Book Connect

Book Connect Web App

JavaScript Project by Joshua Twomey
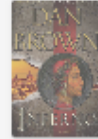
Book Connect

Introduction

- Book Connect was created to have a central database that connects users to their next immersive read which they may have never found previously

- Book Connect currently has a library with over 1000 books, providing all the information you need to choose your next read.

Book Connect

Project Goals

- Display the book title, author and cover image of all books in our database
- Search functionality where users can input their preferences and get an output of books that might interest them
- User gets a more in-depth description when they click on a book
- User can change between Day and Night theme for the website
- Add button shows more books

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Personal Growth while working on this project

- The Functionality I struggled most with and how fixed it:
    - I struggled most with Filtering the display based on criteria users selected on the search overlay. Scenarios that could be selected:
        - User can input Title, Author and Genre
        - User can input any two options
        - User can input just one option

    - My Fix:
        - I added a counter that increases based on the number of fields the user has selected. I then added an If-statement that checks if the counter is not equal to 0. This is so that in the case the user entered nothing the full book list can be displayed

```
let counter = 0;
title ? counter++ : "";
author !== "any" ? counter++ : "";
genre !== "any" ? counter++ : "";

if (counter !== 0) {
```

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- If the user has given input the following code will run after the checks have been done for if the genre, author or title matches any book in the Array.

- First, I wrote code to check how many of the book filters match, using ternary I was able to keep this down to three variables. Meaning 3 filters match, Any 2 filters match or just 1 filter matches a book in the array.

- The last If-statement checks the counter to see how many filters match and then if the book that is being run through the for-loop met the criteria for the number of filters it is pushed to the booksMatchingFilterCriteriaArray.

```
const bookMatchesAllFilters = authorOfBookMatches && genreOfBookMatches && titleOfBookMatches;
const bookMatchesAnyTwoFilters =
  (authorOfBookMatches && (genreOfBookMatches || titleOfBookMatches)) ||
  (genreOfBookMatches && titleOfBookMatches);
const bookMathesOneFilter = genreOfBookMatches || authorOfBookMatches || titleOfBookMatches;

if (counter === 3) {
  bookMatchesAllFilters ? booksMatchingFilterCriteria.push(bookArrayNoDuplicates[i]) : "";
} else if (counter === 2) {
  bookMatchesAnyTwoFilters ? booksMatchingFilterCriteria.push(bookArrayNoDuplicates[i]) : "";
} else if (counter === 1) {
  bookMathesOneFilter ? booksMatchingFilterCriteria.push(bookArrayNoDuplicates[i]) : "";
}
}
```

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User Stories

User Story	Function used	How the function works
I want to view a list of book previews, by title and author, so that I can discover new books to read.	createDisplay, createBookHtml and For Loop	createBookHtml creates the correct Html code for the display. The for loop iterates through the Array of information calls the createBookHtml function to create the display for each Book. This is all wrapped in the createDisplay function to be called at different parts of the program
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.	createDisplay, createBookHtml and For Loop	Within these functions the image stored in the Array is included in the Display for the correct book
I want to have the option of reading a summary of the book so that I can decide whether I want to read it.	bookPreivewDisplay	This function checks which book the user clicked on and displays the description in an Overlay for the user to read
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.	bookPreivewDisplay	This function checks which book the user clicked on and displays the date it was published in an Overlay for the user to read

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User Stories

User Story	Function used	How the function works
I want to find books based on specific text phrases so that I don't need to remember the entire title of a book.	bookSearchOverlaySubmit	The function uses a for loop to iterate through the book Array and check if the text in the titles of all books matches the text given by the user
I want to filter books by author so that I can find books to read by authors that I enjoy.	bookSearchOverlayToggle, bookSearchOverlaySubmit	The bookSearchOverlayToggle first adds the author options to a drop-down list for the user to select. Once the user selects an author the bookSearchOverlaySubmit iterates through the book Array and checks if the author the user selected matches an author of any of the books
I want to filter books by genre so that I can find books to read in genres that I enjoy.	bookSearchOverlayToggle, bookSearchOverlaySubmit	The bookSearchOverlayToggle first adds the genre options to a drop-down list for the user to select. Once the user selects a genre the bookSearchOverlaySubmit iterates through the book Array and checks if the genre the user selected matches a genre of any of the books
I want to toggle between dark and light modes so that I can use the app comfortably at night.	themeSettingOverlaySubmit	The Function checks what option the user selected and changes the colour of the web page to the option colours the user selected

Conclusion

Thank You For Listening

Any Questions?

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