



Changes Made On JavaScript IWA 19

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Overview

- Initial Js code & errors
- Fixed Js code & layout
- Changes Made
- Why the Changes were Made



INITIAL vs. FINAL JavaScript CODE

- No comments
- Had No flow.
- No declaring of variables
- Repetition of variables that had to be declared.
- Js Syntax was structured incorrectly.
- Incomplete pieces of code

INITIAL

- Grouped code working in coordination to Perform similar tasks .
- Code Has a flow to it and this enables coders to add more features.
- Comments Added to help other developers .
- Proper declaration of Variables.
- None console dev Errors
- Simple and readable code that contains basic JavaScript code.

FINAL

HTML, scripts.js & data.js Changes

Initial way of importing
data from data.js

```
28  
29 <script src="./scripts.js"></script>  
30 <script src="./data.js"></script>  
31 </head>
```

Improved Way of Exporting
data.js Using module

```
28  
29 <script src="./scripts.js" defer type="module"></script>  
30
```

Importing
Data to
scripts.js

```
1 // Import data and constants  
2 import { BOOKS_PER_PAGE, authors, genres, books } from './data.js'  
3
```

Declaration &
Exporting(to scripts.js) of
Variables

```
1  
2 export const BOOKS_PER_PAGE = 36;  
3  
4 > export const authors = { ...  
92 }  
93  
94 > export const genres = { ...  
163 }  
164  
165 > export const books = [ ...  
5413 ]
```

Variable Changes & HTML Manipulation*(examples)*

Declaration of Variables to setup actions in the app

```
matches = books  
page = 1;
```

*Undeclared
Variables*

```
// Set initial variables  
const matches = books  
const page = 1;  
  
let startIndex = 0  
let endIndex = 36  
const extracted = books.slice(startIndex, endIndex)
```

*Updated
Variables*

Setting up an Event Listener

```
data-search-cancel.click() { data-search-overlay.open === false }  
data-settings-cancel.click() { querySelect(data-settings-overlay).open === false }  
data-settings-form.submit() { actions.settings.submit }  
data-list-close.click() { data-list-active.open === false }
```

Calling the HTML

```
// Get the menu element and create a fragment to append elements to  
const menu = document.querySelector('[data-list-items]')  
const fragment = document.createDocumentFragment()
```

LayOut Changes

No Flow

```
for ([id, name]; Object.entries(authors); id++) {  
  document.createElement('option')  
  element.value = value  
  element = text  
  authors.appendChild(element)  
}
```

```
data-search-authors.appendChild(authors)
```

```
data-settings-theme.value === window.matchMedia && window.matchMedia('(pref  
v = window.matchMedia && window.matchMedia('(prefers-color-scheme: dark)').
```

```
documentElement.style.setProperty('--color-dark', css[v].dark);  
documentElement.style.setProperty('--color-light', css[v].light);  
data-list-button = "Show more (books.length - BOOKS_PER_PAGE)"
```

Flowing

```
// Set up the "Show more" button  
const showMore = document.querySelector('[data-list-button]');  
showMore.innerHTML = /* html */ [  
  '<span>Show more</span>',  
  `<span class="list_remaining">${matches.length - page * BOOKS_PER_PAGE > 0 ? matc  
].join('');  
showMore.disabled = !(matches.length - page * BOOKS_PER_PAGE > 0);
```

```
// Add event listener to the "Show more" button  
const showMoreButton = document.querySelector('[data-search-form]')  
showMoreButton.addEventListener('click', () => {  
  startIndex += 36  
  endIndex += 36  
  const startIndex1 = startIndex  
  const endIndex1 = endIndex  
  const extracted = books.slice(startIndex1, endIndex1)  
  const fragment = document.createDocumentFragment()  
  for (const { author, image, title, id, description, published } of extracted) {  
  
    let element = document.createElement('button')  
    element.classList = 'preview'  
    element.dataset.id = id  
    element.dataset.title = title  
    element.dataset.description = description  
    element.dataset.image = image  
    element.dataset.subtitle = (`${authors[author]} ${new Date(published).getFully  
    element.setAttribute('data-preview', id)  
    element.innerHTML = /* html */ `
```

Adding Event listeners & Loops

Trying to Add event listener

```
data-header-search.click() {  
  data-search-overlay.open === true ;  
  data-search-title.focus();  
}
```

Correct syntax for event listener

```
// Add a click event listener to the cancel button of the settings overlay  
cancelModeBtn.addEventListener("click", () => {  
  if (themePopUp.open = true) {  
    themePopUp.close()  
  }  
})
```

Incorrect looping

```
authors = document.createDocumentFragment()  
element = document.createElement('option')  
element.value = 'any'  
element.innerHTML = 'All Authors'  
authors.appendChild(element)  
  
for ([id, name]; Object.entries(authors); id++) {  
  document.createElement('option')  
  element.value = value  
  element = text  
  authors.appendChild(element)  
}  
  
data-search-authors.appendChild(authors)
```

How to loop

```
// Loop through each author in the authors object and create an option element  
for (const [id, names] of Object.entries(authors)) {  
  const element = document.createElement('option')  
  element.value = id  
  element.innerHTML = names  
  dataSearchAuthors.appendChild(element)  
}
```

Why The Changes Were Made



Changes were made to:

- Meet the User stories
- Help other coders to understand the Code and were to improve it.
- Make app be functional and have features
- Fix all syntax and logical errors in the code
- Have better Understanding of what the code should do
- Be able to fetch data from `html.index` and `data.js` for use in the `scripts.js` file
- Help improve readability to enable a window into how else can write the code to perform the very same task