

Web Design and Development 4COSC011W

Report

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Link(s) to Website

URL:

- 1) Presentation Page -
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/Presentation.html>
- 2) Main Page –
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/Mainpage.html>
- 3) Cv Page -
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/Cv.html>
- 4) Ideal Job -
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/IdealJob.html>
- 5) Query Form –
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/QueryForm.html>
- 6) Sitemap-
<https://w2044381.users.ecs.westminster.ac.uk/WebDev2024/Sitemap.html>

Contents

1. Technical Discussion.....	1
2.1 Implementation.....	1
2.1.1. Presentation page.....	1
2.1.2. Main page.....	1
2.1.3. CV.....	1
2.1.4. Ideal job.....	1
2.1.5. Query form.....	1
2.1.6. Sitemap.....	1
2. Janet.....	1
3. Webpage Validation Statement.....	1
References.....	1
Appendices.....	1
Appendix A: Code.....	1
Appendix B: Screenshots.....	1
Appendix C: Screenshots - Webpage Validation Evidence.....	1

1. Technical Discussion

2.1 Implementation

2.1.1. Presentation page

In developing my webpage, I began with fundamental HTML elements like `<html>`, `<head>`, and `<body>` to organise my content logically. I ensured compatibility across devices by incorporating essential meta tags for character encoding and viewport settings. Naming the webpage using the `<title>` tag helped identify it in the browser tab. An innovative addition was the `<meta>` tag with `http-equiv="refresh"`, automatically redirecting users to `mainpage.html` after 3 seconds for quicker access to the main content.

CSS played a crucial role in refining the appearance of my webpage. I employed techniques such as resetting margins and padding (`margin: 0; padding: 0;`) to establish a clean layout foundation. Utilizing flexbox (`display: flex;`), I centred content vertically and horizontally, enhancing overall readability and visual balance. Selecting a responsive background image (`background.jpg`) with `background-size: cover;` ensured it filled the viewport effectively. Font choices (`font-family: Arial, sans-serif;`) were deliberate to ensure readability across devices, complemented by a colour scheme featuring darkgrey for the background and bisque for text to enhance visual appeal.

Adjusting the timing for the automatic redirect (`content="3"`) posed a challenge in ensuring seamless functionality across different platforms, resolved through iterative testing and adjustment. Learning how various CSS properties influence layout and design was insightful, supported by resources such as online tutorials and lecture materials. This approach enabled me to create a visually appealing and user-friendly webpage that adheres to contemporary design standards.

Throughout the project, I referenced lecture notes and online resources to understand HTML meta tags, and advanced CSS techniques like Flexbox, and ensure cross-device compatibility. These resources were instrumental in shaping my approach and decision-making process, resulting in a well-executed presentation page.

2.1.2. Main page

I began by structuring my webpage with `<!DOCTYPE html>` for document clarity and `<html lang="en">` for language specification. In the `<head>` section, `<meta>` tags ensured proper character encoding and viewport settings, crucial for consistent display across devices. Naming the webpage using `<title>` as "Main Page" helps users identify it in browser tabs, enhancing accessibility.

Global Styles: Resetting default margins and padding (`body, html { margin: 0; padding: 0; }`) created a clean layout foundation. Using flexbox (`display: flex; flex-direction: column;`) organized content vertically, aiding navigation and readability.

Header and Navigation: A fixed `<header>` with a dark background and centred content (`background-colour: #333; colour: white; padding: 20px 20px;`) ensures visibility

and user-friendly navigation (`nav { flex-grow: 1; }`). Styling `` and `` elements (`list-style: none;`) simplified navigation presentation.

Addressing responsiveness across devices required testing and adjusting flexbox properties (`flex-grow`) for optimal layout. Consultations with lecture notes and online resources provided insights into HTML5, and CSS3 techniques, ensuring the webpage met modern design standards effectively.

2.1.3. CV

I started with `<!DOCTYPE html>` to define the document type and `<html lang="en">` to set the language. In the `<head>`, I used `<meta>` tags for character encoding and viewport settings to ensure my CV displays properly on different devices. The `<title>` tag named the page "Hamza Hassan CV," which helps users recognize it in their browser tabs.

