WPE Week 3 Lab Activity

Using the lab computers update your week 2 webpage to include multimedia html elements.

Overview of Multimedia HTML elements

HTML offers several multimedia elements such as audio (sound or music), images, videos and animations. Apart of learning the tags or multimedia elements, a web developer must know file extensions and formats to properly incorporate into your website.

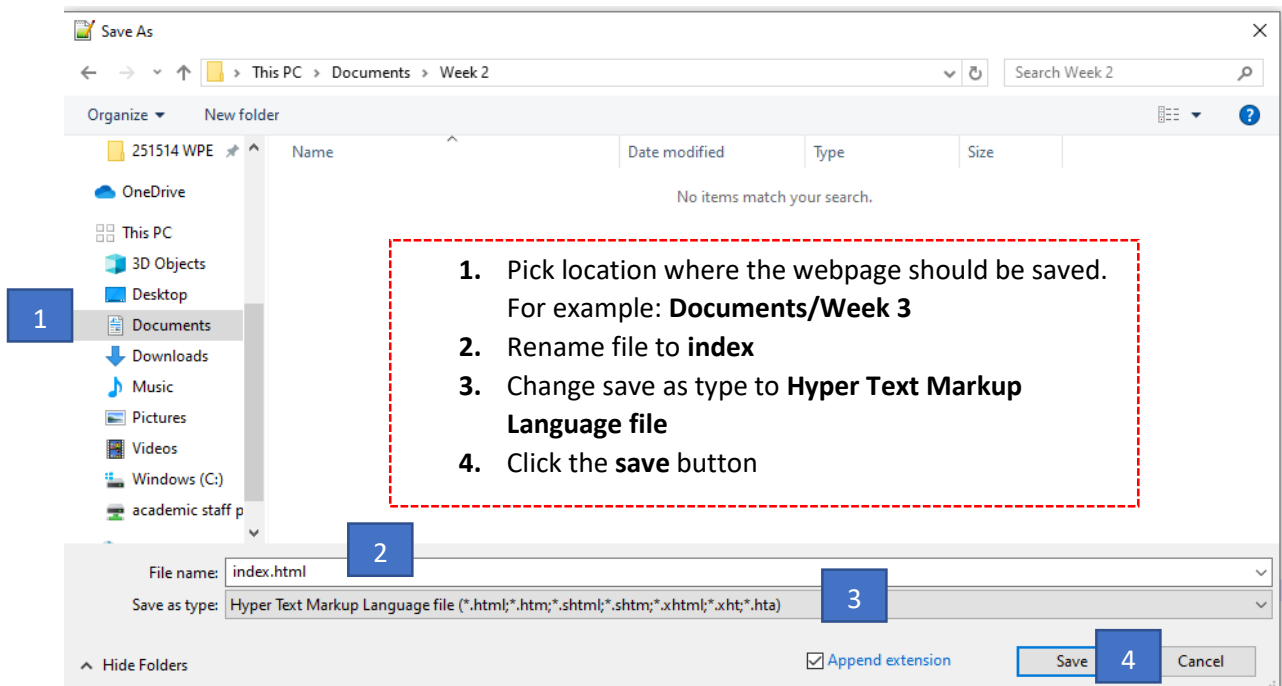| Multimedia name	HTML tag
Audio	<**audio** controls> <source src="[filename].[file format]" type="audio/[file format]">Your browser does not support the audio element. </**audio**>
Video	<**video** width="320" height="240" controls> <source src="[filename].[file format]" type="video/[file format]"> Your browser does not support the video tag. </**video**>
Image	<**img** src="[filename].[file format]" alt="Description of image" height= "[size]" width="[size]">
Note: [ ] indicates you change value to match your multimedia element properties. Audio example: <audio controls><source src = "Madang_Hits.mp3" type="audio/mp3"></audio>	

Figure 1: Example of elements created

Step 1: Using Notepad++, create a new file and type your html tags into the text editor. **Change name, gender and regions of origin to your own details.**

*new 1 - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

new 1

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Home page</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
    <h1>Home page</h1>
    <hr>

    <p><b>Name</b> Jerome</p>

    <ul>
        <li>Gender: Male</li>
        <li>Region of origin: NGI/Momase/Highlands</li>
    </ul>

    <h2>Madang flag</h2>
    <img src="Madang.png" alt="Madang-flag"/>
    <br>

    <h3>Madang hits</h3>
    <audio controls>
        <source src="Demas Saul - Madang.mp3" type="audio/mpeg">Your browser does not support the audio element.
    </audio>
    <br>

    <h3>Madang Video</h3>
    <video width="320" height="240" controls>
        <source src="panu.mp4" type="video/mp4"> Your browser does not support the video tag.
    </video>

    <!-- this is a comment -->
    <hr>
    <h2>Link to websites</h2>
    <a href="education.html">Education history</a>
    <a href="https://www.iti.ac.pg">Visit ITI's Website</a>
</body>
</html>
```

Step 2: Go to file/save to save your webpage as index.html. IMPORTANT: webpage in a location where you can access and open it.


Inside the dialog callout box:

1. Pick location where the webpage should be saved. For example: **Documents/Week 3**
2. Rename file to **index**
3. Change save as type to **Hyper Text Markup Language file**
4. Click the **save** button

File name: index.html

Save as type: Hyper Text Markup Language file (*.html;*.htm;*.shtml;*.shtm;*.xhtml;*.xht;*.hta)

Step 3: After saving, your notepad++ editor should display like this.


