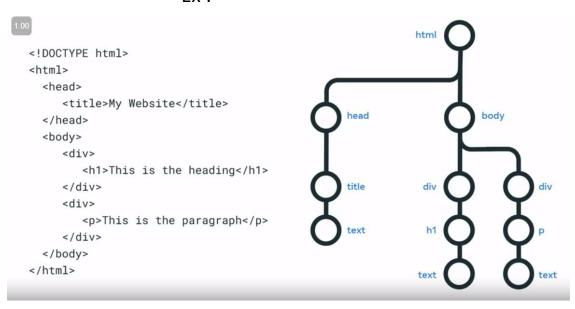
❖ What's the HyperText Markup Language

- HTML is simply a text file with a specific structure that consists of elements and tags
- HTML elements: is where the html code written
 - consists of an opening tag enclosed in angle brackets
 - ✓ EX:
 - Most elements have opening tag and closing tag
 - ✓ EX: this is an example
 - You can also put element inside the other
 - ✓ EX: element
 inside the other
- HTML specifications ruled by World Wide Web Consortium (W3C)
- The current version of html is HTML5
 - The first HTML element which is standard for HTML is <!Doctype html>
 - Emphasize tag (em) usually used for stressing the text contained in them
 - ✓ Ex: I really want ice cream.
 - Italics represent off-set text and should be used for technical terms, titles, a thought or a phrase from another language
 - ✓ Ex: My favourite book is <i>Dracula</i>.
 - Forms are the most used html element
 - > It has many types
 - > It enables user to enter his own data
 - It also used to save this data and send it to the backend to be processed

Introduction to the DOM:

- DOM (Document Object Model) :
 - it is simply a tree, structure or model of the objects in your HTML file
 - it lets the html to interact with JavaScript so it can make a dynamic sites
 - consists of series of object each of it represents the html tags

✓ Ex:



- Dom objects can control the html elements using JavaScript like :
 - o Update the tag or change it
 - Delete it for a particular feature
 - And another related to libraries and frameworks is to animate the html element

❖ Web Accessibility:

 Rule enables people with disabilities to understand navigate and interact with websites

- Created specifications and supportive tools by W3C until it be needed in every web industry
- Provide assistive technology that aid people with disabilities browsing:
 - > Screen Readers
 - > Speech recognition software
 - subtitles and video scripts and videos provide assistance
- problem: the structure of html has a major role in accessibility when you don't use any tag it may affect on the assistive technology
- Solution: The WAI provided one of its tasks is the accessible rich internet application or aria Specification
 - the aria specification outlines different techniques to improve accessibility for complex web apps

CSS Basics :

- CSS consists of five elements :
 - > Declaration block : the content of CSS code
 - Selector: the html element you want to change
 - > Declaration : consists of property and value
 - Property: is the thing you want to add
 - > Value: is the type of property you will add
- Selector can be variant :
 - Element selectors
 - > Id selectors
 - Class selectors
 - Element class selector
 - Descendant selector
 - Child selector
 - Hover pseudo class

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• Colours:

Types :

- By RGB value
 - RGB is a color model that adds the colours red (R), green (G) and blue (B) together to create colours. This is based on how the human eye sees colours.
 - Each value is defined as a number between 0 and 255, representing the intensity of that color.
 - The color black then would be 0,0,0 and the color white 255,255,255.
- o By RGBA value
 - RGBA is an extension of RGB that add an alpha (A) channel. The alpha channel represents the opacity, or transparency, of the color.
- By HSL value
 - Hue, Saturation and lightness
 - The aim of the model is to simplify mental visualization of the color that the value represents.
 - Think of it like a circle
 - Hue is the degree value red is 0 ,green is
 120 and blue is 240
 - Saturation is the distance from the centre to the edge of circle
 - Lightness think of it as a cylinder where the bottom of the shape is black and the top of it is white

- o By hex value
 - Colours being specified by hexadecimal system (0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F)
 - Colours specified using hexadecimal are prefixed with a # symbol followed by the RGB value in hexadecimal format
 - ✓ Ex :#FF0000 =(255,0,0)
- By predefined color names.
 - Easiest color declaration
 - Many web browsers today support 140 predefined color
 - ✓ Ex : red , green , blue , aqua , lime
- Text specification :
 - > Text color
 - > Text font and size
 - > Text transform
 - Text Decoration
- Note: the code explanation for the colour and font in CSS rules file

Box model introduction

- Box model: the way that you tell the browser to display the HTML tags and CSS rules
- Box model consists of four parts
 - > Content: the actual content of the element
 - Padding : extends the content size
 - > Border: goes around the padding and content
 - ➤ Margin : extends the border area to separate the element from its neighbouring elements

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Document flow

- Block Elements:
 - ➤ Block elements are HTML elements that create a block-level box on a web page.
 - ➤ They typically start on a new line and occupy the full width available.
 - ➤ Examples of block elements include <div>, , <h1> to <h6>, , , , and <section>.
 - Block elements can contain other block elements and inline elements.
- Inline Elements:
 - ➤ Inline elements are HTML elements that do not create a new line and only occupy the space they need.
 - > They flow within the text and do not force a line break.
 - Examples of inline elements include , <a>, , , , <input>, and <button>.
 - Inline elements can only contain other inline elements or text but not block elements.

Alignment Basics

- Text alignment: is the way that you change the alignment of element in HTML and it consists of :
 - Centre
 - ➤ Left : the default alignment
 - > Right
 - Justify: spreads the text out so that every line of the text has the same width
- Html alignment :is an alignment built on the document flow and the box model

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