Global Styles: CSS rules like `body { margin: 0; padding: 20px; padding-top: 20px; }` was used to reset margins and add padding for a neat layout. I chose a dark grey background (`background-color: darkgrey;`) to keep the design clean and professional.

Header and Navigation: The `<header>` had a dark background with white text (`background: #333; color: #fff; padding: 10px 0; text-align: center;`). Using flexbox (`display: flex; justify-content: center;`), I organized the navigation links (`` with `` and `<a>` tags) to be centred and easy to find.

I focused on making sure my CV looked good on all devices, adjusting layout settings like Flexbox for better display. I used online tutorials and notes from class to improve how I structured my HTML and styled it with CSS effectively.

This approach was all about making my CV easy to read and visually appealing, which is important for showing off my skills and experience clearly.

2.1.4. Ideal job

I began with `<!DOCTYPE html>` to specify the document type and `<html lang="en">` to set the language. In the `<head>`, I used `<meta>` tags for character encoding and viewport settings, crucial for responsive design. The `<title>` tag named the page "My Ideal Job," making it recognizable in browser tabs.

Overall Design: CSS rules like `body { font-family: Arial, sans-serif; margin: 0; padding: 20px; padding-top: 20px; line-height: 1.6; background-color: darkgrey; }` were used to style the entire page. This ensured a neat layout with adequate spacing and a dark grey background for a professional look.

Header and Navigation: The `<header>` featured a centered layout with a dark background and white text (`background: #333; color: #fff; padding: 10px 0; text-align: center;`). Navigation links (`` with `` and `<a>` tags) were styled to stand out and become underlined when hovered over.

This project aimed to showcase my career aspirations using structured HTML and styled CSS. It helped me understand how to organise content effectively and enhance user experience through design choices.

2.1.5. Query form

I began with a simple `<!DOCTYPE html>` declaration and set the language to English with `<html lang="en">`. The `<head>` section included meta tags for character encoding and responsive design, crucial for adapting to various screen sizes. The `<title>` tag named the page "Query Form," making it identifiable in browser tabs.

Overall Design: The `<body>` was styled with Arial font, zero margins, and adequate padding (`body { font-family: Arial, sans-serif; margin: 0; padding: 20px; padding-top: 20px; background-color: darkgrey; }`) for a clean layout with a dark grey background.

Header and Navigation: The `<header>` featured a centered layout with an underline style for the title (`header { background-color: #333; color: #fff; padding: 10px 20px; text-align: center; font-family: 'Courier New', Courier, monospace; text-decoration: underline; }`). Navigation was omitted for simplicity.

The `<form>` element was structured with `<label>`, `<input>`, `<select>`, and `<textarea>` tags styled to maintain consistency (`form { max-width: 500px; margin: auto; background-color: #fff; padding: 20px; border: 2px solid black; border-radius: 8px; box-shadow: 0 0 10px rgba(0,0,0,0.1); }`). Buttons were styled with background and hover effects for user interactivity (`button { padding: 10px 15px; margin-top: 10px; background-color: #333; color: #fff; border: none; cursor: pointer; border-radius: 4px; }`).

View Query: JavaScript functions (`viewQuery()`, `editQuery()`, `sendQuery()`) were used to manage form interaction. `viewQuery()` displayed a summary of form data when the user clicked "View Query." `editQuery()` allowed users to edit their input, and `sendQuery()` simulated sending the form data with an alert message.

This project helped me understand how to create interactive web forms using HTML for structure, CSS for styling, and JavaScript for functionality. It reinforced the importance of user experience in web design and the role of each language in achieving a cohesive and responsive web application.

2.1.6. Sitemap

I created a simple HTML page titled "My Sitemap" using `<html lang="en">` for language specification. The `<head>` section includes meta tags for character encoding and responsive design. The `<title>` is set to "My Sitemap" for easy identification in browser tabs.

Overall Design: The `<body>` is styled with Arial font, zero margin, and padding (`body { font-family: Arial, sans-serif; margin: 0; padding: 0; line-height: 1.6; background-color: darkgrey; }`). The `<header>` features a dark grey background with white text, centered content, and subtle box-shadow for depth.

