

Book Connect Website

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Agenda

Introduction

What was wrong

What was fixed

Summary





Tuesday, February 2, 20XX Sample Footer Text



Introduction

- Book connect is an online platform with various books for a reader from fiction to non fiction.
- It is accessible to every user and it allows you to preview the book, before you can dive into it and see if it is what you want...

What was wrong

- It was challenging to fix the final layout of the app because the first developer had not initially commented this code. Function comments must have descriptions, arguments and logic to make the code more readable and facilitate future debugging.
- Functions must be declared with the const or let keyword, which makes it simpler to find bugs and ensures proper operation. Using a function might be preferable when writing some types of code, such as that which creates drop-down menu items. Functions were used to construct HTML fragments, which had the advantage of being reusable.
- * As seen on originalcode.js, code was randomly ordered, with code for related functions placed far apart
- The code has been reorganized and divided into sections based on functions (by using event listeners and also extracting the information from html) to increase readability.
- The dark/light mode symbol is deceptive, according to reviewers. For users who are using the app for the first time, it may be perplexing because it seems more like a login button.

The way to get started is to quit talking and begin doing.

Walt Disney



What was fixed

READABILITY OF THE CODE

- ❖ ARRANGE CODE BY FUNCTIONALITY AND REMOVE UNUSED/UNNECESSARY CODE.
- * SEPARATE CODE INTO FILES, LONGER CODE IS MOVED TO ITS OWN FILE SO THAT THE PERSON READING IT, WON'T BE CONFUSED
- ❖ MAKE DESCRIPTIVE VARIABLE NAMES SINCE INITIALLY THERE WERE JUST RANDOM WRITING
- MAKES IT EASIER TO TRACK THE PURPOSE OF VARIABLES BY USING DOM ELEMENTS.
- USE RESTRUCTURINGS TO ACCESS OBJECTS & ARRAYS.
- ALSO BREAK UP CODE USING THE RUNNING PROCESS STRUCTURE

CODE BREAK UP FOR FUNCTIONING

PAGE STRUCTURE

- View books and previews with title, author, year &summary.
- See 36 books at a time
- Scroll down using a button to show more.

DISPLAY SETTINGS

- Load page with system dark & light mode settings.
- Toggle dark & light mode setting or page.

BOOK SEARCH

- Search for books by title, author & genre.
- Do a strict search using the following parameters (title, author & genre.)

Maintainability

- Add JSDoc comments for all functions.
- Add comments for variables with type.

```
* @param {array} array is an object array of all books with properties.
 * @param {number} start is a number denoting where to start extract the array number of books.
 * @param {number} end is a number denoting where to end extracting tha array number of books.
 * @return {HTMLElement}
export const createPreviewsFragment = (array , start, end) => {
    const booksExtract = array.slice(start, end);
    let previewFragment = document.createDocumentFragment();
    for (let i = 0; i < booksExtract.length; i++){</pre>
        let { author, image, title, id } = booksExtract[i];
        author = authors[author];
        const preview = {
            author,
            id,
            image,
```

Variables Names

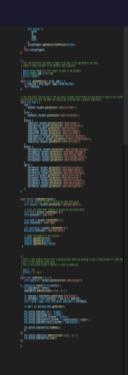
• This helps with selecting the right CSS style when getting the properties to work on Event listeners to click between the themes and toggling around the website

```
// This code checks darkmode/lightmode settings of user's system and assign them to the
html.display.settingsTheme.value = window.matchMedia && window.matchMedia('(prefers-cole
'night' : 'day';
let v = window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').matches?
html.display.settingButton.addEventListener('click', () => {
    html.display.settingsOverlay.showModal();
});
html.display.settingsCancel.addEventListener('click', () => {
    html.display.settingsOverlay.close();
    html.display.settingsSubmit.reset();
});
const css = {
    day: ['255, 255, 255', '10, 10, 20'],
    night: ['10, 10, 20', '255, 255, 255']
};
html.display.settingsSubmit.addEventListener('submit', (event) => {
    event.preventDefault();
    const formData = new FormData(event.target);
    const selected = Object.fromEntries(formData);
    if (selected.theme === 'night') {
        document.documentElement.style.setProperty('--color-light', css[selected.theme]|
        document.documentElement.style.setProperty('--color-dark', css[selected.theme][:
    } else if (selected.theme === 'day') {
```

