↵
50.       <text x="1000" y="350">Quiz</text>↵
51.       <circle cx="1040" cy="350" r="80" /></a>↵
52.   ↵
53.   ↵
54.     <a xlink:title="Additional page" href="https://w1868307.users.ecs.westminster.ac.uk/WebDev/additional_contentpg.html">↵
55.       <text x="700" y="570">Instruments</text>↵
56.       <circle cx="800" cy="570" r="115" /></a>↵
57.   ↵
58.   </circle cx="1000" cy="570" r="80" />↵

```



## The W3C CSS Validation Service

W3C CSS Validator results for TextArea (CSS level 3 + SVG)

Jump to: Va

### W3C CSS Validator results for TextArea (CSS level 3 + SVG)

#### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page the



```
<p>  
<a href="http://jigsaw.w3.org/css-validator/check/referer">  
    
</a>  
</p>
```



```
<p>  
<a href="http://jigsaw.w3.org/css-validator/check/referer">  
    
</a>  
</p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)

## 2. Validation of the gallery page

Document checking completed. No errors or warnings to show.

### Source

```

1. <!DOCTYPE html>↵
2. <html lang="en">↵
3.   <head>↵
4.     <meta charset="UTF-8">↵
5.     <title>Welcome to the gallery</title>↵
6.     ↵
7.     <link rel="stylesheet" href="stylesheet2.css">↵
8.     ↵
9.     <script>↵
10.    ↵
11.        var change;↵
12.        function color(){↵
13.            var color = document.getElementById("colors").value;↵
14.            document.bgColor= color;↵
15.        }↵
16.        ↵
17.        var change;↵
18.        function colour(){↵
19.            var color = document.getElementById("fontcolors").value;↵
20.            document.fgColor=color;↵
21.        }↵
22.        ↵
23.        function bigImg(x) {↵
24.            x.style.height = "600px";↵
25.            x.style.width = "600px";↵
26.        }↵
27.        ↵
28.        function normalImg(x) {↵
29.            x.style.height = "200px";↵
30.            x.style.width = "200px";↵
31.        }↵
32.        ↵
33.    ↵
34.    </script>↵
35.  </head>↵
36.  ↵
37.  <body>↵
38.  ↵
39.    ↵
40.    <h2> Basic Musical Instruments</h2>↵
41.    ↵
42.    ↵
43.    ↵
44.    <!--list of options for the background color-->↵
45.    <h3>Choose a background-color for your page;</h3>↵
46.    <form>↵
47.      <select name="colors" onchange="color()" id="colors">↵
48.        <option value="white">White</option>↵
49.        <option value="LightGray">Light gray</option>↵
50.        <option value="LightBlue">Light blue</option>↵
51.        <option value="Lavender">Lavender</option>↵
52.        <option value="LightYellow">Light yellow</option>↵
53.        <option value="Beige">Beige</option>↵
54.        <option value="LightPink">Light pink</option>↵

```



## The W3C CSS Validation Service

W3C CSS Validator results for TextArea (CSS level 3 + SVG)

Jump to: Va

### W3C CSS Validator results for TextArea (CSS level 3 + SVG)

#### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)

### 3. Validation of the additional content page

Document checking completed. No errors or warnings to show.

#### Source

```

1. <!DOCTYPE html>↵
2. <html lang="en" dir="ltr">↵
3. ↵
4. <head>↵
5.   <meta charset="utf-8">↵
6.   <title>content-page</title>↵
7.   <link rel="stylesheet" href="css/contentpg.css">↵
8.   <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.15.3/css/all.css" inte
9.   <link rel="preconnect" href="https://fonts.googleapis.com">↵
10.  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>↵
11.  <link href="https://fonts.googleapis.com/css2?family=Merriweather:wght@300;900&family=Monts
12.  <link rel="preconnect" href="https://fonts.googleapis.com">↵
13.  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>↵
14.  <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300;400;700&display=swap" re
15.  <link rel="preconnect" href="https://fonts.googleapis.com">↵
16.  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>↵
17.  <link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@300&display=swap" rel=
18. </head>↵
19. ↵
20. <body>↵
21.   <div class="nav-bar">↵
22.     <a class="nav" href="#gut">Guitar</a> <a class="nav" href="#pi">Piano</a> <a class="nav"
23.   </div>↵
24. ↵
25.   <h1 class="main-heading">↵
26.     Additional Content Page↵
27.   </h1>↵
28.   <p class="main-para">This content page includes descriptions of almost all popular standard
29.   <div id="gut" class="guitar">↵
30.     <div class="img">↵
31.       ↵
32.     </div>↵
33.     <h2 class="sub-head">The Guitar(Oneth - w1870106)</h2>↵
34.     <a class="g-nav" href="#gut">Introduction</a>↵
35.     <a class="g-nav" href="#his">History</a>↵
36.     <a class="g-nav" href="#fe">Features</a>↵
37.     <a class="g-nav" href="#ty">Types Of Guitars</a>↵
38.     <p class="pa">Invented in the mid 16th century in Spain The guitar originally had four cc
39.       soundboard, or belly.</p>↵
40.     <h3 id="his" class="sub-head2">History</h3>↵
41.     <p class="pa">The violin-type pegbox was replaced about 1600 by a flat, slightly reflexed
42.       were replaced by built-on↵
43.       ivory or↵
44.       metal↵
45.       frets in the 18th century. The fingerboard was originally flush with and ended at the b
46.       slightly above the level of the↵
47.       belly↵
48.       and was extended across it to the edge of the sound hole.↵
49.     ↵

```



## W3C CSS Validator results for TextArea (CSS level 3 + SVG)

### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
    </a>
  </p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)



If you like, you can download a copy of this image to keep in your local web directory, and change the XHTML fragm

If you would like to create a link to this page (i.e., this validation result) to make it easier to re-validate this page in th

```
http://jigsaw.w3.org/css-validator/validator$link
or
http://jigsaw.w3.org/css-validator/check/referer (for HTML/XML document only)
```



## Appendix D: Individual Statement

Student Name:	Oshini Fonseka	Student Id:	20210855
State what tasks you carried out in the project.			
Student role-4 <ul style="list-style-type: none"> <li>• sitemap for the website using SVG.</li> <li>• the gallery page with thumbnail images and two drop down menus.</li> <li>• Editor page.</li> <li>• Background image in the main page.</li> </ul>			
State what you enjoyed and did not enjoy about teamwork.			
Enjoyed: <ul style="list-style-type: none"> <li>• Discussing new ways to improve our web site.</li> <li>• Discussing how we can design web pages more attractively.</li> <li>• Team work</li> </ul> Did not enjoyed: <ul style="list-style-type: none"> <li>• Trying to find a time for a meeting where all the group members are available.</li> </ul>			
State what you learnt about teamwork.			
The ability to complete difficult tasks by talking to other members and helping with each other.			
State what skills you gained/learnt from undertaking the project.			
To design attractive sitemaps and to use javaScript in the code to make it more interactive.			
State any strengths about yourself that emerged whilst undertaking the project.			
<ul style="list-style-type: none"> <li>• The skill of designing.</li> <li>• Team working</li> </ul>			
State any weaknesses about yourself that emerged whilst undertaking the project.			
<ul style="list-style-type: none"> <li>• Time management.</li> </ul>			
State how you would do things better if you were to undertake the project again.			
First making a plan for each task to be completed. And finishing each at a time then merging all of it together to get a good output.			
Additional general or project specific comments:			