Footer: A fixed-position footer spans the width of the page, displaying contact information (`footer { width: 100%; background-color: #333; color: white; display: flex; align-items: center; justify-content: center; padding: 1px 1px; position: fixed; bottom: 0; text-align: center; box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1); }`).

Main Content: The sitemap is constructed using SVG (`<svg>` element) to visually represent page links. Each `<rect>` represents a page link area, `<text>` provides label text, and `<line>` connects related pages (`<a>` tags wrap SVG elements for clickable links).

Interactive Styling: Pages change color on hover (`hoverable` class), enhancing user interaction (`.hoverable:hover { fill: lightblue; cursor: pointer; }`).

integrate SVG graphics into HTML for visual sitemaps, enhancing navigation clarity. CSS styles ensured a cohesive design, while JavaScript can extend functionality in future projects. This hands-on experience with web design fundamentals highlights the importance of structure, styling, and user interaction in creating effective web pages.

2. Janet

In creating my website, it was important to follow Janet regulations and policies to ensure everything was above board. Janet, which oversees network standards for UK educational institutions, focuses on security and ethical use.

1. **Data Protection:** I made sure to use secure forms and HTTPS encryption to protect user data, which Janet emphasizes for safeguarding information.
2. **Accessibility:** Using clear HTML structure and adding alternative text to images helps ensure everyone can access my site, which is a key part of Janet's accessibility standards.
3. **Content Integrity:** I was careful to credit all images and content properly to respect copyright rules, which Janet is strict about.
4. **Security Measures:** Janet requires sites to be secure, so I used HTTPS and followed best practices for coding security to prevent unauthorized access.

By sticking to these guidelines, my website not only meets legal requirements but also creates a safe and fair environment online, which is crucial in educational settings overseen by Janet.

3. Webpage Validation Statement

All my webpages passed W3C validation without errors. This ensures they adhere to web standards for HTML, CSS, and accessibility, ensuring compatibility across browsers and devices.

References

- Lecture notes and slides
- **SVG Essentials** by J. David Eisenberg and Amelia Bellamy-Royds

Appendices

Appendix B: Screenshots

1)Presentation Page Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Presentation Page</title>

  <meta http-equiv="refresh" content="3; url=file:///Users/hamza/Mywebsite/mainpage.html">
  <style>
    body, html {
      margin: 0;
      padding: 0;
      width: 100%;
      height: 100%;
      display: flex;
      align-items: center;
      justify-content: center;
      background-image: url('Images/background.jpg'); /* Path to your background image */
      background-size: cover;
      background-position: center;
      background-repeat: no-repeat;
      font-family: Arial, sans-serif;
      background-color: #darkgrey
    }

    .container {
      text-align: center;
    }

    h1 {
      font-size: 3em;
      color: #bisque;
    }

    #Website-Logo {
      justify-content: center;
      top: 300;
      width: 150px;
      left: 200;
      margin: 10px;
    }
  </style>
</head>
<body>
  <div class="container">
    <h1>Presentation Page</h1>
    <img alt="Website Logo" id="Website-Logo" />
  </div>
</body>
</html>
```



