

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Title: Using HTML tags to create Lists

WEB PROGRAMMING LAB
CSE 302



GREEN UNIVERSITY OF BANGLADESH

1 Objective(s)

- What are unordered and ordered HTML Lists?
- Reinforce our understanding of unordered lists through creation
- Introduce the ordered list tag
- Reinforce our understanding of ordered lists through creation

2 Problem analysis

Many HTML tags behave in unique ways. Some apply automatic styling, like p tags that create margins around text. Some, like the header tags, increase the font size. Using these tags delineates our content. When reading HTML, using the correct tags informs us of what the content's purpose is. If we see an h1 tag, we know that we're looking at a big page header. In this lesson, we're going to be looking at a few new tags that help us organize lists of related content.

Using the built in ul, ol and li HTML tags however, we can group related list content together. We call such a grouping a "list."

- In HTML, we create lists using the tag, which stands for unordered list, along with the tag for each list item.
- To make a list, we write out the opening and closing tags, and inside them, we'll add tags, each listing a single ingredient.
- If we wanted convert it to a list, it would look like, instead of just having each item show up on a new line, the content will also be slightly indented and a bullet will appear next to each of them.
- In situations where we want items to be displayed in a specific, numbered order, we will want to use the ordered list tag, which is written as instead of . Both use tags inside, but this time, will display a numbered list instead of bullets.

3 Implementation in HTML

```
<!DOCTYPE html>
2
   <html lang="en">
   <head>
3
      <meta charset="UTF-8">
4
5
      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7
      <title>List Eeperiment</title>
   </head>
8
9
   <body>
10
      <h2>Unorder List Example: </h2>
11
12
        <111>
          Ham and Cheese
13
          Grilled Cheese
14
          Nacho Cheese French Fries
15
16
          Cheese soup
17
          Cheese and crackers
          Sushi
18
        19
20
21
      <h2>Order List Example:</h2>
22
        <01>
          Grilled Cheese
23
24
          Sushi
```

```
25
        Cheese and crackers
26
        Cheese soup
27
        Nacho Cheese French Fries
      28
29
30
    <h3>Nested lists inside of Unorderlists</h3>
31
       <l
32
        Sandwiches
33
      Ham and Cheese
34
        Grilled Cheese
35
      36
37
     38
     Snacks
      <l
39
        Nacho Cheese French Fries
40
41
        Cheese and crackers
42
      43
     Soups
44
45
      <l
46
        Cheese soup
47
      48
     Sushi
49
      <111>
50
        Spicy Salmon Rolls
51
52
        California Rolls
53
      54
    55
56
57
   <h3>Nested lists inside of Order lists</h3>
58
   <01>
    Sandwiches
59
60
   Ham and Cheese
61
    Grilled Cheese
62
63
   64
  65
  Snacks
66
   Nacho Cheese French Fries
67
68
    Cheese and crackers
69
   70
71
  Soups
72
73
    Cheese soup
74
  75
  76
  Sushi
77
   Spicy Salmon Rolls
78
79
    California Rolls
80
  81
  82
```

4 Input/Output

Output of the program is given below.

Unorder List Example:

- Ham and Cheese
- Grilled Cheese
- · Nacho Cheese French Fries
- Cheese soup
- Cheese and crackers
- Sushi

Order List Example:

- 1. Grilled Cheese
- 2. Sushi
- 3. Cheese and crackers
- 4. Cheese soup
- 5. Nacho Cheese French Fries

Nested lists inside of Unorderlists

- Sandwiches
 - · Ham and Cheese
 - · Grilled Cheese
- Snacks
 - · Nacho Cheese French Fries
 - Cheese and crackers
- Soups
 - Cheese soup
- Sushi
 - o Spicy Salmon Rolls
 - California Rolls

Nested lists inside of Order lists

- 1. Sandwiches
 - 1. Ham and Cheese
 - Grilled Cheese
- 2. Snacks
 - Nacho Cheese French Fries
 - 2. Cheese and crackers
- 3. Soups
 - 1. Cheese soup
- 4. Sushi
 - 1. Spicy Salmon Rolls
 - 2. California Rolls

Figure 1: Unorder, order and nested list item using HTML

5 Discussion & Conclusion

Lists in HTML are useful for organizing related content. In basic html, they're our go-to way to indicate that content is related. Using unordered lists is useful for more than just listing favorite foods. For example, we can use list elements to organize navigation links, like in a menu bar. With styling, we can remove the bullets, make

items line up horizontally, and make the list 'look good'. In our HTML, the list will be organized and easy to read.

6 Lab Task (Please implement yourself and show the output to the instructor)

Now students are requested to develop a web-page using notepad++ and HTML tags for lists and submit a lab report

6.1 Problem analysis

By default, the list items in an ordered list begin with a number. To change the way list items are numbered, <0l> tag has an attribute "type", through which list items can have numbers, roman numerals, or alphabets. The type attribute has defined values which are shown below:

1 - Numbers (1, 2, 3, 4, 5, 6....)
a - Lowercase Alphabets (a, b, c, ...)
A - Uppercase Alphabets (A, B, C, ...)
i - Lowercase Roman Numerals (i, ii, iii, iv,)

• I – Uppercase Roman Numerals (I, II, III, IV,)

6.2 Sample output

a. Dhaka b. Khulna c. Chittagong d. Cox's Bazar Ordered List Tag with Type Attribute Upper Case Alphabets A. Dhaka B. Khulna C. Chittagong D. Cox's Bazar Ordered List Tag with Type Attribute Upper Case Roman i. Dhaka iii. Khulna iii. Chittagong iv. Cox's Bazar Ordered List Tag with Type Attribute Lower Case Roman I. Dhaka II. Khulna III. Chittagong IV. Cox's Bazar

This is the demonstration of Definition List

AP Dhaka
KA Khulna
TS Chittagong
UP Cox's Bazar

5. Khulna 1. Chittagong 2. Cox's Bazar

Figure 2: Sample list

This is the demonstration of Ordered List where the List Items starts with 4

7 Lab Exercise (Submit as a report)

- Implement type attribute using HTML.
- \bullet Implement definition list using HTML

8 Policy

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