THE BOOK CONNECT BUG HUNT

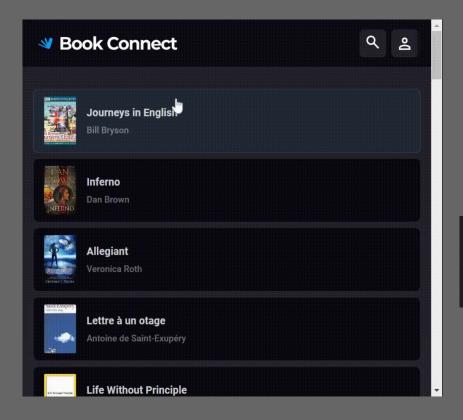
How I fixed Book Connect's bugs.

I WANT TO VIEW A LIST OF BOOK PREVIEWS WITH AN IMAGE, TITLE AND AUTHOR.

```
export const appendBooks = (books) => {
    /* use imported variable that stored the number of books that
    can be on the page at a time in a for loop to loop through the books
    and add only 36 at time*/
    for (let i = 0; i < BOOKS PER PAGE; i++)
        //get the books from index 0 in the books object
       const book = books[i];
       /*create a button element for the books so each book is
       const button = document.createElement('button');
         button.classList.add('preview');
              // Set the button's data-preview attribute to the book's id.
          button.dataset.preview = book.id;
     // Set the button's inner HTML to the book's title and author.
     button.innerHTML =/* HTML markup for the book cards */
      <img class="preview image" src="${book.image}" />
       <div class="preview info">
        <h3 class="preview title">${book.title}</h3>
        <div class="preview_author">${authors[book.author]}</div>
    // Append the button to the FRAGMENT.
    FRAGMENT.appendChild(button):
```

The home page book list was created using the appendBooks function. This function iterates through the books object, extracts the title, author, and image, and uses interpolation to generate button elements with the relevant information.

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The appendBooks function was added as an event handler for the "load" event on the root document element so that the books show on the page when the web page first loads.

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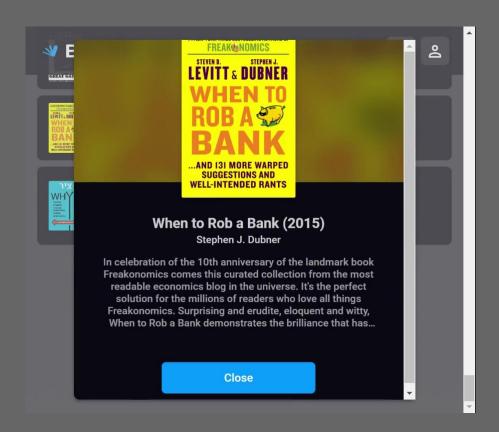
The **showMoreAction** function was used to add 36 more books to the page when the button is clicked.

```
event.preventDefault()
      /* fetch the books that are already on the page then count them and
   use the number of books left in the books object to add more books so the button
  can stop adding more books when all the books in the object have been added*/
   const booksOnPage = document.querySelectorAll('.preview');
  const booksOnPageCount = booksOnPage.length;
  //subtract books on page from total books in object
  const booksLeft = books.length - booksOnPageCount:
  //add the text to the button element
  if(booksLeft > 0) {
      /*add 36 more books to the page using the appendBooks function
       from where the first function call ended to 36 more books*/
       appendBooks(books.slice(booksOnPageCount, booksOnPageCount + 36))
       data.home.SHOW MORE BTN.innerHTML = `Show more <span class="list remaining">(${booksLeft - BOOKS PER PAGE})</span>
      /* make the summary overlay show when a book is clicked
Used a for loop to iterate over all the book buttons so that
const bookList = document.guervSelectorAll('.preview')
for (let z = booksOnPageCount; z < books.length; z++ ) {</pre>
  bookList[z].addEventListener("click", descriptionOverlay )
```

```
66
67 /*use event listener to make button load more books with the
68 showMoreAction function*/
69 SHOW_MORE_BIN.addEventListener("click", showMoreAction)
70
```

It will check that there number of books still not shown are more than 0, then run the appendBooks and descriptionOverlay functions again.

