3/8/22, 12:39 PM OneNote

Basics of Markup Language

Monday, March 7, 2022 4:18 PM

- HTML defines a set of predefined tags (a.k.a HTML Elements) which is used to create a human visualizable page
- HTML defines a predefined set of tags
 - o Traditionally HTML doesn't allow adding of user defined elements
 - O HTML 5 introduces standard to add user defined elements called WebComponents
- Common Element include
 - o Table (table)
 - To create a table
 - o List
 - Unordered list (ul)
 - Ordered List (ol)
 - o Pragaraph (p)
 - O Horizontal Line (hr)
 - O Line Break (br)
 - O Hyper link (a)
 - To take you from one page to another page or
 - From one part of a page to another part of the same page
 - o Input elements
 - Textbox
 - Checkbox
 - Radiobutton
 - Combobox
 - Text Area
 - Button
 - Document structuring elements
 - Html
 - The top most item
 - Head
 - The meta information section
 - · Generally not displayed on the bage
 - Body
 - The main visible part of the page
 - Div
 - A logical group of element we wrap in an invisible rectangular divison
 - Section
 - Like a div. can be used to represent any logical section
 - Header
 - Like a div usually used for representing web site header area
 - Footer
 - Line a div usually used for representing web site footer area

Document Structure

- A document typically follows tree structure
- An HTML element can contain another HTML element
- An Example for structure would be
- HTML
 - o Head
 - Title

3/8/22, 12:39 PM OneNote

- o Body
 - Header
 - H1 (Heading)
 - List of Naivigation Link
 - Section main content
 - H1 article content
 - Article (containing main text
 - Paragraph 1
 - Paragraph 2
 - Image
 - Paragram 3
 - Hyperlinke to another page
- This structured model is known as Document Object Model (DOM)
 - o A web page is represented by a DOM tree.

Writing a Tag

- There are multiple different Tags and they may follow simple structure
- 1. A Simple Tag without any information

hr (Horizontal Line)

- "hr" tag represent a horizontal line.
- It doesn't need any information
- It can be written as

<hr>

- We write the tag (hr) enclosed in tag marker <>
- All HTML tags must be included this way
- 2. A tag that may contain some children
- A children may be
 - o just a piece of text
 - o Another HTML Element
- To have the children, children must be present between opening and closing tag
- p (Paragraph) or headers like (h1,h2,h3)
- This is a simple paragraph

3/8/22, 12:39 PM OneNote

- Note the design of closing tag.
- It contains an additional forward slash.