```
        z-index: 1;
    }

</style>
</head>
<body>
    <div class="container">
        
        <h1>Welcome to My Website</h1>
        <h2>Hamza Hassan</h2>
    </div>
</body>
</html>
```

2) Main Page Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Main Page</title>
    <style>
        body, html {
            margin: 0;
            padding: 0;
            width: 100%;
            height: 100%;
            font-family: Arial, sans-serif;
            display: flex;
            flex-direction: column;
        }

        header {
            width: 100%;
            background-color: #333;
            color: white;
            display: flex;
            align-items: center;
            justify-content: center;
            padding: 20px 20px;
            position: fixed;
            top: 0;
            z-index: 1000;
            box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
        }

        nav {
            flex-grow: 1;
            display: flex;
            justify-content: center;
        }

        nav ul {
            list-style: none;
```

```
margin: 0;
padding: 0;
display: flex;
align-items: center;
}

nav ul li {
margin-left: 10px;
}

nav ul li a {
text-decoration: none;
color: white;
padding: 10px 20px;
background-color: #444;
border-radius: 5px;
transition: background-color 0.3s;
display: block;
}

nav ul li a:hover {
background-color: #555;
}

nav ul li a.active {
background-color: #007BFF;
}

main {
flex: 1;
padding: 80px 20px 60px;
background-color: #f4f4f4;
}

.bio {
max-width: 800px;
margin: 0 auto;
text-align: center;
}
```

```
.bio h1 {
  font-size: 2.5em;
  margin-bottom: 20px;
}

.bio p {
  font-size: 1.2em;
  line-height: 1.6;
}

footer {
  width: 100%;
  background-color: #333;
  color: white;
  display: flex;
  align-items: center;
  justify-content: center;
  padding: 10px 20px;
  position: fixed;
  bottom: 0;
  text-align: center;
  box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1);
}

footer p {
  margin: 0;
}

footer a {
  color: #007BFF;
  text-decoration: none;
}

footer a:hover {
  text-decoration: underline;
}
```

```
#Website-Logo {
  position: fixed;
  top: 0px;
  left: 0px;
  width: 77px;
  z-index: 1001;
}
h1{
  text-decoration: underline;
  font-family: 'Courier New', Courier, monospace;
}
#Profile-img {
  position: fixed;
  bottom: 39px;
  right: 470px;
  width: 450px;
  z-index: 1001;
}
#Website-Logo2 {
  position: fixed;
  top: 0px;
  right: 0px;
  width: 77px;
  z-index: 1001;
}
</style>
</head>
<body>
  <header>
    <div class="logo">MyLogo</div>
    
    
    
    <nav>
      <ul>
        <li><a href="main.html" class="active">Home</a></li>
        <li><a href="cv.html">CV</a></li>
        <li><a href="idealjob.html">Ideal Job</a></li>
      </ul>
    </nav>
  </header>
</body>
</html>
```

```

<header>
  <div class="logo">MyLogo</div>
  
  
  
  <nav>
    <ul>
      <li><a href="main.html" class="active">Home</a></li>
      <li><a href="cv.html">CV</a></li>
      <li><a href="idealjob.html">Ideal Job</a></li>
      <li><a href="Queryform.html">Query Form</a></li>
      <li><a href="sitemap.html">Sitemap</a></li>
    </ul>
  </nav>
</header>

<main>
  <section class="bio">
    <h1>My Profile</h1>
    <p>Hello! I'm Hamza Hassan, I'm currently pursuing a bachelor's degree in computer science at the University of Westminster. Along with my studies, I am also a part-time developer, working on various web applications. As a British-born student with a clear vision and ambitious goals, I'm driven by a desire to transform data into meaningful insights. Join me as I navigate through this website of mine balancing academia, work, and my aspirations in the ever-evolving world of technology.</p>
  </section>
</main>

<footer>
  <p>Contact me at: <a href="mailto:Hamza.hassan.2343@gmail.com">Hamza.hassan.2343@gmail.com</a></p>
</footer>
</body>
</html>

```

3) CV Page Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title> Hamza Hassan CV</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      padding-top: 20px;
      line-height: 1.6;
      background-color: #333;
    }

    header {
      background: #333;
      color: #fff;
      padding: 10px 0;
      text-align: center;
    }

    nav ul {
      list-style: none;
      padding: 0;
      display: flex;
      justify-content: center;
    }

    nav ul li {
      margin: 0 15px;
    }

    nav ul li a {
      color: #fff;
      text-decoration: none;
    }
  </style>

```

```

nav ul li a: hover {
    text-decoration: underline;
}

h2 {
    margin-top: 40px;
    font-family: 'Courier New', Courier, monospace;
    text-decoration: underline;
}
h1{
    font-family: 'Courier New', Courier, monospace;
    text-decoration: underline;
}
#Website-Logo {
    position: absolute;
    top: 20px;
    left: 20px;
    width: 155px;
    z-index: 1001;
}
#Website-Logo2 {
    position: absolute;
    top: 20px;
    right: 20px;
    width: 155px;
    z-index: 1001;
}

