

Sarath Chandra kunisetty – skkh2@umkc.edu

GitHub link: <https://github.com/kunisettsarath/WebMobileProgramming-Spring22/tree/main/WebDevelopment/ICP's/ICP2>

Dharma Teja Konidena - dkbmy@umsystem.edu

GitHub link: <https://github.com/Dharmateja183/Web-and-Mobile-programming-spring-2022/tree/main/Webpart/ICP2>

ICP 2

Objective:

The objective of this ICP2 is to understand the basics of HTML and CSS by creating webpage with specified list of elements.

Introduction:

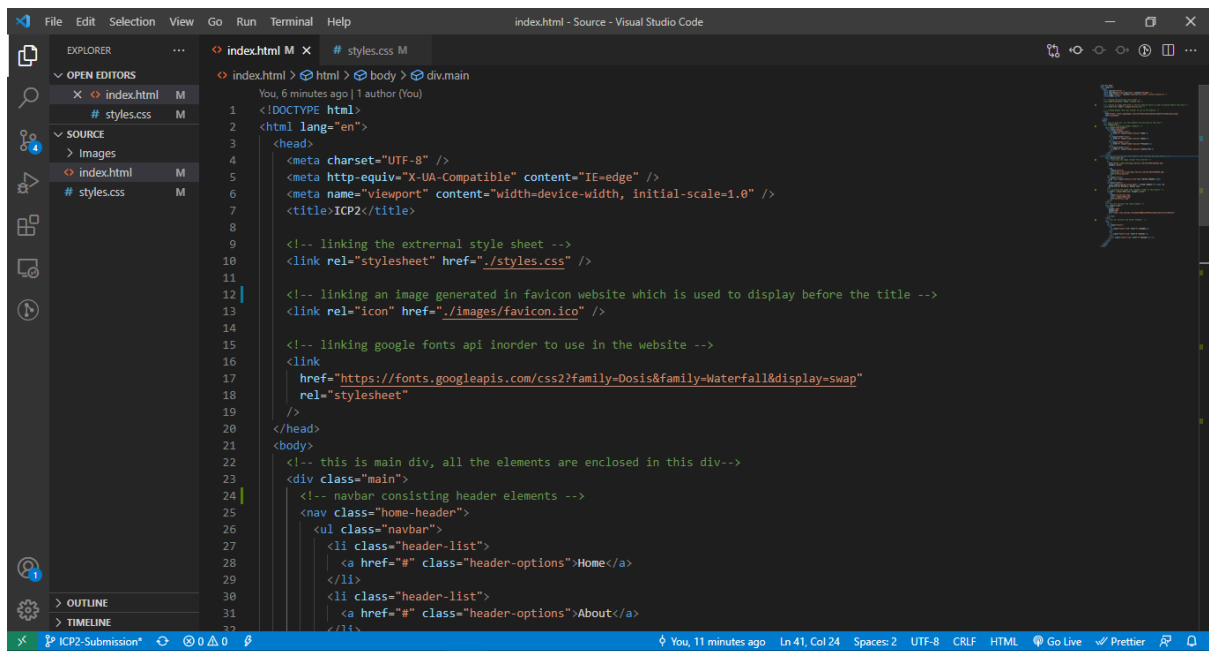
HTML (Hypertext Markup Language) is a markup language which is used to build webpages consisting of required information as per the user's requirement. All of the websites that we find on the internet are nothing but a series of html pages. Html plays a crucial role in designing website as the basic structure is defined through html, that's why it is termed as "backbone of internet".

CSS (Cascading Style Sheets), as HTML defines what elements to be present on the webpage, it is CSS which defines how those elements should be displayed. Through CSS users will be able to format the webpage right from the font to till animations.