```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Home page</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>
    <h1>Home page</h1>
    <hr>

    <p><b>Name</b> Jerome</p>

    <ul>
        <li>Gender: Male</li>
        <li>Region of origin: NGI/Momase/Highlands</li>
    </ul>

    <h2>Madang flag</h2>
    <img src="Madang.png" alt="Madang-flag"/>
    <br>

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    <audio controls>
        <source src="Demas Saul - Madang.mp3" type="audio/mpeg">Your browser does not support the audio element.
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    <h3>Madang Video</h3>
    <video width="320" height="240" controls>
        <source src="panu.mp4" type="video/mp4"> Your browser does not support the video tag.
    </video>

    <!-- this is a comment -->
    <hr>
    <h2>Link to websites</h2>
    <a href="education.html">Education history</a>
    <a href="https://www.iti.ac.pg">Visit ITI's Website</a>
</body>
</html>
```

Step 4: Go to where you saved your webpage (Documents/week 2) and open the index.html file in your favourite web browser.
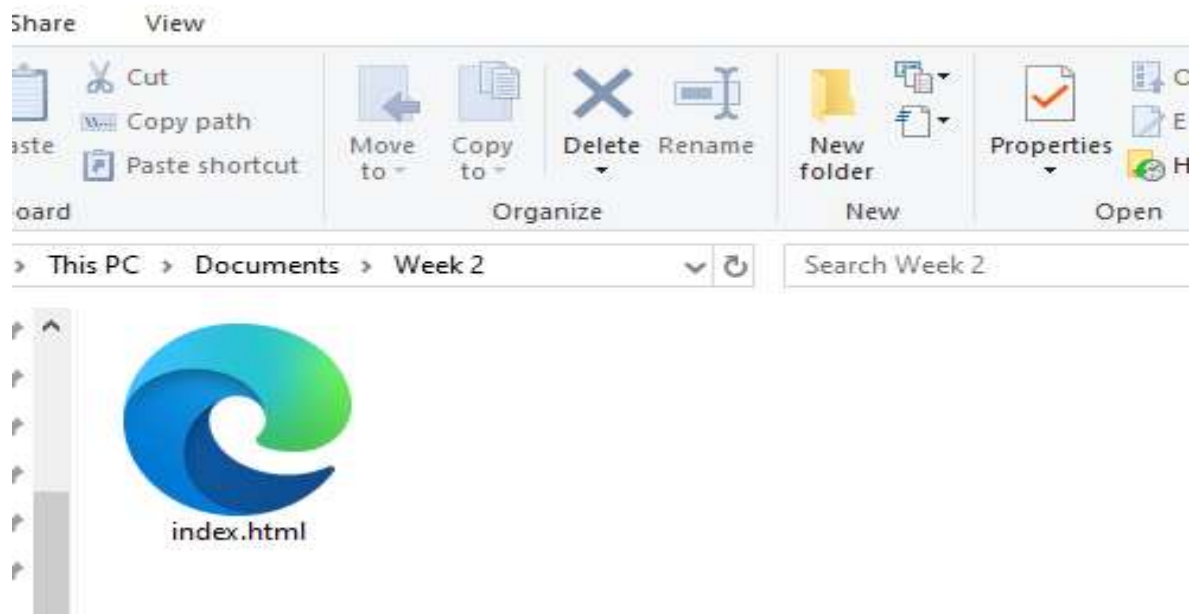
Step 5: Your webpage should now appear as shown in the figure below.
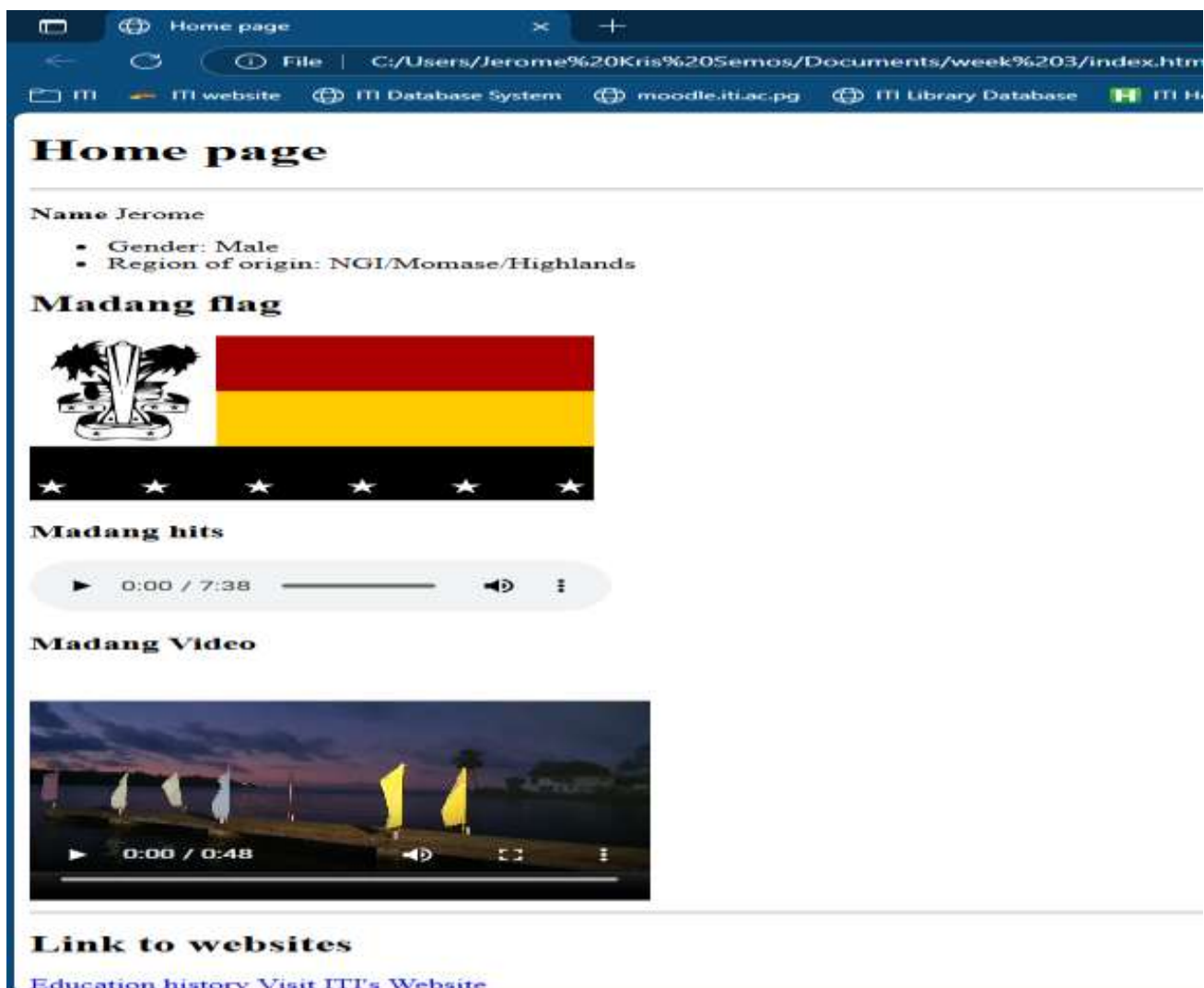
Step 6: Update and save your html document to include the following CSS. Write the CSS syntax after the meta name tag within the head of your HTML document.

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Jerome's Home Page</title>
  <link href="https://fonts.googleapis.com/css2?family=Roboto&display=swap" rel="stylesheet">
  <style>
    body {