#Website-CV {
    position: absolute;
    top: 250px;
    right: 20px;
    width: 255px;
    z-index: 1001;
}
</style>
</head>
<body>
<header>
<header>
    <h1>My CV</h1>
    
    
    
    <nav>
        <ul>
            <li><a href="#contact">Contact</a></li>
            <li><a href="#professional-summary">Professional Summary</a></li>
            <li><a href="#employment-experience">Employment and Supplementary Experience</a></li>
            <li><a href="#skills">Skills</a></li>
            <li><a href="#education">Education</a></li>
            <li><a href="#certifications">Certifications</a></li>
        </ul>
    </nav>
</header>

<section id="contact">
    <h2>Contact</h2>
    <p>Email: <a href="mailto:hamza.hassan.2343@gmail.com">hamza.hassan.2343@gmail.com</a></p>
    <p><strong>Phone: 07576242428</strong></p>
    <p><strong>Address: 28 Nathans Rd, London, Middlesex HA0 3RX</strong></p>
</section>

<section id="professional-summary">
    <h2>Professional Summary</h2>
    <p>A hard-working student seeking challenging positions which would enable me to demonstrate and utilise my communicative skills, flexible and creative. I have demonstrated the ability to work on my own initiative as well as part of a team. With experience presenting well-researched information and ideas to a group of people.</p>
</section>

<section id="employment-experience">
    <h2>Employment and Supplementary Experience</h2>
    <p><strong>Employability workshop from the British Computing</strong> | Careers and Employability University Of Westminster - London (2023)</p>
    <p>This was an in-person event that entailed exploring employability in the Computing sector. This event was amazing and really brought me closer to the industry.</p>
    <p>This workshop covered:</p>
    <ul>
        <li>Agenda and Introduction</li>
        <li>Looked into different fields of IT and what they required from us as students.</li>
    </ul>

```

```

<li>Looked through the different types of interview questions that could be asked + the SIAM method (IASK: ASK the person next to
<li>Finally, we reflected on the tasks and had the opportunity to ask any questions about what was covered.</li>
<li>Recap of BCS tools and preparing for applying for roles.</li>
</ul>
</section>

<section id="skills">
<h2>Skills</h2>
<ul>
<li>Enthusiastic and eager to learn.</li>
<li>Multilingual: English, Somali, Arabic.</li>
<li>Great Interpersonal Skills</li>
<li>Active listener, able to thrive in a team environment.</li>
<li>Worked with both public and private sector organisations.</li>
<li>Cloud Computing, AWS, Azure, Google Cloud Platform.</li>
<li>SQL Databases.</li>
<li>Proficient with various computer software such as MS365 suite (Excel, Word, Outlook, SharePoint, MS Dynamics, and Livelink Documents).</li>
<li>Able to adapt to changes very quickly.</li>
<li>Capable of strategic planning.</li>
<li>Able to prioritise and manage my own workload and stay driven to achieve set goals within a given timeline.</li>
<li>Problem-solving skills.</li>
</ul>
</section>

<section id="education">
<h2>Education</h2>
<p><strong>University of Westminster</strong> - London, ENG | 09/2023 - Present<br>
Bachelor of Science: Computer Science</p>
<p><strong>St Charles Sixth Form</strong> - London | 09/2019 - 07/2021<br>
Certificate of Higher Education: IT - Distinction Star</p>
<p><strong>St Charles Sixth Form</strong> - London | 09/2019 - 07/2021<br>
A-Levels: Physics - 7 / A</p>
<p><strong>Queens Park Community School</strong> - London, ENG | 09/2014 - 06/2019<br>
GCSEs: Maths - 7 / A</p>
<p><strong>Queens Park Community School</strong> - London, ENG | 09/2014 - 06/2019<br>
GCSEs: English Language - 8 / A*</p>
</section>