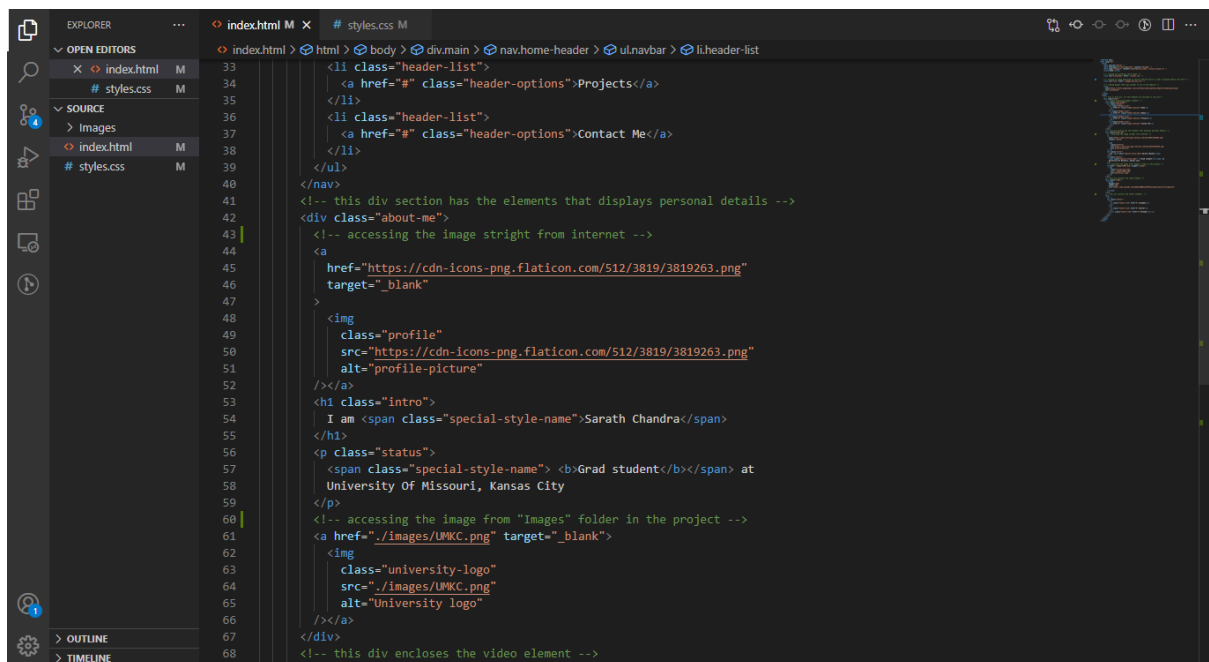
Task:

1. Created "ICP2-submission" branch in the remote repository and have checkout to that branch using GitHub desktop.
2. Then required folders for source and documentation was created for icp2 and the source folder was imported in VS code
3. Created index.html file and have added all the required elements specified as part of the task.
4. Added the required images under "Images" folder
5. Created styles.css in order to add the styling to index.html and have linked this file in index.html
6. Added the necessary styling for the index.html page
7. These changes were automatically tracked in the GitHub desktop and then the code was committed and pushed into the remote repository using GitHub desktop.
8. As the changes were in another branch apart from main a pullrequest was created for "ICP2-submission" branch and the branch is merged into the main branch.

