

Session 2: HTML Lists, Tables, and Forms

Session Duration: 1.5 Hours

Learning Objectives:

- Understand how to create and structure HTML lists (ordered and unordered).
 - Build tables with headers, rows, and columns in HTML.
 - Develop basic HTML forms with input fields, text areas, dropdowns, and submit buttons.
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Session Outline:

1. HTML Lists

- **Explanation:**
 - HTML lists are used to display items in a structured format.
 - Types of lists:
 - **Unordered List (``):** Displays items in bullet points.
 - **Ordered List (``):** Displays items in a numbered sequence.
 - **List Items (``):** Defines individual list elements within `` or ``.
- **Examples:**
 - Show a sample unordered list for favorite colors and an ordered list for a "To-Do" list.
- **Student Task:**
 - Create two lists:
 - An unordered list of favorite foods.

- An ordered list of steps in a simple daily routine.
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2. HTML Tables

- **Explanation:**

- HTML tables are used to display tabular data in rows and columns.
- Key elements:
 - `<table>`: Defines the table.
 - `<tr>`: Table rows.
 - `<td>`: Table data cells.
 - `<th>`: Table headers, which typically appear bold and centered.
 - **Styling with Attributes:** Add attributes like `border`, `cellpadding`, and `cellspacing` to style tables.

- **Examples:**

- Create a table with columns for "Name," "Age," and "Country."
- Add headers and style the table with a border attribute.

- **Student Task:**

- Build a table with headers for a "Class Schedule" that includes the columns: "Day," "Subject," and "Time."
 - Add a border to the table to make it visually distinct.
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3. HTML Forms

- **Explanation:**

- HTML forms are used to collect user input on a webpage.
- Form Elements:
 - `<form>`: The form tag, which includes attributes such as `action` (where to send form data) and `method` (how data is sent).
 - `<input type="text">`: A basic text input field.

- `<textarea>` : For multi-line text input.
- `<select>` with `<option>` : Dropdown menus for selecting options.
- `<button type="submit">` : Button to submit the form data.

- **Examples:**

- Demonstrate a simple form structure with text input, textarea, dropdown, and submit button.

- **Student Task:**

- Create a basic "Contact Us" form that includes:
 - A text input for "Name."
 - A textarea for "Message."
 - A dropdown for "Subject" with options like "Inquiry," "Support," and "Feedback."
 - A submit button to send the form.

Detailed Notes and Examples:

HTML Lists

Unordered List:

```
html
Copy code
<ul>
  <li>Apple</li>
  <li>Banana</li>
  <li>Cherry</li>
</ul>
```

Ordered List:

html

Copy code

```
<ol>
  <li>Wake up</li>
  <li>Brush teeth</li>
  <li>Have breakfast</li>
</ol>
```

HTML Tables

- **Basic Table Structure:**

html

Copy code

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Age</th>
    <th>Country</th>
  </tr>
  <tr>
    <td>Alice</td>
    <td>25</td>
    <td>USA</td>
  </tr>
  <tr>
    <td>Bob</td>
    <td>30</td>
    <td>Canada</td>
  </tr>
</table>
```

HTML Forms

- **Basic Form Structure:**

html

Copy code

```
<form action="/submit" method="post">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name"><br><br>

  <label for="message">Message:</label><br>
  <textarea id="message" name="message" rows="4" cols="50"></textarea><br><br>

  <label for="subject">Subject:</label>
  <select id="subject" name="subject">
    <option value="inquiry">Inquiry</option>
    <option value="support">Support</option>
    <option value="feedback">Feedback</option>
  </select><br><br>

  <button type="submit">Submit</button>
</form>
```