Full Stack Application Development with MS Azure Cloud

Module 2 – Front-End Development Tools, Technologies and Frameworks

Lab Practical Manual

Unit 1 - HTML5 Fundamentals

Topic: HTML5 - Solved Question

Lab 5: Developing a personal blog website using HTML5. Your blog will cover various details. You want to ensure that your website is well-structured, accessible, and visually appealing. Provide the HTML code for creating the main structure of a blog post, incorporating semantic elements, headings, images, and links.

HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Blog Post</title>
</head>
<body>
    <header>
        <h1>Welcome to My Blog</h1>
        <nav>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">Travel</a></li>
```

```html
            <li><a href="#">Technology</a></li>
            <li><a href="#">Food</a></li>
        </ul>
    </nav>
</header>
<main>
    <article>
        <header>
            <h2>Exploring a Remote Island Paradise</h2>
            <p>Published on <time datetime="2023-08-07">August 7, 2023</time> by <a href="#">Josh Mathew</a></p>
        </header>
        <img src="island.jpg" alt="Beautiful remote island" width="800" height="400">
        <p>Imagine a place where white sandy beaches meet crystal-clear turquoise waters...</p>
        <p>Whether you're an adventure seeker or simply looking to unwind, this remote island paradise...</p>
        <section>
            <h3>Getting There</h3>
            <p>To reach this hidden gem, you'll need to take a small boat...</p>
        </section>
        <section>
            <h3>Activities</h3>
            <p>From snorkeling in vibrant coral reefs to hiking through lush rainforests...</p>
        </section>
        <footer>
            <p>Tags: <a href="#">Travel</a>, <a href="#">Adventure</a>, <a href="#">Island</a></p>
        </footer>
    </article>
```

```
        </main>
        <footer>
            <p>&copy; 2023 My Blog. </p>
        </footer>
    </body>
</html>
```

Output:

Welcome to My Blog

- Home
- Travel
- Technology
- Food

Exploring a Remote Island Paradise

Published on August 7, 2023 by Josh Mathew

Imagine a place where white sandy beaches meet crystal-clear turquoise waters...

Whether you're an adventure seeker or simply looking to unwind, this remote island paradise...

Getting There

To reach this hidden gem, you'll need to take a small boat...

Activities

From snorkeling in vibrant coral reefs to hiking through lush rainforests...

Tags: Travel, Adventure, Island

© 2023 My Blog.

Solved question:

Lab 6: Create a webpage for an upcoming music festival. The webpage needs to display information about the event, including the lineup, schedule, ticket prices, and a contact form for inquiries. Design the HTML structure for the music festival webpage, incorporating appropriate semantic elements, headings, lists, and forms.

HTML code:

```
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Music Festival</title>
</head>
<body>
    <header>
        <h1>Welcome to the Awesome Music Festival</h1>
        <nav>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">Lineup</a></li>
                <li><a href="#">Schedule</a></li>
                <li><a href="#">Tickets</a></li>
                <li><a href="#">Contact</a></li>
            </ul>
        </nav>
    </header>
    <main>
        <section id="lineup">
            <h2>Lineup</h2>
            <ul>
                <li>Artist 1</li>
                <li>Artist 2</li>
                <li>Artist 3</li>
                <!-- Add more artists here -->
            </ul>
        </section>
        <section id="schedule">
            <h2>Schedule</h2>
            <table>
                <tr>
```

```
        <th>Date</th>
        <th>Time</th>
        <th>Performance</th>
      </tr>
      <tr>
        <td>Day 1</td>
        <td>5:30 PM</td>
        <td>Artist 1</td>
      </tr>
      <tr>
        <td>Day 2</td>
        <td>7:30 PM</td>
        <td>Artist 2</td>
      </tr>
      <!-- Add more schedule entries here -->
    </table>
  </section>
  <section id="tickets">
    <h2>Tickets</h2>
    <p>Ticket prices:</p>
    <ul>
      <li>Single Day Pass: $50</li>
      <li>Weekend Pass: $80</li>
      <li>VIP Pass: $120</li>
    </ul>
  </section>
  <section id="contact">
    <h2>Contact Us</h2>
    <form action="submit_form.php" method="post">
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required><br>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required><br>
```

```
            <label for="message">Message:</label>
            <textarea id="message" name="message"
required></textarea><br>
            <button type="submit">Submit</button>
         </form>
       </section>
     </main>
     <footer>
        <p>&copy; 2023 Awesome Music Festival. </p>
     </footer>
  </body>
</html>
```

Output:

Unsolved Question

Lab 7: Develop a personal portfolio website to showcase your skills, projects, and contact information. Design the HTML structure for the portfolio webpage, incorporating semantic elements, headings, images, links, and a downloadable resume.