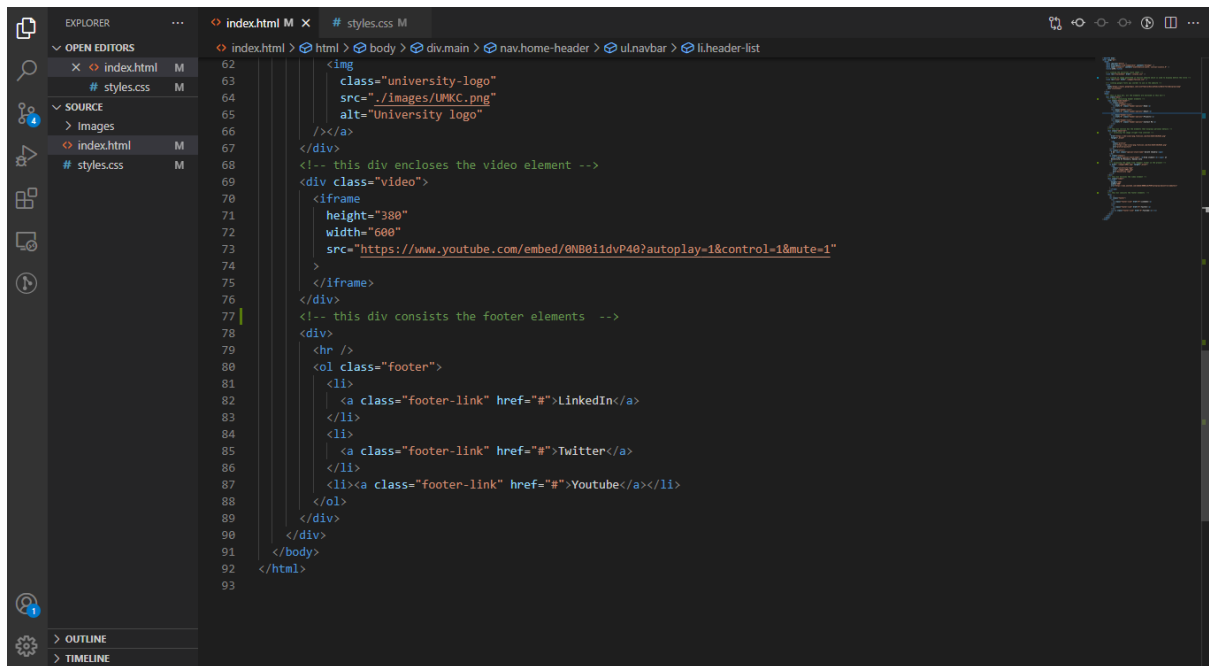
Index.html:



```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8" />
5     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
6     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
7     <title>ICP2</title>
8
9     <!-- linking the external style sheet -->
10    <link rel="stylesheet" href="./styles.css" />
11
12    <!-- linking an image generated in favicon website which is used to display before the title -->
13    <link rel="icon" href="./images/favicon.ico" />
14
15    <!-- linking google fonts api inorder to use in the website -->
16    <link
17      href="https://fonts.googleapis.com/css2?family=Dosis&family=Waterfall&display=swap"
18      rel="stylesheet"
19    />
20  </head>
21  <body>
22    <!-- this is main div, all the elements are enclosed in this div-->
23    <div class="main">
24      <!-- navbar consisting header elements -->
25      <nav class="home-header">
26        <ul class="navbar">
27          <li class="header-list">
28            <a href="#" class="header-options">Home</a>
29          </li>
30          <li class="header-list">
31            <a href="#" class="header-options">About</a>
32          </li>
33        </ul>
34      </nav>
```



