



IWA19 Final Project

By Noah Sparkes

The Goal

In this app the goal is to load a list of books from a “database” (data.js file) and have the user be able to search for specific books by genre, book title, etc. A preview of each book is also to be provided.

With this in mind some of the groundwork for this functionality had already been provided in the JavaScript files. My job was to fill in the gaps, debug the existing code and make it run smoothly.

Approach to this Project

- Planning & concept grasping- after reading the brief I analysed the current code, made notes where errors where and planned a possible solution.
- Debugging - after the first step, I debug all of the syntax and logical errors (of which a few will be pointed out).
- Solution planning- After some basic debugging I Think about possible ways in which I can line up the logic of the code with what is being asked in the brief/prompt and make the code functional.
- While creating solutions for each problem I prioritize which of these user stories is most important and start working with that one.

Pre-existing code

Pre-existing code had not been defined in properly in certain places - 2 clear examples of this would be:

```
Matches = books
```

```
Page = 1;
```

These 2 array and number variable respectively were missing a 'let' to be correct.

Solution e.g.1

Let page = 1;

Let matches = [...books];

The same code now with an added declaration and proper syntax to function properly

In the case of matches, writing it this way makes sure that any changes made to matches will not affect the original books array, and vice versa.

Example 2

The second example sees to objects being written out for the functionality of the day/night mode on the book app, however this too lacks the necessary declarations to be correct.

```
day = {  
  dark: '10, 10, 20',  
  light: '255, 255, 255',  
}  
night = {  
  dark: '255, 255, 255',  
  light: '10, 10, 20',  
}
```

Solution e.g.2

The solution in this case would be to add the missing “const ” keyword to make this code run.

```
const day = {  
  dark: '10, 10, 20',  
  light: '255, 255, 255',  
}  
const night = {  
  dark: '255, 255, 255',  
  light: '10, 10, 20',  
}
```

Data.js file

Furthermore there were similar minor syntax issues with the initial code in the Data.js file containing the data(objects containing arrays of info on the books, authors etc.) which would have made it difficult to refer back to that source in my updated scripts.js file.

Crucially the data.js file was not exporting the info i needed to my scripts file to use. This had to be set up upon realisation.

Overview of pre-existing code & solutions

Looking at the logic of the initial code it was clear to me that the steps taken were:

- Create a book preview system.
- Display the books via preview.
- Add filters for searching books, genres, authors etc.
- Change/ toggle between light and dark modes for the app for personal preference.

My attempted solutions

My first step after importing the data from `data.js`, was to declare and create variables; `matches`, `isOpen` and `page`.

- `matches`: an array of books that match the user's search criteria, initially set to all books.
- `isOpen`: a boolean indicating whether the settings overlay is open or closed, initially set to `false`.
- `page`: a number representing the current page number of the book list, initially set to 1.

Keeping the night and day objects in the same place with their proper declarations was the next step.

Defining event listeners for the clicking the settings button/icon, submitting the settings form and clicking a book preview in the list was next.- these were particularly tricky to set up as I am no expert in event listeners or setting up this code properly yet.

One of the features that I was able to create which I was pleased with would be the `(dataListShowHandler())` function, which retrieves the current search matches and generates previews to display them on the page.

Issues experienced throughout project

- Initial understanding of how to go about a task this big.
- Getting lost in debugging process.
- Time management.
- JS not having an effect on what's displayed on browser.

Thank you

```
While (Alive) {
```

```
  eat();
```

```
  sleep();
```

```
  code();
```

```
}
```