

Full Stack Application Development with Cloud Computing

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

Lab - 3

Unit 1 - HTML5 Fundamentals

Topic: HTML5

Ex. 1: 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>
```

```

        <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>
        
        <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.

Ex. 2: 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">
<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>
    </form>
</section>

```

```

<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:

Welcome to the Awesome Music Festival

- [Home](#)
- [Lineup](#)
- [Schedule](#)
- [Tickets](#)
- [Contact](#)

Lineup

- Artist 1
- Artist 2
- Artist 3

Schedule

Date	Time	Performance
Day 1	5:30 PM	Artist 1
Day 2	7:30 PM	Artist 2

Tickets

Ticket prices:

- Single Day Pass: \$50
- Weekend Pass: \$80
- VIP Pass: \$120

Contact Us

Name:

Email:

Message:

© 2023 Awesome Music Festival.

Practice Question

Ex. 3: 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.