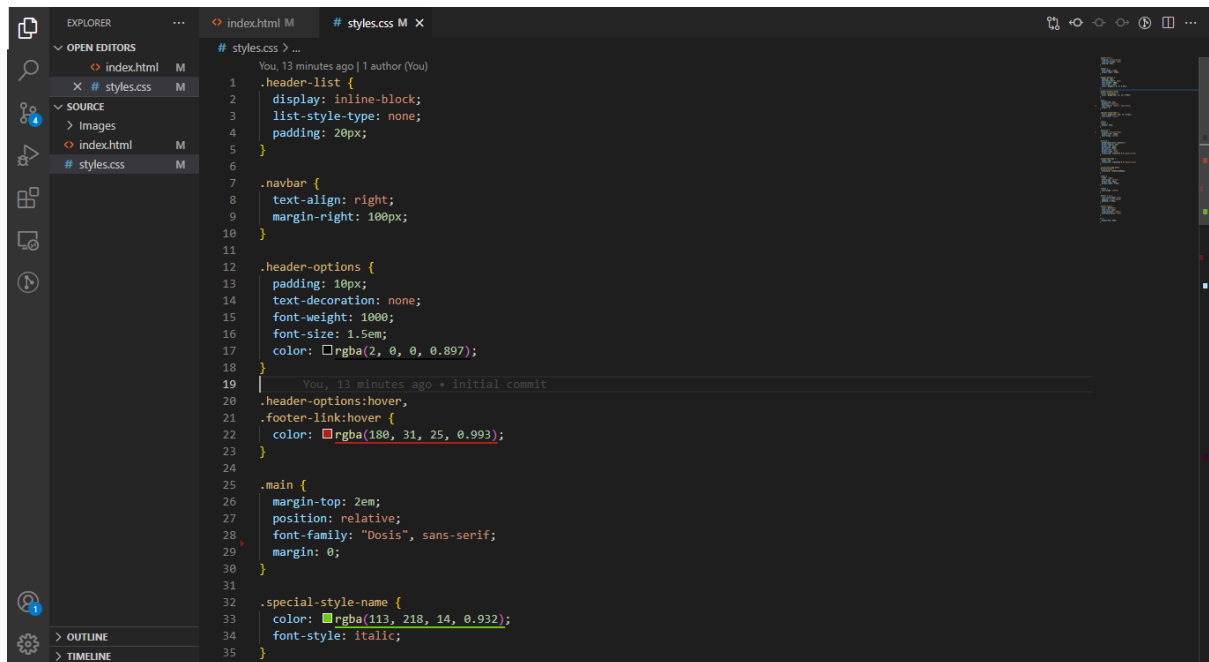
```
33    <li class="header-list">
34      <a href="#" class="header-options">Projects</a>
35    </li>
36    <li class="header-list">
37      <a href="#" class="header-options">Contact Me</a>
38    </li>
39  </ul>
40 </nav>
41 <!-- this div section has the elements that displays personal details -->
42 <div class="about-me">
43   <!-- accessing the image straight from internet -->
44   <a
45     href="https://cdn-icons-png.flaticon.com/512/3819/3819263.png"
46     target="_blank"
47   >
48     
53     <h1 class="intro">
54       I am <span class="special-style-name">Sarith Chandra</span>
55     </h1>
56     <p class="status">
57       <span class="special-style-name"><b>Grad student</b></span> at
58       University Of Missouri1, Kansas City
59     </p>
60   <!-- accessing the image from "Images" folder in the project -->
61   <a href="./images/UWKC.png" target="_blank">
62     
67   </a>
68 </div>
69 <!-- this div encloses the video element -->
```



The screenshot shows the VS Code editor with two files open: `index.html` and `styles.css`. The `index.html` file is the active editor, showing the following code:

```
62 
67 </div>
68 <!-- this div encloses the video element -->
69 <div class="video">
70   <iframe
71     height="380"
72     width="600"
73     src="https://www.youtube.com/embed/0NB0i1dvP40?autoplay=1&control=1&mute=1"
74   >
75   </iframe>
76 </div>
77 <!-- this div consists the footer elements -->
78 <div>
79   <hr />
80   <ol class="footer">
81     <li>
82       <a class="footer-link" href="#">LinkedIn</a>
83     </li>
84     <li>
85       <a class="footer-link" href="#">Twitter</a>
86     </li>
87     <li><a class="footer-link" href="#">Youtube</a></li>
88   </ol>
89 </div>
90 </div>
91 </body>
92 </html>
93
```

Styles.css:



