

DWA_03.4 Knowledge Check_DWA3.1

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

This was done on my readme.md for my capstone project. I capitalized the User Stories, bolded it and also bulleted items beneath it.

```
Preview Code Blame 16 lines (14 loc) · 1.34 KB Raw Copy Download Edit View Source

1 # MICMAT998_BCL2302_GroupJustin_Michelle-Mathuloe_CAPSTONE
2 🌈 Webapp to be audited as part of final assessment for first JS module
3
4 This was a final project for our capstone on Interactive Web Apps, where I had to edit the script.js on VSCode and make the website functional.
5 It took a week to complete and I met most of the requierments.
6 A presentation was also required, which I have included.
7
8 **User Stories**
9 - As a user, I want to view a list of book previews, by title and author, so that I can discover new books to read.
10 - As a user, I want an image associated with all book previews so that I can recognize a book by the cover even if I forgot the name.
11 - As a user, I want to have the option of reading a summary of the book so that I can decide whether I want to read it.
12 - As a user, I want to have the option of seeing the date that a book was published so that I can determine how easy it is to obtain second-hand.
13 - As a user, I want to find books based on specific text phrases so that I don't need to remember the entire title of a book.
14 - As a user, I want to filter books by author so that I can find books to read by authors that I enjoy.
15 - As a user, I want to filter books by genre so that I can find books to read in genres that I enjoy.
16 - As a user, I want to toggle between dark and light modes so that I can use the app comfortably at night.
```

Below is how it shows up on my readme:

```
MichelleMathuloe Update README.md t2d65bf · 1 hour ago 🕒 Histo

Preview Code Blame 16 lines (14 loc) · 1.34 KB Raw Copy Download Edit
```

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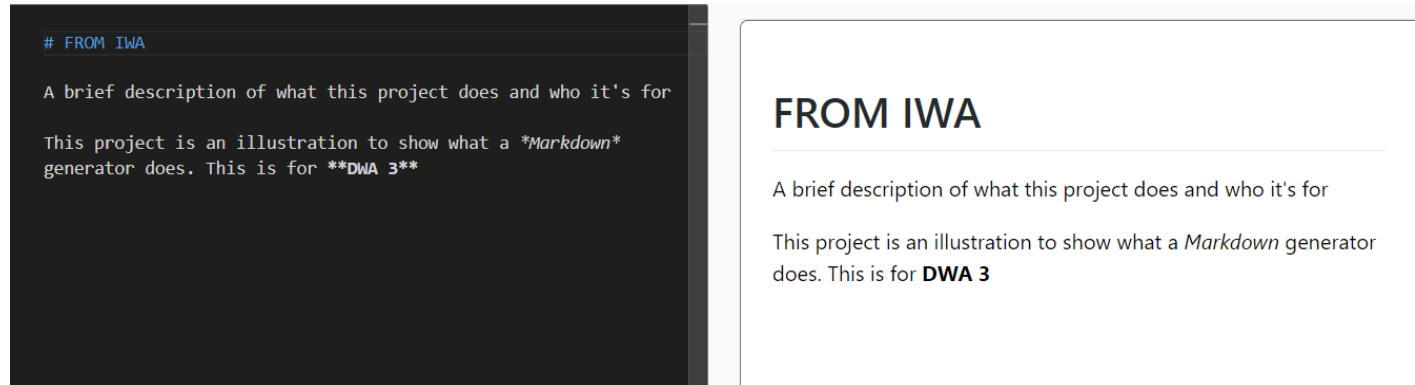
🌈 Webapp to be audited as part of final assessment for first JS module

This was a final project for our capstone on Interactive Web Apps, where I had to edit the script.js on VSCode and make the website functional. It took a week to complete and I met most of the requierments. A presentation was also required, which I have included.

#User Stories

- As a user, I want to view a list of book previews, by title and author, so that I can discover new books to read.
- As a user, I want an image associated with all book previews so that I can recognize a book by the cover even if I forgot the name.
- As a user, I want to have the option of reading a summary of the book so that I can decide whether I want to read it.
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- As a user, I want to find books based on specific text phrases so that I don't need to remember the entire title of a book.
- As a user, I want to filter books by author so that I can find books to read by authors that I enjoy.
- As a user, I want to filter books by genre so that I can find books to read in genres that I enjoy.
- As a user, I want to toggle between dark and light modes so that I can use the app comfortably at night.

I also came across this readme generator, which is downloadable once you have added information:



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

```
/**
 * Event handler for the subtract button.
 */
const subtractHandler = () => {
  const newValue = parseInt(number.value) - STEP_AMOUNT
  number.value = newValue

  if (add.disabled === true) {
    add.disabled = false
  }

  if (newValue <= MIN_NUMBER) {
    subtract.disabled = true
  }
}
```

This was taken from IWA1. I added JSDoc Comments at the top, so that the next person who would read or possibly edit my code would know what it is that I did. It makes the code more understandable, more like a summary or intro of some sort.