Object Restructuring

Restructuring by using handlers.js folder helps with creating fragments which will be imported to script.js and avoid long code which will end up getting lost in it whilst debugging





Performance

- Using the import & export tags to access code between files...
- ❖ Use const or let to declare variables, to avoid variables to be overwritten, resulting in bugs.
- *Remove unused/unnecessary code for better debugging.
- Store DOM elements in object for better calling when it comes to running the website.
- Use defer to load JavaScript last.
- * Remove unused variables.
- *Test code to check if there are no errors, use the console log. Some error could have been fixed by looking console log errors which makes it easier to point them out and debug.

Performance (Selecting elements)

❖ Store DOM elements in object as stored .querySelector variables rather than calling .querySelector for the same element multiple times.

```
// this code deals with the view of the app (which includes search button and descrptions of books to be visible) by
selecting data from html and makes the viewing and scrolling have a smoother experience//
export const html = {
    view: {
       mainHtml: document.querySelector('[data-list-items]'),
    scroll: {
       moreButton: document.querySelector('[data-list-button]'),
       summaryList: document.querySelectorAll('[data-preview]'),
       summaryOverlay: document.querySelector('[data-list-active]'),
       summaryBlur: document.querySelector('[data-list-blur]'),
       summaryImage: document.querySelector('[data-list-image]'),
       summaryTitle: document.querySelector('[data-list-title]'),
       summarySubTitle: document.querySelector('[data-list-subtitle]'),
       summaryDescription: document.querySelector('[data-list-description]'),
       summaryClose: document.querySelector('[data-list-close]'),
    display:
       settingsOverlay: document.querySelector('[data-settings-overlay]'),
        settingButton: document.querySelector('[data-header-settings]'),
        settingsTheme: document.querySelector('[data-settings-theme]'),
       settingsCancel: document.querySelector('[data-settings-cancel]'),
        settingsSubmit: document.querySelector('[data-settings-form]'),
        searchCancel: document.querySelector('[data-search-cancel]'),
        searchButton: document.querySelector('[data-header-search]'),
        searchOverlay: document.guerySelector('[data-search-overlay]'),
```

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Performance (JavaScript Loading)

❖ This helps with loading JavaScript at the end and importing data from a different script and make it perform a certain way on another script for full user-friendly experience to the user.

```
<!DOCTYPE html>
<html lang="en">
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Book Connect</title>
    <link rel="apple-touch-icon" sizes="180x180" href="/meta/apple-touch-icon.png">
    <link rel="icon" type="image/png" sizes="32x32" href="/meta/favicon-32x32.png";</pre>
    <link rel="icon" type="image/png" sizes="16x16" href="/meta/favicon-16x16.png";</pre>
    <link rel="manifest" href="/meta/manifest.json">
    <link rel="mask-icon" href="/meta/safari-pinned-tab.svg" color="#0096ff">
    <link rel="shortcut icon" href="/meta/favicon.ico">
    <meta name="msapplication-TileColor" content="#0a0a14">
    <meta name="msapplication-config" content="/meta/browserconfig.xml">
    <meta name="theme-color" content="#0a0a14">
    <link rel="stylesheet" href="./styles.css" />
    <link rel="preconnect" href="https://fonts.googleapis.com" />
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin />
     href="https://fonts.googleapis.com/css2?family=Roboto:wght@500;700&display=swap"
     rel="stylesheet"
    <script src="/Interactive-Web-Apps/IWA_19/book-connect-main/scripts.js" defer type="module"></script>
   // Import data from data.js and handlers.
v import { BOOKS PER PAGE, authors, genres, books } from "./data.js"
  import { html, } from "./handlers.js";
   import { createPreviewsFragment, updateRemaining, showBookDescription, showPreview, cre
  const range = [0, 36]
  const matches = books; // Try to convert matches to an independent copy.
  let page = 1;
   /* This code checks if a book is not empty/undefined, and if it is an array.
   if (!books | !Array.isArray(books)) throw new Error('Source required');
   if (!range && range.length === 2) throw new Error('Range must be an array with two numb
```



This video shows that the user story was met.



Thank You

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GitHub for this project IWA_19

https://github.com/Zamavundla/ZAMDUZ120_FTC2301_NWABISA_ZamavundlaDuze_IWA