<section id="certifications">
<h2>Certifications</h2>
<p><strong>Amazon Web Services Certification</strong></p>
<ul>
<li>AWS Cloud Practitioner Certification - Pass</li>
<li>AWS Solutions Architect Certification - Pass</li>
</ul>
<p>Completed theory and have experience applying as well as safely deploying and utilising the Amazon Cloud with best practice in both AWS and Azure.</p>
<p>Currently pursuing further certifications such as the AWS Solutions Architect Professional and Certifications in Azure.</p>
</section>
</body>
</html>

```

4) Ideal Job Code:


```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Ideal Job</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      padding-top: 20px;
      line-height: 1.6;
      background-color: #darkgrey;
    }

    header {
      background: #333;
      color: #fff;
      padding: 10px 0;
      text-align: center;
    }

    nav ul {
      list-style: none;
      padding: 0;
      display: flex;
      justify-content: center;
    }

    nav ul li {
      margin: 0 15px;
    }

    nav ul li a {
      color: #fff;
      text-decoration: none;
    }

    nav ul li a:hover {
      text-decoration: underline;
    }

    h2 {
      margin-top: 40px;
      text-decoration: underline;
    }

    h1 {
      font-family: 'Courier New', Courier, monospace;
      text-decoration: underline;
    }

    #Website-Logo {
      position: absolute;
      top: 20px;
      left: 20px;
      width: 153px;
      z-index: 1001;
    }

    #Website-Logo2 {
      position: absolute;
      top: 20px;
      right: 20px;
      width: 159px;
      z-index: 1001;
    }
  </style>
</head>
<body>
  <header>
    <h1>My Ideal Job</h1>
    
    
    <nav>
      <ul>
        <li><a href="#description">Overview</a></li>
        <li><a href="#location">Location</a></li>
      </ul>
    </nav>
  </header>

```

```

        <li><a href="#responsibilities">Responsibilities</a></li>
        <li><a href="#colleagues">Colleagues</a></li>
    </ul>
</nav>
</header>

<section id="description">
    <h2>My Ideal Job Overview</h2>
    <p>My ideal job is becoming a data scientist because I love turning raw data into useful insights and new solutions. Data analytics ha
</section>

<section id="location">
    <h2>Ideal Location</h2>
    <p>My dream job as a data scientist would be preferably in London because it's such a dynamic city with a lot going on. I feel comfort
</section>

<section id="responsibilities">
    <h2>Potential Responsibilities</h2>
    <ul>
        <li>Collecting, cleaning, and preprocessing data to prepare it for analysis.</li>
        <li>Applying statistical techniques and machine learning models to extract insights from data.</li>
        <li>Visualizing data and presenting findings to stakeholders in a clear and understandable manner.</li>
        <li>Monitoring and optimizing model performance over time.</li>
        <li>Staying updated with industry trends and advancements in data science techniques.</li>
        <li>Ensuring data security and privacy protocols are followed throughout the data lifecycle.</li>
        <li>Collaborating with cross-functional teams to understand business needs and recommend data-driven solutions.</li>
    </ul>
</section>

<section id="colleagues">
    <h2>Future Colleagues</h2>
    <p>Working with colleagues as a data scientist would seem fun because we get to team up and share our different skills and ideas. It's
</section>
</body>
</html>

```

5) Query Form:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Query Form</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 20px;
            padding-top: 20px;
            background-color: #333;
        }

        /* New style for the header */
        header {
            background-color: #333; /* Dark grey background */
            color: #fff; /* White text */
            padding: 10px 20px;
            text-align: center;
            margin-bottom: 20px;
            font-family: 'Courier New', Courier, monospace;
            text-decoration: underline;
        }

        footer {
            width: 100%;
            background-color: #333;
            color: white;
            display: flex;
            align-items: center;
            justify-content: center;
            padding: 10px 20px;
            position: fixed;
            bottom: 0;
            left: 0;
            text-align: center;
            box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1);
        }
    </style>

