Web Technology (KCS-602)
Unit 2

Prepared By

Abhishek Kesharwani

Assistant Professor,UCER Naini,Allahabad

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What is HTML?

- HTML stands for **H**yper **T**ext **M**arkup **L**anguage
- HTML is a **markup** language
- A markup language is a set of markup **tags**
- The tags **describe** document content
- HTML documents contain HTML **tags** and plain **text**
- HTML documents are also called **web pages**

HTML Basic Structure

```
<!DOCTYPE html>
  <html>

  <head>This is header Part</head>
  <body>

  <h1>My First Heading</h1>

  <p>My first paragraph.</p>

  </body>
  </html>
```

- The DOCTYPE declaration defines the document type. The <!DOCTYPE> declaration helps the browser to display a web page correctly.
- The text between <html> and </html> describes the web page
- The text between <body> and </body> is the visible page content
- The text between <h1> and </h1> is displayed as a heading
- The text between <p> and </p> is displayed as a paragraph

The <!DOCTYPE> Declaration

The <!DOCTYPE> declaration helps the browser to display a web page correctly.

There are many different documents on the web, and a browser can only display an HTML page 100% correctly if it knows the HTML type and version used.

HTML Attributes

- HTML elements can have **attributes**
- Attributes provide **additional information** about an element
- Attributes are always specified in **the start tag**
- Attributes come in name/value pairs like: **name="value"**

HTML Headings

- Headings are defined with the <h1> to <h6> tags.

- <h1> defines the most important heading. <h6> defines the least important heading.

<h1>This is a heading</h1>
<h2>This is a heading</h2>
<h3>This is a heading</h3>

HTML Lines

The <hr>tag creates a horizontal line in an HTML page.

The hr element can be used to separate content:

HTML Paragraphs

HTML documents are divided into paragraphs.

Paragraphs are defined with the <p> tag.

<p>This is a paragraph</p>
<p>This is another paragraph</p>

HTML Line Breaks

Use the <br> tag if you want a line break (a new line) without starting a new paragraph:

HTML <head>

- The <head> element is a container for all the head elements. Elements inside <head> can include scripts, instruct the browser where to find style sheets, provide meta information, and more.

- The following tags can be added to the head section: <title>, <style>, <meta>, <link> and <script>.

Semester Questions

- What is HTML (2016-17)

- What do you understand by hyperlinks in HTML? Write mark-up for an image Hyperlink. (2016-17)

HTML Lists

- HTML lists appear in web browsers as bulleted lines of text.

- There are actually three different types of HTML lists,

- unordered lists (bullets)

- ordered lists (numbers)

- definition lists (think: dictionaries).

html - unordered lists

- An unordered list (<ul>) signifies to a web browser that all list items contained inside the <ul> tag should be rendered with a bullet preceding the text.

- The default bullet type for most web browsers is a full disc (black circle), but this can be adjusted using an HTML attribute called *type*.

html - unordered lists

```
<ul>
   <li>Milk</li>
   <li>Toilet Paper</li>
    <li>Cereal</li>
    <li>Bread</li>
 </ul>
```

HTML Unordered List Type

- <ul type="square">
- <ul type="disc">
- <ul type="circle">

type="square"	type="disc"	type="circle"
▪ Milk	• Milk	○ Milk
▪ Toilet Paper	• Toilet Paper	○ Toilet Paper
▪ Cereal	• Cereal	○ Cereal
▪ Bread	• Bread	○ Bread

html - ordered lists

- An ordered list is defined using the <ol> tag, and list items placed inside of an ordered list are preceded with numbers instead of bullets.

- The *start* attribute allows you to further customize an HTML ordered list by setting a new starting digit for the ordered list element.

HTML Numbered List Start Attribute

```
<ol type="a" start="4" >
    <li>Buy Food</li>
    <li>Enroll in College</li>
    <li>Get a Degree</li>
 </ol>
<ol type="a"> <ol type="A">
 <ol type="i"> <ol type="I">
```

html - definition term lists

HTML definition lists (<dl>) are list elements that have a unique array of tags and elements; the resulting listings are similar to those you'd see in a dictionary.

- <dl> - opening clause that defines the start of the list
- <dt> - list item that defines the definition term
- <dd> - definition of the list item

Design the following nested list.

- Fruit
  - Bananas
  - Apples
    - Green
    - Red
  - Pears
- Vegetables
- Meat