CSEE5590-0003

ICP 2: HTML & CSS

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Introduction

Hyper Text Mark-up Language (HTML) is used to provide the framework for a webpage while Cascading Style Sheets (CSS) provides style that can be used repeatedly through the use of linked styles sheets.

This ICP explores the concepts of HTML & CSS by creating a webpage and employing various tags to create its structure, while also applying visual styles through CSS.

Tasks

The objective of this ICP was the create a webpage by using various html tags along with CSS concepts (such as class and id identifiers) to apply styling. This report will use code examples from Joe Moon's webpage to demonstrate what was done however similar structures and code were used for the other contributors.

Overall, the webpage was structured through the use of and tags to create containers for content such as text and images. The webpage's title banner uses both to show the title along with images that frame the text. Because <h1> displays as a block, an "inline" class was created to have the text and images appear in one line as shown below. (note CSS code will not be shown here)

Code:

```
<div id="wrapper">
    <!-- Web page title banner -->
    <span id="banner">
        <img src="images/umkc.png" alt="logo">
        <h1 class="inline">ICP 2 - HTML & CSS</h1>
        <img src="images/umkc.png" alt="logo">
    </span>
```

The result:

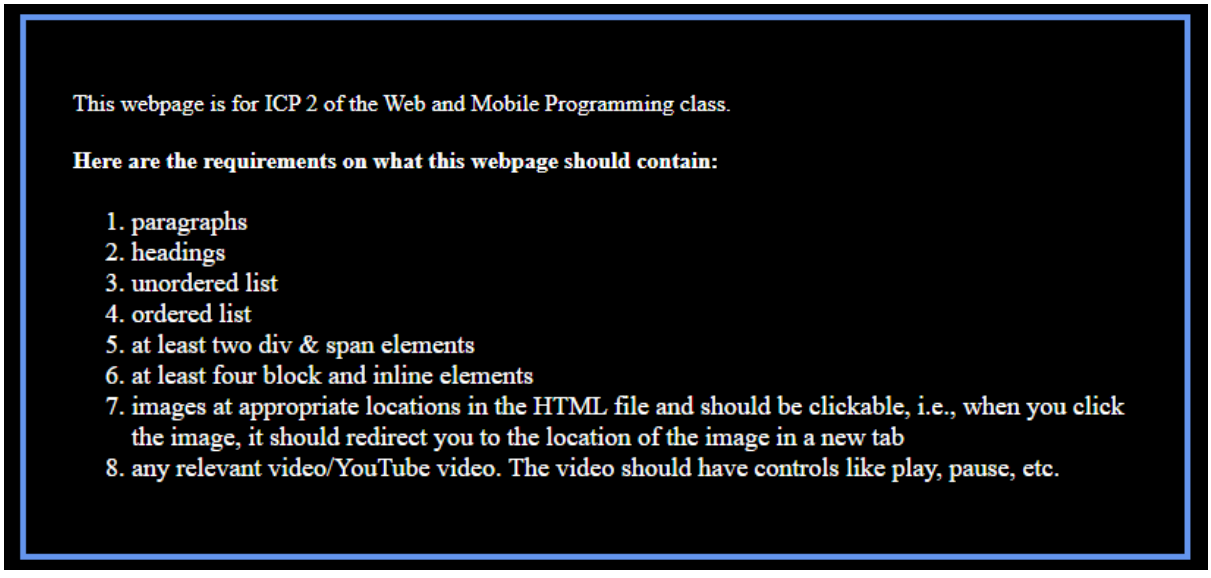
Specific content was organized using the list structure. For textual information, an ordered list <ol> tag was used to display the information in a logical manner which was contained within its own tag.

Code:

```
<!-- Web page content description -->
<div class="visual-container">
  <p>
    This webpage is for ICP 2 of the Web and Mobile Programming class.
  </p>

  <h4>Here are the requirements on what this webpage should contain:</h4>
  <ol>
    <li>paragraphs</li>
    <li>headings</li>
    <li>unordered list</li>
    <li>ordered list</li>
    <li>at least two div & span elements</li>
    <li>at least four block and inline elements</li>
    <li>
      images at appropriate locations in the HTML file and should be
      clickable, i.e., when you click the image, it should redirect you to
      the location of the image in a new tab
    </li>
    <li>
      any relevant video/YouTube video. The video should have controls
      like play, pause, etc.
    </li>
  </ol>
</div>
```

Result:



Non-textual information was organized using an unordered list as the information had no relatable sequence. This was used for images in combination with flex-box, which was employed in the webpage's style sheets. While it is possible to create the following result using flex-box alone, the list allowed for a greater range of CSS selectors to be used.