I WANT TO HAVE THE OPTION OF READING THE BOOK SUMMARY



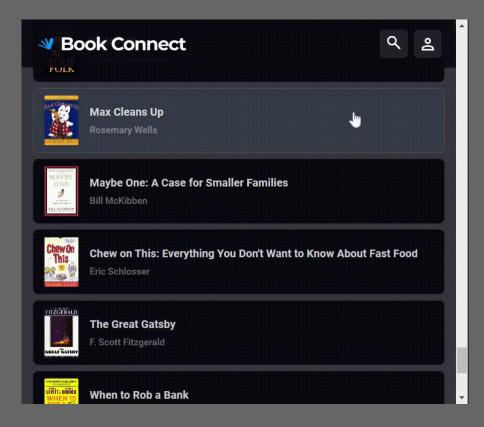
The descriptionOverlay function provides the book summary overlay feature. It first identifies the clicked book by id and then uses a for loop to find a matching id in the books object. Once found, the function uses interpolation to generate an html framework that displays the book information and activates the summary overlay.

I WANT TO HAVE THE OPTION OF READING THE BOOK SUMMARY

```
const bookSummary = document.guerySelector('[data-list-active]')
const book = event.target.closest('.preview');
const bookId = book.getAttribute('data-preview');
for (let i = 0; i < books.length; i++) {
   if (books[i].id === bookId) {
   bookSummary.innerHTML = /*html*/
    `<div class="overlay preview">
   <img class="overlay blur" data-list-blur="" src="${books[i].image}">
   <img class="overlay image" data-list-image="" src="${books[i].image}">
   <div class="overlay_content">
   <h3 class="overlay title" data-list-title="">${books[i].title} (${new Date(books[i].published).getFullYear()})</h3>
   <div class="overlay data" data-list-subtitle="">${authors[books[i].author]}</div>
   ${books[i].description}
   <div class="overlay row">
   <button class="overlay button overlay button primary" data-list-close="">Close</button>
   bookSummary.showModal()
```

The **descriptionOverlay** function provides the book summary overlay feature. It first identifies the clicked book by id and then uses a for loop to find a matching id in the books object. Once found, the function uses interpolation to generate an html framework that displays the book information and activates the summary overlay.

I WANT TO BE ABLE TO SEARCH FOR A BOOK WITH A PARTIAL TEXT



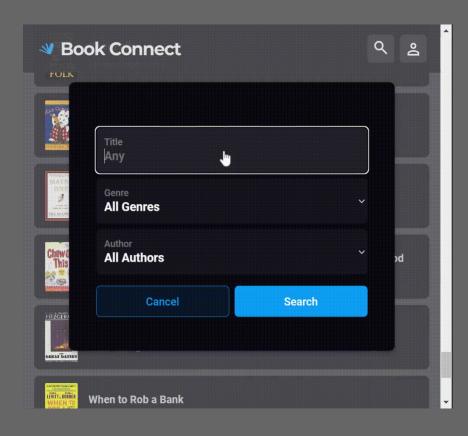
The searchBooks function enables searching for books with partial title matches. It fetches input values from the search overlay form, and searches the books array for matches based on text input. Matching books are compiled into an array and used to generate button elements for display on the html page.