```

```

form {
  max-width: 500px;
  margin: auto;
  background-color: #fff; /* White background for the form */
  padding: 20px;
  border: 2px solid black;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1); /* Soft shadow effect */
}

label {
  display: block;
  margin-top: 10px;
}

input, textarea, select {
  width: 100%;
  padding: 8px;
  margin-top: 5px;
  box-sizing: border-box;
  border: 1px solid #ccc; /* Light grey border */
  border-radius: 4px;
}

button {
  padding: 10px 15px;
  margin-top: 10px;
  background-color: #333;
  color: #fff;
  border: none;
  cursor: pointer;
  border-radius: 4px;
}

button:hover {
  background-color: #555;
}

.hidden {
  .hidden {
    display: none;
  }
}

#Website-Logo {
  position: fixed;
  top: 20px;
  left: 20px;
  width: 100px;
  z-index: 1001;
}

#Website-Logo2 {
  position: absolute;
  top: 20px;
  right: 20px;
  width: 100px;
  z-index: 1001;
}
</style>
</head>
<body>
<header>
  <h1>Query Form</h1>
  
  
</header>

<form id="queryForm">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name">

  <label for="email">Email Address:</label>
  <input type="email" id="email" name="email">

  <label for="subject">Query Subject:</label>
  <select id="subject" name="subject">
    <option value="">Select a subject</option>
    <option value="programming">Programming Experience</option>
    <option value="experience">Other Experience</option>
    <option value="skills">Transferable Skills</option>
  </select>
</form>

```

```

<label for="details">Query Details:</label>
<textarea id="details" name="details" rows="4"></textarea>

<button type="button" onclick="viewQuery()">View Query</button>
</form>

<div id="querySummary" class="hidden">
  <p><strong>Name:</strong> <span id="summaryName"></span></p>
  <p><strong>Email:</strong> <span id="summaryEmail"></span></p>
  <p><strong>Subject:</strong> <span id="summarySubject"></span></p>
  <p><strong>Details:</strong> <span id="summaryDetails"></span></p>
  <button onclick="editQuery()">Edit</button>
  <button onclick="sendQuery()">Send</button>
</div>

<script>
function viewQuery() {
  // Get form values
  var name = document.getElementById('name').value;
  var email = document.getElementById('email').value;
  var subject = document.getElementById('subject').value;
  var details = document.getElementById('details').value;

  // Check if required fields are filled
  if (name === '' || email === '' || subject === '' || details === '') {
    alert('Please fill in all the required fields: name, email, subject, and details.');
```

6) Sitemap Code:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Sitemap</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      line-height: 1.6;
      background-color: #darkgrey;
    }

    header {
      background-color: #333; /* Dark grey background for the header */
      color: #fff;
      padding: 10px 20px; /* Padding around the header content */
      text-align: center; /* Center aligns the text inside the header */
      width: 95%; /* Set the width of the header */
      margin: 0 auto 20px; /* Center align the header and add margin below */
      margin-top: 20px;
      box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1); /* Optional: Adding a subtle box-shadow */
    }

    footer {
      width: 100%;
      background-color: #333;
      color: #white;
      display: flex;
      align-items: center;
      justify-content: center;
      padding: 1px 1px;
      position: fixed;
      bottom: 0;
      text-align: center;
      box-shadow: 0 -2px 5px rgba(0, 0, 0, 0.1);
    }

    h1 {
      text-align: center;
    }

    .sitemap {
      display: flex;
      justify-content: center;
      margin-top: 20px;
    }

    svg {
      max-width: 100%;
      height: auto;
    }

    .hoverable:hover {
      fill: #lightblue;
      cursor: pointer;
    }

    .hoverable {
      fill: #lightgray;
      stroke: black;
      stroke-width: 1;
    }

    .label {
      text-align: middle;
      font-size: 12px;
    }

    #Website-Logo {
      position: absolute;
      top: 20px;
      left: 16px;
      width: 114px;
      z-index: 1001;
    }

    #Website-Logo2 {
      position: absolute;

```

```

#Website-Logo2 {
    position: absolute;
    top: 20px;
    right: 20px;
    width: 117px;
    z-index: 1001;
}
</style>
</head>
<body>
<header>
<h1>My Sitemap</h1>


