

DWA_03.4 Knowledge Check_DWA3.1

1. Please show how you applied a Markdown File to a piece of your code.

```
1  # METRONOME
2
3  # About
4
5  This project consists of a simple yet elegant metronome built using JavaScript, the [Web Audio API]
6  (https://developer.mozilla.org/en-US/docs/Web/API/Web\_Audio\_API#web\_audio\_concepts\_and\_usage), and
7  the [Materialize CSS Framework](https://materializecss.com/).
8
9  # Features & How To Use
10
11  - ![Alt text](assets/media/Metronome_Tut_1.gif)
12
13  - Set the desired tempo (as BPM - Beats Per Minute) by either using the input field, slider, or "+"
14  plus" and "-minus" buttons.
15
16  - Once started, the metronome's tempo can be adjusted dynamically whilst playing by simply updating
17  the tempo.
18
19  - The default tempo is 120 BPM, and the metronome can be reset to it's initial state using the
20  "Reset" button.
21
22  - The page theme can be toggled between "LIGHT MODE" and "DARK MODE" with the theme button at the
23  top right.
24
25
26  # Future features to be added
27
28  - Volume control
29
30  - Visualization of the tempo
31
32  - Musical measures
33
34  - Sound frequency control
35
36
37  # How To Run
38
39  💡 Clone the repository
40
41  - Use a local server and browser to open the index.html or, if using VSCode, use the [Live Server
42  Extension](https://marketplace.visualstudio.com/items?itemName=ritwickdey.LiveServer)
```

About

This project consists of a simple yet elegant metronome built using JavaScript, the [Web Audio API](#), and the [Materialize CSS Framework](#).

Features & How To Use



- Set the desired tempo (as BPM - Beats Per Minute) by either using the input field, slider, or "+plus" and "-minus" buttons.
- Once started, the metronome's tempo can be adjusted dynamically whilst playing by simply updating the tempo.
- The default tempo is 120 BPM, and the metronome can be reset to it's initial state using the "Reset" button.
- The page theme can be toggled between "LIGHT MODE" and "DARK MODE" with the theme button at the top right.

2. Please show how you applied JSDoc Comments to a piece of your code.

```

/**
 * @property {Function} generatePreviewHtml - Function that creates and returns
 * HTML for book previews to be appended to the list element.
 *
 * @param {Object} targetObject - Accepts any object literal that
 * contains book information, in this case objects {@link book} from
 * data.js, or once a search form has been submitted, {@link searchResult}
 * from scripts.js .
 *
 * @param {number} rangeStart - Defines where slicing of the targetObject
 * should occur, which is calculated by taking the current {@link page} value
 * and multiplying it by {@link BOOKS_PER_PAGE}
 *
 * @param {number} rangeEnd - Similar to rangeStart but defines where slicing
 * should end.
 *
 * @returns {DocumentFragment} listFragment - Returns the newly created document
 * fragment which can then be appended to the list element.
 */
export const generatePreviewHtml = (targetObject, rangeStart, rangeEnd) => {
  const listFragment = document.createDocumentFragment()
  const extractedBooks = targetObject.slice(rangeStart, rangeEnd)
  for (let { author, image, title, id } of extractedBooks) {
    author = authors[author] // to display the author as a name and not an id

    const preview = document.createElement('div')
    preview.className = 'preview'
    preview.dataset.id = id

    preview.innerHTML = /* html */ `
    

    <div class="preview__info">
      <h3 class="preview__title">${title}</h3>
      <div class="preview__author">${author}</div>
    </div>
    `

    listFragment.appendChild(preview)
  }
  return listFragment
}

```

3. Please show how you applied the @ts-check annotation to a piece of your code.

In this snippet, the second and third parameters of “generatePreviewHtml” should be numbers. Using @ts-check, it shows an error because the second param is a string, and should be a number.

```

// @ts-check
import { generatePreviewHtml, html } from './generators';

generatePreviewHtml(html, "6", 7)

```

Argument of type 'string' is not assignable to parameter of type 'number'. ts(2345)

View Problem (Alt+F8) Quick Fix... (Ctrl+.)

4. As a BONUS, please show how you applied any other concept covered in the 'Documentation' module.

Added a Table of Contents to my README.md using markdown all in one extension:

```
<!-- omit in toc -->
# Book-Connect

Table of Contents (up to date)
- [About](#about)
- [User Stories](#user-stories)
- [Features](#features)
- [Requirements](#requirements)
- [How to use:](#how-to-use)
```
