

# Web Development Assignment

## Part 1: Research Task

### 1. CSS units: px , em , rem

#### PX (pixels):

Means the size in normal numbers on the screen.

For example: font-size: 16px means the font size is 16 points.

This number doesn't change even if we change anything around it.

#### Em:

This depends on the size of the "parent" font.

If the font in the parent element is 16px, and we type 1.5em, this means  $16 \times 1.5 = 24\text{px}$ .

#### Rem:

Like em, but instead of relying on the parent element, it takes the number from the parent element (html).

So if we type font-size: 16px in the html, and we type 2rem, this becomes  $16 \times 2 = 32\text{px}$ .

### 2. HTML audio and video tags

#### Audio tag:

The <audio> tag plays an audio file.

We use it with the controls property to display the playback buttons.

#### Video tag:

The <video> tag is used to play a video. We use controls with it, and we can also specify its size.

### 3. What is Web Accessibility and how can we improve it?

“Accessibility” means making our website easy to use for everyone, even those with disabilities (such as visual or hearing impairments, or difficulty using a mouse).

- We write descriptions for images using alt:
- We make the site work from the keyboard, not just the mouse.
- We use attributes like aria-label to describe the function of a button or element:

**<button aria-label="Open menu"> ... </button>**