</header>
<div class="sitemap">
<svg width="600" height="400">
    <!-- Home Page -->
    <a href="mainpage.html">
        <rect x="250" y="20" width="100" height="50" class="hoverable"></rect>
        <text x="300" y="45" class="label">Main Page</text>
    </a>
    <!-- CV Page -->
    <a href="cv.html">
        <rect x="100" y="100" width="100" height="50" class="hoverable"></rect>
        <text x="150" y="125" class="label">Page to CV</text>
    </a>
    <!-- Ideal Job Page -->
    <a href="idealjob.html">
        <rect x="250" y="100" width="100" height="50" class="hoverable"></rect>
        <text x="300" y="125" class="label">My Ideal Job</text>
    </a>
    <!-- Query Form Page -->
    <a href="queryform.html">
        <rect x="400" y="100" width="100" height="50" class="hoverable"></rect>
        <text x="450" y="125" class="label">Query Form</text>
    </a>
    <!-- Sitemap Page -->
    <a href="sitemap.html">
        <rect x="250" y="180" width="100" height="50" class="hoverable"></rect>
        <text x="300" y="205" class="label">My Sitemap</text>
    </a>
    <!-- Lines connecting the boxes -->
    <line x1="300" y1="70" x2="150" y2="100" stroke="black" stroke-width="1"></line>
    <line x1="300" y1="70" x2="300" y2="100" stroke="black" stroke-width="1"></line>
    <line x1="300" y1="70" x2="450" y2="100" stroke="black" stroke-width="1"></line>
    <line x1="300" y1="150" x2="300" y2="180" stroke="black" stroke-width="1"></line>
    </svg>
</div>
<footer>
<p>Contact me at: <a href="mailto:Hamza.hassan.2343@gmail.com">Hamza.hassan.2343@gmail.com</a></p>
</footer>
</body>
</html>

```

Appendix C: Screenshots - Webpage Validation Evidence

1) Presentation.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Presentation Page</title>

  <meta http-equiv="refresh" content="3; url=/Mywebsite/mainpage.html">
  <style>
    body, html {
      margin: 0;
      padding: 0;
      width: 100%;
      height: 100%;
      display: flex;
```

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

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.     <meta name="viewport" content="width=device-width initial-scale=1 0">↵
```

2)Mainpage.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Main Page</title>
  <style>
    body, html {
      margin: 0;
      padding: 0;
      width: 100%;
      height: 100%;
      font-family: Arial, sans-serif;
      display: flex;
      flex-direction: column;
```

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

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.   <meta name="viewport" content="width=device-width, initial-scale=1.0">␣
6.   <title>Main Page</title>␣
7. </head>␣
8. <body>␣
9.   <div>␣
10.     <div>␣
11.       <div>␣

```

3)Cv.html:

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

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.   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6.   <title> Hamza Hassan CV</title>
7.   <style>
8.     body {
9.       font-family: Arial, sans-serif;
10.      margin: 0;
11.      padding: 20px;

```

4) Ideal Job:

Showing results for contents of text-input area

Checker Input

Show ☒ source ☐ outline ☐ image report [Options...](#)

Check by text input ☐ CSS

Check

Use the Message Filtering button below to display options for hiding/showing particular messages, and to see total counts of errors and warnings.

Message Filtering

Document checking completed. No errors or warnings to show.

Source

1. `<!DOCTYPE html>`
2. `<html lang="en">`
3. `<head>`

5) Query form:

Showing results for contents of text-input area

Checker Input

Show

☒ source
 ☐ outline
 ☐ image report

Options...

Check by

text input

CSS

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Ideal Job</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 20px;
      padding-top: 20px;
      line-height: 1.6;
      background-color: darkgrey;
    }
  
```

Check

Use the Message Filtering button below to display options for hiding/showing particular messages, and to see total counts of errors and warnings.

Message Filtering

Document checking completed. No errors or warnings to show.

Source

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>

6) Sitemap:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>My Sitemap</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

line-height: 1.6;

background-color: darkgrey;

}

Check

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

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. <meta name="viewport" content="width=device-width, initial-scale=1.0">
6. <title>My Sitemap</title>
7. <style>
8. body {
9. font-family: Arial, sans-serif;
10. margin: 0;
11. padding: 0;
12. line-height: 1.6;