HTML Lab Manual

1. Introduction

HTML (HyperText Markup Language) is the standard language for creating web pages. This lab manual is designed to provide hands-on practice with HTML elements, structure, and best practices.

By the end of this lab course, students should be able to:

- Structure a basic web page

- Use HTML elements effectively

- Design forms, tables, lists, and embed media

- Create links and manage navigation

2. Lab Requirements

- A computer with a text editor installed (e.g., VS Code, Sublime Text, Atom, Notepad++)

- Modern web browser (e.g., Chrome, Firefox)

- Basic knowledge of computer file systems

3. Lab Setup Instructions

1. Create a working folder, e.g., 'html_lab/'

2. For each experiment, create a new '.html' file.

3. Save your work frequently.

4. Open your HTML files in a browser to test.

4. Experiments

Experiment 1: Basic HTML Structure

```
<!DOCTYPE html>
<html>
<head>
    <title>My First Web Page</title>
```

```
</head>
<body>
    <h1>Welcome to My Page</h1>
    <p>This is my first paragraph.</p>
    <p>This is another paragraph with a line break.<br>See how it works!</p>
</body>
</html>
```

Experiment 2: Lists in HTML

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML Lists</title>
</head>
<body>
    <h2>Ordered List</h2>
    <ol>
        <li>First Item</li>
        <li>Second Item</li>
        <li>Third Item</li>
    </ol>

    <h2>Unordered List</h2>
    <ul>
        <li>Apple</li>
        <li>Banana</li>
        <li>Cherry</li>
    </ul>
</body>
</html>
```

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Experiment 3: Creating Links and Images

```html
<!DOCTYPE html>
<html>
<head>
  <title>Links and Images</title>
</head>
<body>
  <h1>My Favorite Website</h1>
  <a href="https://www.Google.com" target="_blank">Visit Google</a>

  <h1>My Favorite Image</h1>
  <img src="image.jpg" alt="A beautiful scenery" width="300">
</body>
</html>
```

Experiment 4: Creating Tables

```html
<!DOCTYPE html>
<html>
<head>
  <title>HTML Tables</title>
</head>
<body>
  <h1>Student Marks</h1>
  <table border="1">
    <tr>
      <th>Name</th>
      <th>Subject</th>
      <th>Marks</th>
    </tr>
    <tr>
      <td>John</td>
```

```
      <td>Math</td>

      <td>95</td>

    </tr>

    <tr>

      <td>Jane</td>

      <td>Science</td>

      <td>90</td>

    </tr>

  </table>

</body>

</html>
```

Experiment 5: HTML Forms

```
<!DOCTYPE html>

<html>

<head>

  <title>Simple Form</title>

</head>

<body>

  <h1>Registration Form</h1>

  <form action="/submit">

    Name: <input type="text" name="name"><br><br>

    Email: <input type="email" name="email"><br><br>

    Password: <input type="password" name="password"><br><br>

    Gender:

    <input type="radio" name="gender" value="male"> Male

    <input type="radio" name="gender" value="female"> Female<br><br>

    <input type="submit" value="Register">

  </form>

</body>

</html>
```

Experiment 6: Embedding Multimedia

```html
<!DOCTYPE html>
<html>
<head>
   <title>Media Embedding</title>
</head>
<body>
   <h1>My Favorite Video</h1>
   <video width="320" height="240" controls>
      <source src="video.mp4" type="video/mp4">
      Your browser does not support the video tag.
   </video>

   <h1>My Favorite Song</h1>
   <audio controls>
      <source src="audio.mp3" type="audio/mp3">
      Your browser does not support the audio tag.
   </audio>
</body>
</html>
```

5. Assignments and Exercises

1. Create a Personal Portfolio Web Page

2. Create a Table Showing Your Weekly Schedule

3. Design a Form for Feedback

4. Embed a YouTube Video and a Map

6. References

- MDN Web Docs - HTML (https://developer.mozilla.org/en-US/docs/Web/HTML)

- W3Schools - HTML Tutorial (https://www.w3schools.com/html/)