Web Development and OS Supporting Document

This document must be completed and uploaded as part of your submission for the Web Dev and OS assignment 2. This should also be brought to the demo for the assignment and will be marked during that demo

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**The link to your final web application (task 4 / 5) : https://hf-2024.web.app**

Add below all proof as requested in the assignment specification, update the contents table pages and upload this document with your submission.

No details are needed for task four and five as this will be shown at the demo

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# Task One

**HTML – Tags**

|  |  |
| --- | --- |
| **Criteria** | **Location (page / line number)** |
| semantic tag for grouping the contents of the header | **index.html Line 27 demos.html Line 24, interest.html Line 27** |
| heading at appropriate level | **index.html Line 50, demos.html Line 42, interest.html Line 24** |
| numbered list | **index.html Line 103** |
| emphasised text | **index.html Line 65, demos.html Line 53,**  **interest.html Line 180,** |
| hyperlink to anchor on an internal page | **interest.html Line 258** |

**HTML - Images**

|  |  |
| --- | --- |
| **Criteria** | **Location (page / line number)** |
| img tag for image with suitable optimised format and alt text | **demos.html Line 27, index.html Line 56, interest.html Line 30** |
| picture tag with different images for mobile and desktop in a suitable, modern (e.g. AVIF, WEBP) optimised image format | **index.html Line 89, interest.html Line 168** |
| picture tag fallback for older browsers | **index.html Line 89** |
| multi-resolution images (srcset) for different screen resolutions (NOT SVG) | **index.html Line 56** |
| SVG image | **interest.html Line 222** |
| HTML comments to show the source of the images | **Interest.html Line 230**  **Demos.html line 51** |

# Task Two

**Screenshot of page, clearly showing your name**

**A screenshot of a computer program

Description automatically generated**

**Screenshot of initial validation, showing at least 5 errors**

**A screenshot of a computer

Description automatically generated**

**5 of the changes you did to make the HTML valid**

|  |  |  |  |
| --- | --- | --- | --- |
| **Original error description** | **Original code** | **Corrected code** | **Description of correction** |
| Language Attribute: The lang attribute value should be a valid language code. | <html lang="uken"> | <html lang="en"> | Change lang="uken" to lang="en" to denote English language correctly. |
| Incorrect Encoding: | <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"> | <meta charset="UTF-8"> | The <meta> tag should use charset="UTF-8" to ensure the correct character encoding. |
| Title Tag Misnamed | <title>Document</titel> | <title>Document</title> | The title tag is incorrectly closed with </titel>. It should be </title>. |
| Paragraph Tags | <p>My name is Heliya Fernando...  p>This table contains qualifications... | <p>My name is Heliya Fernando...</p>  <p>This table contains qualifications...</p> | An opening <p> tag was missing. |
| Table Data Tags | <td>>NETWORKING CONCEPTS AND CYBER SECURITY<td> | <td>NETWORKING CONCEPTS AND CYBER SECURITY</td> | The table data tags (<td>) should be closed properly. There's also an extra > that should be removed. |

**Screenshot showing validation with no errors**

**A screenshot of a computer

Description automatically generated**

**Correction of the image**

|  |  |  |  |
| --- | --- | --- | --- |
| **New format** | **Original size (bytes)** | **Size after changes (bytes)** | **Changes made** |
| **AVIF** | **850kb** | **3.47kb** | **Put the image into sqoosh. Reduce the quality by 50% and kept the effort at 4.**  **Changed the image into a AVIF** |

**5 corrections made for good HTML practice**

|  |  |  |
| --- | --- | --- |
| **Original code** | **Correct code** | **Reason for change** |
| <link href="styles.css"> | <link href="styles.css" rel="stylesheet"> | To specify the relationship as a stylesheet, ensuring correct loading and application of styles. |
| No <header> tag | Proper use of semantic <header> tag.  <header>  <picture>  <img src="images/lg.avif" alt="Logo" id="logo">  </picture>  </header> | Enhances accessibility and readability of the HTML structure. |
| No <main> tag | Proper use of semantic <main> tag.  <main>  <h2>Qualifications</h2>  <img src="images/star.avif" alt="Star" id="Star">  <section id="tableq">  <h3>Qualification Details</h3>  <p>My name is Heliya Fernando. I was given this page and have corrected all the issues with the HTML and the  image  onthis page as part of my assessment.</p>  <p>This table contains qualifications I have studied, and ones I am currently studying:</p>  </section>  .  .  .  .  .  </main> | Enhances accessibility and readability of the HTML structure. |
| Incomplete navigation structure, potential accessibility issues.  <a href="pages/home.html">Home</a> | <a href="qualifications.html">Qualifications</a> |  <a href="interest.html">Interests</a>| <a href="demo.html">Demos</a> | Enhanced <nav> element with a list (<ul>) containing links  <nav class="mainNav">  <!-- Navigation Bar -->  <ul>  <li><a href="index.html">Home</a></li>  <li><a aria-current="page" href="qualifications.html">Qualifications  </a></li>  <li><a href="interest.html">Cloud</a></li>  <li><a href="demos.html">Demos</a></li>  </ul>  </nav> | Improves the structure of the navigation bar, making it more accessible and easier for users and search engines to understand the site's layout.  These changes enhance the usability and standards compliance of your HTML, contributing to a better user experience and potentially higher search engine rankings due to improved accessibility and semantic clarity. |
| Only basic viewport meta tag.  <meta name="viewport" content="width=device-width, initial-scale=1.0"> | <meta charset="UTF-8">  <meta http-equiv="X-UA-Compatible" content="IE=edge">  <meta name="description" content="Welcome to Qualifications ">  <meta name="viewport" content="width=device-width, initial-scale=1.0"> | Charset declaration ensures correct text encoding and the description meta tag improves SEO and provides a summary of the page content to search engines and social media platforms |

# Task Three

**Wireframe for mobile for home page**

**A screenshot of a computer

Description automatically generated**

**Wireframe for desktop for home page (must be different than mobile)**

**A screenshot of a computer

Description automatically generated**

**Wireframe for mobile for CSS demo page**

**A screenshot of a computer

Description automatically generated**

**Wireframe for desktop for CSS demo page (must be different than mobile)**

A screenshot of a computer

Description automatically generated

**CSS Skills**

|  |  |
| --- | --- |
| **criteria** | **Location (page / line number)** |
| flexbox containing at least 2 items | **Demo page/ styles.css line 323** |
| grid of at least 2x2 | **Cssdemo page/ cssdemo.css line 52** |
| element selector | **styles.css line 15** |
| ID selector | **styles.css line 2** |
| class selector | **styles.css line 46** |
| one other type of selector | **Styles.css line 86** |
| alternative fonts to be used when the main one is not available |  |
| relative units of length, such as em | **Styles.css line 11** |
| minimum and maximum width of the page | **Styles.css line 3 & 4** |
| CSS comments to help the developer | **Styles.css line 1** |
| overriding style from the mobile styles to the desktop styles in a media query | **Styles.css line 353** |