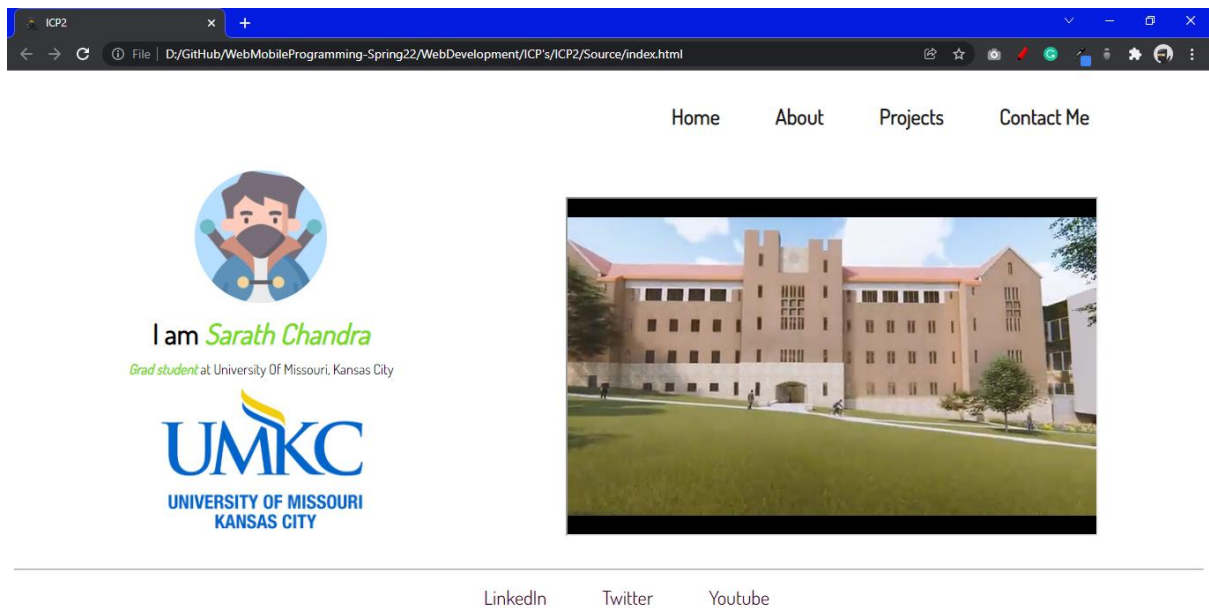
The screenshot shows the VS Code editor with the `styles.css` file open. The code is as follows:

```
1 .header-list {
2   display: inline-block;
3   list-style-type: none;
4   padding: 20px;
5 }
6
7 .navbar {
8   text-align: right;
9   margin-right: 100px;
10 }
11
12 .header-options {
13   padding: 10px;
14   text-decoration: none;
15   font-weight: 1000;
16   font-size: 1.5em;
17   color: rgba(2, 0, 0, 0.897);
18 }
19
20 .header-options:hover,
21 .footer-link:hover {
22   color: rgba(180, 31, 25, 0.993);
23 }
24
25 .main {
26   margin-top: 2em;
27   position: relative;
28   font-family: "Dosis", sans-serif;
29   margin: 0;
30 }
31
32 .special-style-name {
33   color: rgba(113, 218, 14, 0.932);
34   font-style: italic;
35 }
```

```
37 .intro,
38 .status {
39     margin: 10px;
40 }
41
42 .about-me {
43     display: inline-block;
44     margin-left: 120px;
45     text-align: center;
46 }
47
48 .profile {
49     background-color: #b5deff;
50     border-radius: 50%;
51     margin-top: 10px;
52     max-width: 150px;
53     margin-left: auto;
54     margin-right: auto;
55     transition: transform 0.7s ease-in-out;
56 }
57
58 .university-logo {
59     width: 90%;
60     transition: transform 0.7s ease-in-out;
61 }
62
63 .university-logo:hover,
64 .profile:hover {
65     transform: rotateY(180deg);
66 }
67
```

```
63 .university-logo:hover,
64 .profile:hover {
65     transform: rotateY(180deg);
66 }
67
68 .video {
69     float: right;
70     text-align: center;
71     margin-top: 40px;
72     margin-right: 120px;
73 }
74
75 .footer {
76     text-align: center;
77 }
78
79 .footer > li {
80     list-style-type: none;
81     display: inline-block;
82     padding: 0 30px;
83 }
84
85 .footer-link {
86     color: #460227;
87     font-size: 22px;
88     align-content: center;
89     text-decoration: none;
90 }
91
92 hr {
93     margin-top: 40px;
94 }
95
```

Output:



*Added some hover effect for the images and clicking on the images will redirect to that image in a new tab

** **Inline elements used:** span, a, video, img & **Block elements used:** hr, p, div, h1