Module II: Basic web elements

Basic HTML Document Object Model (DOM) and its Components

Author: Pappumoni Bordoloi





TLO-5, TLO-6



✓ Identify the HTML Document Object Model (DOM) and its components.

Session Activity

- ✓ Apply html List, Description List and Data List in web page
- ✓ Apply html various bullets using list
- ✓ Configure other lists with Select and options

Keywords



HTML LIST



The HTML Lists are used to specify lists of information. All lists may contain one or more list elements. There are three different types of HTML lists:

- ✓ Ordered List or Numbered List (ol)
- ✓ Unordered List or Bulleted List (ul)
- ✓ Description List or Definition List (dl)



ORDERED HTML LIST



- ✓ An ordered list starts with the tag. Each list item starts with the tag.
- ✓ The list items will be marked with numbers by default:

<!DOCTYPE html> <html> <body> <h3> Q1. List of the Web Development Languages </h3> HTML CSS PHP </body> </bd> </body> </bd>

Output

Q1. List of the Web Development Languages

- 1. HTML
- 2. CSS
- 3. PHP

HTML ORDERED LIST



To represent different ordered lists, there are 5 types of attributes in tag.

Type	Description
Type "1"	This is the default type. In this type, the list items are numbered with numbers.
Type "I"	In this type, the list items are numbered with upper case roman numbers.
Type "i"	In this type, the list items are numbered with lower case roman numbers.
Type "A"	In this type, the list items are numbered with upper case letters.
Type "a"	In this type, the list items are numbered with lower case letters.

Example

type="l">
 HTML
 Java
 JavaScript
 SQL

EXPLORE

https://www.geeksforgeeks.org/html-introduction/

HTML tags



HTML Unordered List or Bulleted List displays elements in bulleted format. We can use unordered list where we do not need to display items in any particular order. The HTML ul tag is used for the unordered list. There can be 4 types of bulleted list:

- ✓ Disc
- ✓ Circle
- ✓ Square
- ✓ none

Example:

```
HTMLHTMLJavaJavaJavaScriptSQL
```



https://www.javatpoint.com/html-unordered-list

HTML DESCRIPTION LIST



HTML Description List or Definition List displays elements in definition form like in dictionary. The <dl>, <dt> and <dd> tags are used to define description list. The 3 HTML description list tags are given below:

- ✓ <dl> tag defines the description list.
- ✓ <dt> tag defines data term.
- ✓ <dd> tag defines data definition (description).

```
<dl>
    <dt>HTML</dt>
    <dd>
        <dt>HTML</dt>
    <dd>
        <dd>
```

EXPLORE

https://www.javatpoint.com/html-description-list

HTML TABLE



- ✓ **HTML table tag** is used to display data in tabular form (row, column). There can be many columns in a row.
- ✓ We can create a table to display data in tabular form, using element, with the help of , , and <te> elements.
- ✓ In Each table, table row is defined by tag, table header is defined by , and table data is defined by tags.

1 header	1 header	1 header
1 data	1 data	1 data
2 data	2 data	2 data
3 data	3 data	3 data

EXPLORE

https://www.javatpoint.com/html-table

DataList



The <datalist> tag specifies a list of pre-defined options for an <input> element.

The <datalist> tag is used to provide an
"autocomplete" feature for <input> elements. Users
will see a drop-down list of pre-defined options as
they input data.

The <datalist> element's id attribute must be equal to the <input> element's list attribute (this binds them together).

EXPLORE

HTML datalist Tag (w3schools.com)

Select and Option



☐ The <select> element is used to create a drop-down list.

- ☐ The <select> element is most often used in a form, to collect user input.
- ☐ The name attribute is needed to reference the form data after the form is submitted (if you omit the name attribute, no data from the drop-down list will be submitted).
- ☐ The id attribute is needed to associate the drop-down list with a label.
- ☐ The <option> tags inside the <select> element define the available options in the drop-down list.

EXPLORE

HTML select tag (w3schools.com)

Option Group



- ☐ The <optgroup> tag is used to group related options in a <select> element (drop-down list).
- ☐ If you have a long list of options, groups of related options are easier to handle for a user.



HTML optgroup tag (w3schools.com)

Option Group



```
<form action="/action_page.php" method="get">
  <label for="fname">First name:</label>
  <input type="text" id="fname" name="fname"><br>
  <label for="lname">Last name:</label>
  <input type="text" id="lname" name="lname"><br>
  <input type="submit" value="Submit">
  </form</pre>
```

- ☐ The <form> tag is used to create an HTML form for user input.
- ☐ The <form> element can contain one or more Input elements:

EXPLORE

HTML form tag (w3schools.com)

Practical Task for Lab



Implement the below task using html Lists.

- 1. Make Nutritional Value based on Vitamins using Description List and also format the data in the Web page with various colors and other formatting elements.
- 2. Implement a time table as given in the last week task with all required formatting but in case of hard code of Periods and times, at the same place put selection or Datalist based dropdowns to choose available courses which are mention below the time table.



Reference



- 1. https://www.javatpoint.com/html-unordered-list
- 2. https://www.javatpoint.com/html-description-list



