

ISCG6420 Semester 1 2024

Exercise: Create your first website

This exercise will take you through the process of creating the structure of a simple website using HTML. Subsequent exercises will build on the output of this exercise, so remember to save your work in a suitable repository (eg: github).

Setup your new project.

Use your computer's file browser to find a suitable location for your new project. Create a new folder for your website files.

Create your index file.

Use your code editor of choice (eg: VSCode) to open your chosen project directory. Create a new file called "index.html" and open it for editing with your code editor.

Add HTML structure

Add the following content to your index file:

A screenshot of a code editor with a dark background. The file name 'index.html' is visible in the top left. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6
7     <title>My first site</title>
8
9     <link rel="stylesheet" href="style.css">
10 </head>
11 <body>
12
13 </body>
14 </html>
```

Save index.html.

Test your site

Open index.html with a modern web browser (Firefox, Chrome, Edge, Safari). You should see a blank page with your URL bar containing the path to your html file, and the tab title containing the text inside the <title> element in your code.

Add page content

In the body element, add the following code:

```
<body>
  <div class="content">
    
    <H2>Web Development</H2>
    <p>
      Web development is the act of creating and maintaining websites and other web-based tools.
      It involves the use of many technologies to build and deliver web pages and applications
      to users. The scope of use is wide, allowing for a highly flexible, dynamic space for
      innovation and long term sustainability.
    </p>
    <h2>Web Technologies</h2>
    <table>
      <thead><th>Technology</th><th>Description</th></thead>
      <tr><td>HTML</td><td>...</td></tr>
      <tr><td>CSS</td><td>...</td></tr>
      <tr><td>JS</td><td>...</td></tr>
    </table>
    <h2>Development Tools</h2>
    <table>
      <thead><th>Technology</th><th>Description</th></thead>
      <tr><td>IDE</td><td>...</td></tr>
      <tr><td>Git</td><td>...</td></tr>
      <tr><td>Web Browser</td><td>...</td></tr>
    </table>
  </div>

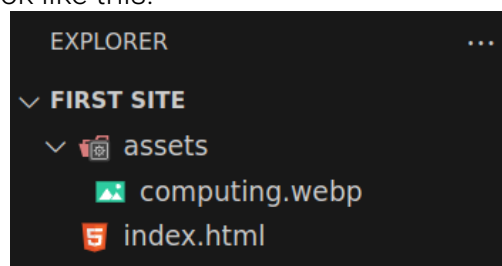
  <div class="sidepanel">

</div>
</body>
```

If you refresh your web browser tab you'll see some new headings, paragraph, and a table with some missing content. You can also see the image added at the top of the "content" div is not visible on the web page. Let's fix these issues.

Add the image asset

In your project root directory (the folder containing the index.html file) create a new directory called "assets". Copy the image file provided with this exercise to the assets directory. Your file structure should look like this:



Filling the table

In the <table> there are some <td> elements with placeholder content (...). For each of these elements replace the content with descriptions of the technology named in the row.

Create a sidebar element

Under the “content” div create a new div element with the class “sidebar”. Add the following code:

```
<div class="sidebar">
  <h1>ISCG6420</h1>
  <h3>Internet & Website Development</h3>
  <p>
    IWD is a Level 6, second year course in the Bachelor of Computing Systems Graduate programme.
    Enrolled students will learn to develop sophisticated enterprise websites using core web
    technologies. This includes HTML, CSS, JS, jQuery, AJAX, XML, and JSON.
  </p>
</div>
```

Save your work and refresh your web browser tab. You should now see a new section appended below the Development Tools <table>.

Update your Repository

Once you have completed the above steps, create a new git commit and push your changes to your Github repository.

Exercise 1 complete.