      font-family: 'Roboto', sans-serif;
      margin: 0;
      padding: 0;
      background: #f4f4f4;
      color: #333;
    }
    header {
      background: #006699;
      color: white;
      padding: 1rem;
      text-align: center;
    }
    .profile {
      display: flex;
      flex-direction: column;
      align-items: center;
      padding: 1rem;
    }
    .profile img {
      width: 200px;
      border-radius: 50%;
    }
    .info {
      margin-top: 1rem;
    }
    .media {
      padding: 1rem;
      text-align: center;
    }
    .media video, .media audio {
      max-width: 50%;
    }
    footer {
      background: #eee;
      padding: 1rem;
      text-align: center;
    }
    a {
      color: #006699;
      text-decoration: none;
    }
  </style>
</head>
```

Step 7: Update the body of your webpage to include additional layout tags. This is important to section and format the website using HTML & CSS.

```html
<body>
  <header>
    <h1>Welcome, Jerome</h1>
    <p>Gender: Male | Region: NGI / Momase / Highlands</p>
  </header>

  <section class="profile">
    <img src="Madang.png" alt="Madang Flag">
    <div class="info">
      <p><strong>Origin:</strong> Madang</p>
    </div>
  </section>

  <section class="media">
    <h2>Madang Hits</h2>
    <audio controls src="Demas Saul - Madang.mp3"></audio>

    <h2>Madang Video</h2>
    <video controls src="panu.mp4"></video>
  </section>

  <footer>
  <p><a href="education.html">Education history</a></p>
    <p><a href="https://iti.ac.pg">Visit ITI's Website</a></p>
  </footer>
</body>
</html>
```

Step 8: Refresh your webpage in the web browser and see the changes.