Code:

```
<!-- Flex box example with images -->
<div class="visual-container center">
  <span class="sub-banner">
    <h4 class="inline">Some images for you to look at.</h4>
    <img src="images/eyes.jpg" alt="eye emoji" id="eyes" />
  </span>
  <p>These are random images collected from the web. You can click on them to go to their source.</p>
  <div>
    <!-- A simple image reel using flex-box -->
    <ul id="img-reel">
      <li>
        <a href="https://unsplash.com/s/photos/view" target="_blank">
          <img src="images/img1.jpg" alt="some image" />
        </a>
      </li>
      <li>
        <a
          href="https://www.gettyimages.ca/collections/500pxi"
          target="_blank"
        >
          <img src="images/img2.jpg" alt="some image" />
        </a>
      </li>
      <li>
        <a href="https://unsplash.com/s/photos/magic" target="_blank">
          <img src="images/img3.jpg" alt="some image" />
        </a>
      </li>
    </ul>
  </div>
</div>
```

Result:

Finally, multimedia content was displayed through the use if <iframe> tags which allowed YouTube videos to be displayed directly on the webpage while also allowing access to its playback features.

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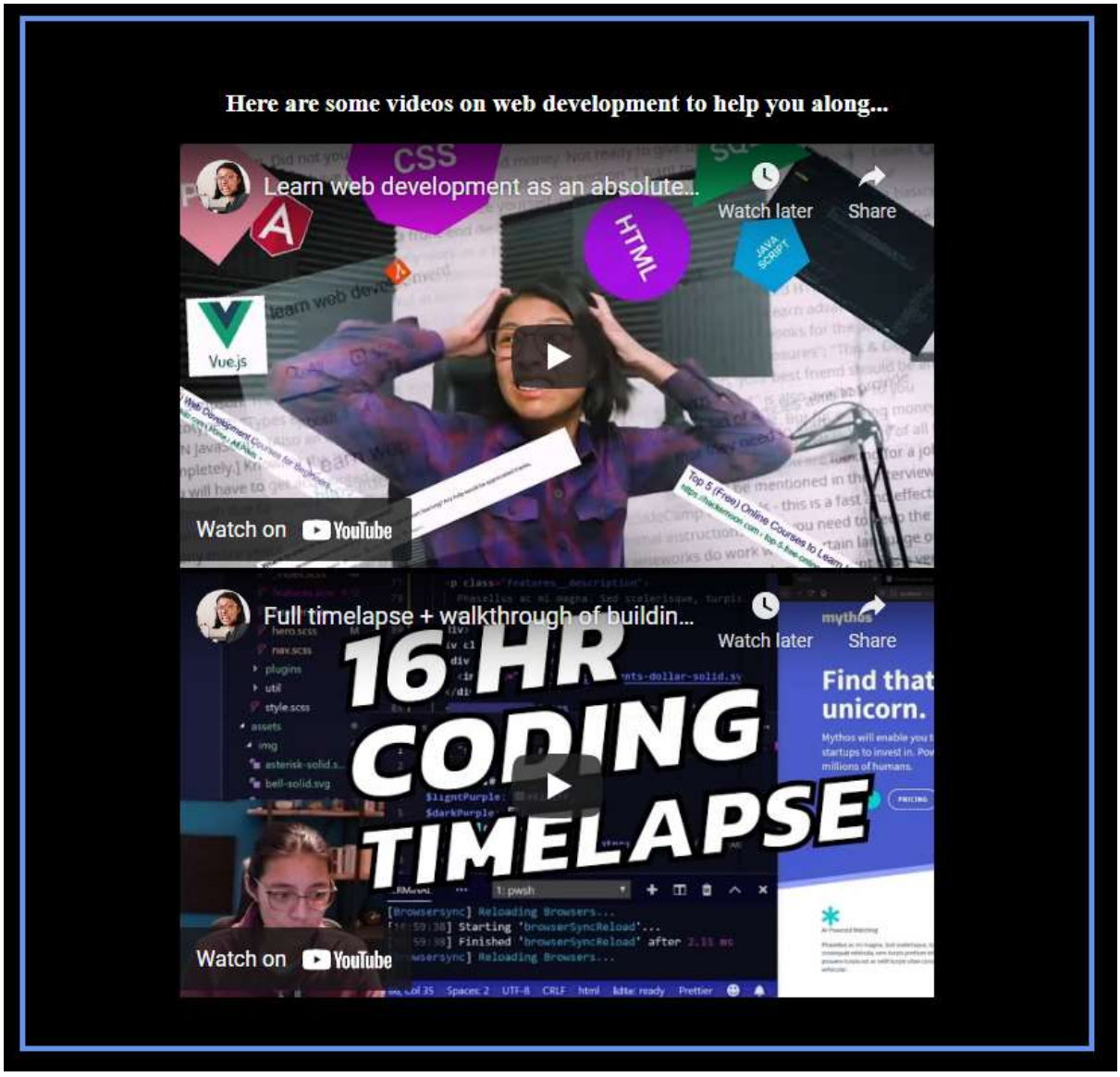
Code:

```
<!-- Embedded video -->
<div class="visual-container center">
  <h3>Here are some videos on web development to help you along...</h3>
  <iframe
    width="560"
    height="315"
    src="https://www.youtube.com/embed/ysEN5RaKOlA"
    title="YouTube video player"
    frameborder="0"
    allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope;
    picture-in-picture"
    allowfullscreen
  ></iframe>
```

Result:



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Contribution

Although the contents of the index.html files for each member will vary, all other contributions for this ICP were evenly done between group members.