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

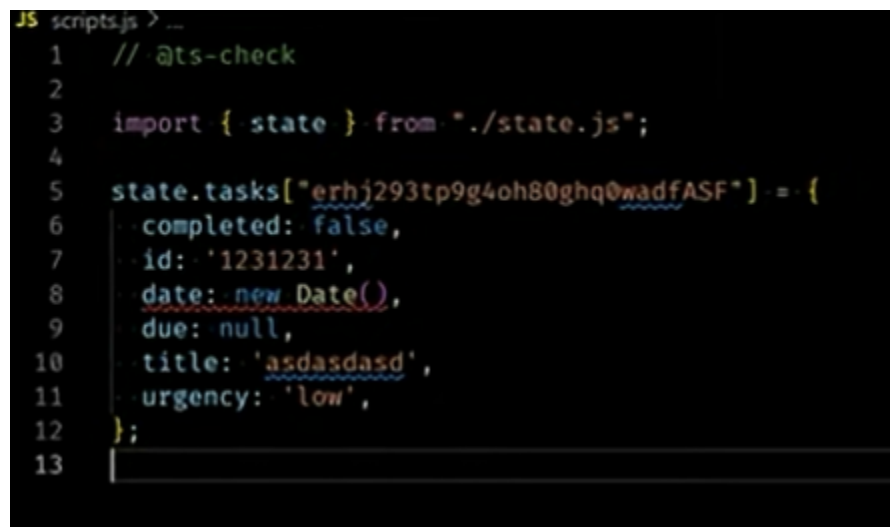
Initially, I did not add it. However I can add it on the first line of the Javascript file. By adding it, I instruct the TypeScript compiler to perform type checking for this file, even though it has a .js extension.

This is how I would add it though:

```
// @ts-check

const MAX_NUMBER = 15;
const MIN_NUMBER = -5;
const STEP_AMOUNT = 5;
```

The reason for this function is that it keeps documentation. Below is an example as used by Schalck which shows the importance of it.



```
JS scripts.js > ...
1 // @ts-check
2
3 import { state } from './state.js';
4
5 state.tasks["erhj293tp9g4oh80ghq0wadfASF"] = {
6   completed: false,
7   id: '1231231',
8   date: new Date(),
9   due: null,
10  title: 'asdasdasd',
11  urgency: 'low',
12 };
13
```

Benefits of @ts:

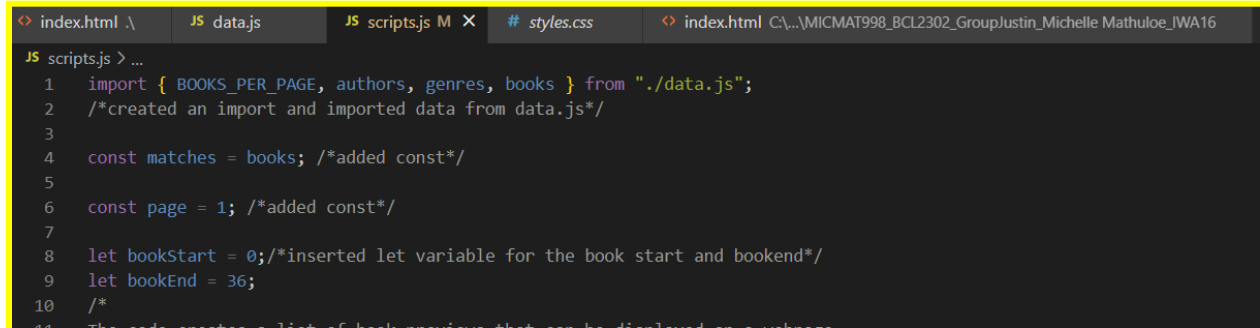
Makes your code follow specific types, while JS doesn't have that feature;

It is easier to understand and update compared to JS;

You can use it to add special annotations;

You can hide complicated details, just like above example

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



The screenshot shows a code editor with several tabs at the top: 'index.html \', 'JS data.js', 'JS scripts.js M X', '# styles.css', and 'index.html C:\...\MICMAT998_BCL2302_GroupJustin_Michelle Mathuloe_IWA16'. The active tab is 'JS scripts.js'. The code in the editor is as follows:

```
JS scripts.js > ...
1  import { BOOKS_PER_PAGE, authors, genres, books } from "./data.js";
2  /*created an import and imported data from data.js*/
3
4  const matches = books; /*added const*/
5
6  const page = 1; /*added const*/
7
8  let bookStart = 0; /*inserted let variable for the book start and bookend*/
9  let bookEnd = 36;
10 /*
11 This code creates a list of book reviews that are displayed on a webpage
```