I WANT TO BE ABLE TO SEARCH FOR A BOOK WITH A PARTIAL TEXT

```
export const searchBooks = (event) => {
    event.preventDefault();
    const searchText = document.querySelector('[data-search-title]').value.toLowerCase().trim();
    const selectedGenre = document.querySelector('[data-search-genres]').value;
    const selectedAuthor = document.querySelector('[data-search-authors]').value;
    let filteredBooks = books:
    /* apply the search filter on the genres so that if there is no
    genre selected, it will not run the code here.
    The Object.keys() function returns an array of the number ids in the
    genres object then the find() method will find the first key in the array
    that has a value that matches the selected Genre.
    The filter function will look if there is a key called genres in the
    books array and and return that book */
   if (selectedGenre !== "All Genres") {
     const genreId = Object.keys(genres).find(key => genres[key] === selectedGenre);
     filteredBooks = filteredBooks.filter(book => book.genres.includes(genreId.toString()));
    /* apply the search filter on the authors so that if there is no
    author selected, it will not run the code here. */
    if (selectedAuthor !== "All Authors") {
     const authorId = Object.keys(authors).find(key => authors[key] === selectedAuthor);
     filteredBooks = filteredBooks.filter(book => book.author.includes(authorId));
    if (searchText !== "") {
      filteredBooks = filteredBooks.filter(book => book.title.toLowerCase().includes(searchText));
```

The searchBooks function enables searching for books with partial title matches. It fetches input values from the search overlay form, and searches the books array for matches based on text input. Matching books are compiled into an array and used to generate button elements for display on the html page.

I WANT TO BE ABLE TO FILTER MY SEARCH BY AUTHOR AND/OR GENRE



The **searchBooks** function provides filtering options for author and genre. It fetches the id key for the selected author or genre from the respective objects, and uses it to iterate through the books object and find matches.

The matching books are added to an array called **filteredBooks**. The function then generates button elements for each book in the filteredBooks array, displaying the book's image, title, and author, and enabling summary overlay functionality.

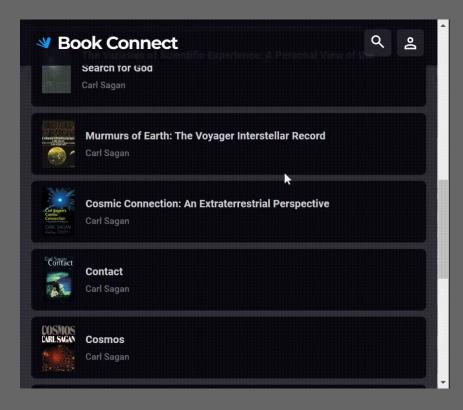
I WANT TO BE ABLE TO FILTER MY SEARCH BY AUTHOR AND/OR GENRE

```
let booksFound = filteredBooks.length > 0;
if (!booksFound) {
      document.querySelector('[data-list-items]').innerHTML = "";
     document.querySelector('[data-list-items]').innerHTML = `<div class = "list message list message show" data-list-message = "">
                                                        No results found.
                                                        Your filters may be too narrow, try again
SHOW MORE BTN.disabled = true;
  return filteredBooks
document.guerySelector('[data-list-items]').innerHTML = "";
filteredBooks.slice(0, BOOKS PER PAGE).forEach(book => {
 const button = document.createElement('button');
 button.classList.add('preview');
 button.dataset.preview = book.id;
   <img class="preview image" src="${book.image}" />
   <div class="preview info">
     <h3 class="preview title">${book.title}</h3>
```

The **searchBooks** function provides filtering options for author and genre. It fetches the id key for the selected author or genre from the respective objects, and uses it to iterate through the books object and find matches.

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I WANT TO BE ABLE TO TOGGLE BETWEEN DARK AND LIGHT SO I CAN USE THE APP COMFORTABLY.



• The changeTheme function enables switching between day and night themes. It iterates over the array of option values in the drop-down list and uses an if statement to check whether the selected value is "day". If so, it executes a code block that sets the colors to the day theme. Otherwise, the else statement is executed which applies the night theme colors.

RECOMMENDATIONS FOR BETTER CODE READABILITY AND PERFORMANCE.

- Ensure that the rules of JavaScript syntax are respected.
 - Declare variables, commas, semi-colons etc.
- Group code by function
 - Variables that are used for specific functions should be placed together with the functions to increase code readability.
- Global variables should be capitalized and placed at the top of the JavaScript code.
- Group DOM elements in objects for easier access.
- Use comments and JSDocs to explain the purpose of functions and variables.

THE END