HTML Intro

FT-WEB-13

Sprint -1 Day-1

Objectives:

- What is HTML
- HTML elements
- Structure of HTML
- Various HTML tags
- HTML forms
- HTML tables

What is HTML?

HTML stands for HyperText Markup Language.

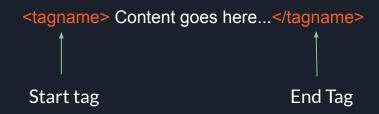
<u>Hyper Text</u>: "Hypertext" refers to links that connect web pages to one another, either within a single website or between websites, allows a user to click a link and be redirected to a new page referenced by that link

<u>Markup</u>: HTML uses "markup" to annotate text, images, and other content for display in a Web browser.

- HTML consists of a series of elements.
- HTML elements tell the browser how to display the content.

What is an HTML Element?

• An HTML element is defined by a start tag, some content, and an end tag:



• The HTML **element** is everything from the start tag to the end tag.

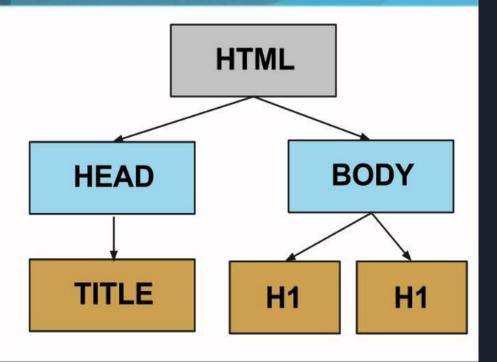
A Simple HTML Document:

```
<!DOCTYPE html>
<html>
<head>
     Info about website (title)
</head>
<body>
     Visible in browser
</body>
</html>
```

- The <!DOCTYPE html> declaration defines the version of HTML document, in this case it
 is 5
- The <html> element is the root element of an HTML page
- The <head> element contains meta information about the HTML page
- The <title> element specifies a title for the HTML page.
- The <body> element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

Tree Structure

```
<!DOCTYPE html>
<html>
   <head>
      <title></title>
   </head>
   <body>
       <h1></h1>
       <h1></h1>
   </body>
</html>
```



<u>HTML Headings</u>

HTML headings are defined with the <h1> to <h6> tags.

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

```
<h1>This is heading 1</h1>
```

<h2>This is heading 2</h2>

<h3>This is heading 3</h3>

<h4>This is heading 4</h4>

<h5>This is heading 5</h5>

<h6>This is heading 6</h6>

HTML Paragraphs

HTML paragraphs are defined with the tag:

Example

Welcome to Masai School.

HTML <a> Tag

The <a> tag defines a hyperlink, which is used to link from one page to another.

href is an *attribute*

Attributes:

- Attributes provide **additional information** about elements
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"

HTML Tag

The tag defines an unordered (bulleted) list.

Use the tag together with the <<u>li></u> tag to create unordered lists.

```
    Mouse
    Keyboard
    Speaker
    Monitor
```

HTML <input> Tag

- The <input> tag specifies an input field where the user can enter data.
- The <input> element can be displayed in several ways, depending on the type attribute.

```
<input type="text"/>
```

HTML Tag

The tag is used to embed an image in an HTML page.

The tag has two required attributes:

- src Specifies the path to the image
- alt Specifies an alternate text for the image, if the image for some reason cannot be displayed

Syntax:

Empty HTML Elements

HTML elements with no content are called empty elements.

The **
tag** defines a line break, and is an empty element without a closing tag:

Example

This is a
br> paragraph with a line break.

 , <image> , <input> are other empty HTML elements

HTML Forms:

The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

<form>

.....form elements

</form>

Syntax

```
<form>
<label for="fname">First name:</label><br>
<input type="text" id="fname" ><br>
<label for="lname">Last name:</label><br>
<input type="text" id="lname" >
</form>
```

The <label> Element

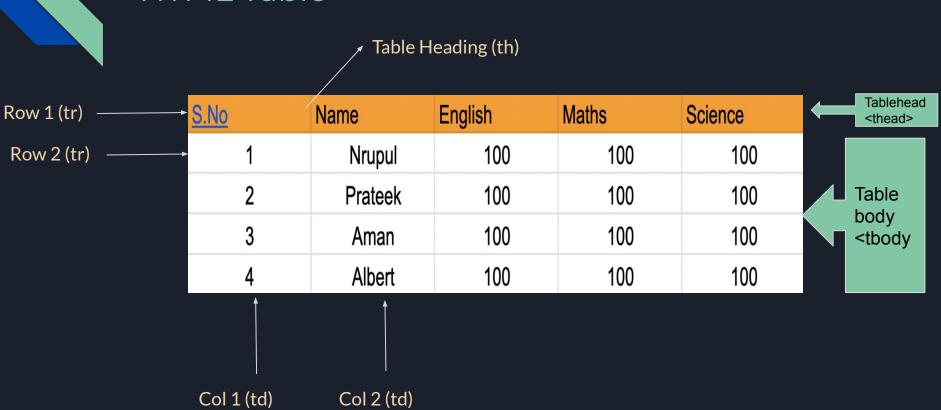
The | abel element is useful for screen-reader users, because the screen-reader will read out loud the label when the user focus on the input element.

The for attribute of the <label> tag should be equal to the id attribute of the <input> element to bind them together.

HTML Table

<u>S.No</u>	Name	English	Maths	Science	—	Tablehead <thead></thead>
1	- Nrupul	100	100	100		
2	Prateek	100	100	100	1	Table
3	Aman	100	100	100	1	body <tbody< th=""></tbody<>
4	Albert	100	100	100		

HTML Table



1	2	3	4	5	6	7	8
2							
3			· ·				
4							
5							
6							
7							
8							12