Lists, Tables, and Forms

Web Development Essentials - Session 3

Session Overview

Learning Goals for Today:

- Learn how to create different types of lists in HTML
- Understand how to structure data using HTML tables
- Build interactive forms for user input
- Apply HTML best practices for accessibility and usability

Lists in HTML

Unordered Lists ():

Bulleted lists

Item 1
Item 2

Ordered Lists ():

• Numbered lists

First item
Second item

Description List (<dl>, <dt>, <dd>):

• Used for term/description pairs

<dl>
<dd>HTML</dt>
<dd>A markup language for creating web pages</dd>
</dl>

Nesting Lists

Nesting Lists:

• Lists can be nested inside one another (unordered or ordered)

	
First item	
	
Sub-item	
Second item	

Tables in HTML

What Are Tables?

• Used for displaying tabular data in rows and columns

: Wraps the entire table

<: Defines a table row</tr>

>: Defines a header cell

: Defines a data cell

Heading 1
Heading 2
Data 1
Data 2

Adding Table Borders and Captions

Table Borders:

• To add borders, use CSS or the border attribute

Table Captions:

• Add a caption for context

<caption>Monthly Sales Report</caption>

Month

Sales

<table< th=""><th><pre>style="border:</pre></th><th>1px</th><th>solid</th><th><pre>black;"></pre></th><th></th></table<>	<pre>style="border:</pre>	1px	solid	<pre>black;"></pre>	
<th< td=""><td>>Header 1</td><td></td><td></td><td></td><td></td></th<>	>Header 1				
<th< td=""><td>>Header 2</td><td></td><td></td><td></td><td></td></th<>	>Header 2				
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	•				
<td>2></td> <td></td> <td></td> <td></td> <td></td>	2>				

Spanning Rows and Columns

Merging Cells:

- Rowspan: Merge cells vertically
- Colspan: Merge cells horizontally

```
Merged Row

Merged Row

Cell 2

Cell 3

>Cell 3

>Cell 3
```

Introduction to Forms

What Are Forms?

• Forms collect user input and send it to a server

<form action="/submit" method="POST">
 <label for="name">Name:</label>
 <input type="text" id="name" name="name">
 <input type="submit" value="Submit">
 </form>

<form>: Wraps the entire form

action: Where the form data is sent

method: HTTP method (GET or POST)

Common Form Elements

Text Input: <input type="text">

Email Input: <input type="email">

Password Input: <input type="password">

Submit Button: <input type="submit">

Text Area: <textarea></textarea> (For multi-line text)

<label for="email">Email:</label>

<input type="email" id="email" name="email">

Form Elements: Radio Buttons and Checkboxes

Radio Buttons: <input type="radio"> (Single choice)

<input type="radio" id="male" name="gender" value="male">
<label for="male">Male</label>

Checkboxes: <input type="checkbox"> (Multiple choices)

<input type="checkbox" id="subscribe" name="subscribe" value="yes">
<label for="subscribe">Subscribe to newsletter</label>

Select Dropdown and Buttons

Dropdown Menus:

• <select> tag for multiple options

Buttons:

• <button> for customized buttons

<button type="submit">Submit Form</button>

Hands-On Activity

Goal: Build a webpage with:

- An ordered list () and an unordered list ()
- A table with at least 2 rows and 2 columns
- A form that collects the user's name, email, and a message

Instructions:

- Use your code editor (VS Code)
- Test the form submission locally

Best Practices for Forms

Accessibility:

- Always use <label> elements for form inputs
- Add aria-labels where needed
- Provide helpful error messages and form validation

Security:

- Avoid exposing sensitive information in GET requests
- Use POST for secure form submissions

Summary

What We Learned Today:

- How to create lists (ordered, unordered, and description lists)
- How to structure data with HTML tables
- Building interactive forms for user input

Questions?

Q&A Session

• Any questions before we wrap up?

Thank You & See You in the Next Class!