Airdrum Kit – Detailed ChatGPT Development Log

Question: How do I make a website for my final project report?

Answer: I recommended using a static website built with HTML and CSS and hosted via GitHub Pages. This approach avoids backend complexity, works on all platforms, and matches the style used by prior ECE4760 projects.

```
<!DOCTYPE html>
<html>
<head>
  <title>Airdrum Kit</title>
</head>
<body>
  <h1>Hello World</h1>
</body>
</html>
```

Question: How do I create HTML and CSS files correctly on macOS?

Answer: I explained how to create plain-text files using TextEdit, convert RTF/TXT files, and ensure proper file extensions so the browser renders them as HTML and CSS.

```
index.html
styles.css
```

Question: How do I add a hero image like the Cornell ECE4760 example?

Answer: I showed how to implement a fullscreen hero section using pure CSS with a background image and overlaid text, followed by a fade-out into the page content.

```
.hero {
  height: 100vh;
  background-image: url("images/airdrum_hero.jpg");
  background-size: cover;
  background-position: center;
  display: flex;
  align-items: center;
  justify-content: center;
  position: relative;
}

.hero::after {
  content: "";
  position: absolute;
  bottom: 0;
  width: 100%;
  height: 180px;
  background: linear-gradient(to bottom, rgba(0,0,0,0), #ffffff);
}
```

Question: How do I add paragraphs, bold text, and images?

Answer: I explained the correct semantic HTML elements for formatting text and embedding figures with captions, which is the preferred style for academic project documentation.

```
<p>This is a paragraph.</p>

<p><strong>Important:</strong> This text is bold.</p>

<figure>
  <img src="images/airdrum.jpg" alt="Airdrum prototype" width="600">
  <figcaption>Figure 1: Airdrum Kit prototype.</figcaption>
</figure>
```

Question: How do I add a Bill of Materials table and vendor links?

Answer: I provided a clean HTML table layout styled with CSS and demonstrated how to embed vendor links directly into the item names.

```
<table class="bom-table">
  <tr>
    <th>Item</th>
    <th>Quantity</th>
    <th>Cost</th>
  </tr>
  <tr>
    <td><a href="https://www.adafruit.com" target="_blank">
      Adafruit BNO085 IMU</a></td>
    <td>2</td>
    <td>$49.90</td>
  </tr>
</table>
```

End of Detailed Chat Log