FINAL CAPSTONE IWA19

- 1.I imported data from data.js
- 2.added variable let.
- 3.used const to declare a constant variable.
- 4.the code defines a function called createPreview. This function takes an object as a parameter, which should have properties like author, id, image, and title.
- 5.The function creates a new HTML element, which is a button element with the class preview and a data-preview attribute set to the book's ID
- 6.The function then sets the innerHTML of the button element to an HTML string that includes an img element and a div element.
- 7.The img element displays the book's cover image. The div element contains the book's title and author, which are retrieved from the title, author, and authors variables. Finally, the function returns the element object.

```
import { books, authors, BOOKS PER PAGE, genres } from "./data.js";
let page = 1;
const matches = books;
// Show more books on the list
function createPreview({ author, id, image, title }) {
  let element = document.createElement('button');
  element.classList = 'preview';
  element.setAttribute('data-preview', id);
  element.innerHTML = /* html */
      <img
          class="preview image"
          src="${image}"
      1>
      <div class="preview info">
          <h3 class="preview title">${title}</h3>
          <div class="preview author">"${authors[author]}"</div>
      </div>
  return element;
```

- 1.ADDED A LET VARIABLE.document fragment is created to hold the list of book previews.
- 2.the slice method, which returns a new array with the selected elements.
- 3.A for...of loop is used to loop through the selected books and create a book preview for each one using the createPreview function. The book preview is then added to the fragment using the appendChild method.
- 4.The fragment is added to the page by selecting the element with the data-list-items attribute and appending the fragment to it.

 5."Show more books" button is selected using the querySelector method and an event listener is added to it using the addEventListener method. When the button is clicked, a new subset of books is extracted based on the current page number and the createPreview function is used to create a book preview for each one. The previews are added to a new fragment and the fragment is appended to the page. The showMore variable is updated to keep track of the number of books that have been shown and the disabled attribute of the button is updated based on whether there are more books to show

```
let fragment = document.createDocumentFragment();
const extracted = books.slice(0, 36);
for (const { author, title, image, id } of extracted) {
  const preview = createPreview({ author, id, image, title });
  fragment.appendChild(preview);
const dataListItems = document.querySelector("[data-list-items]");
dataListItems.appendChild(fragment);
const moreBooks = document.guerySelector("[data-list-button]");
let showMore = page * BOOKS PER PAGE;
// show more books button
moreBooks.addEventListener("click", () => {
  const dataListItems = document.querySelector("[data-list-items]");
 const remaining = matches.slice(showMore, matches.length);
  const fragment = document.createDocumentFragment();
  for (const { author, title, image, id } of remaining) {
    const preview = createPreview({ author, id, image, title });
   fragment.appendChild(preview);
  dataListItems.appendChild(fragment);
  showMore += remaining.length;
  moreBooks.disabled = !(matches.length - showMore > 0);
});
```

```
1. The moreBooks button is given a new HTML
                                                            moreBooks.innerHTML = /* html */ *
                                                              <span>Show more</span> (
content that displays the remaining number of books
                                                              <span class="list remaining">${
  to show when the button is clicked. This HTML is
                                                               matches.length - showMore > 0 ? matches.length - showMore : 0
generated dynamically based on the number of books
                                                             }</span> )
                      left to show.
2. When a book preview is clicked, an event listener is
                                                            // Handle preview click
                                                           document.querySelector("[data-list-items]").addEventListener("click", (event) => {
triggered. The function checks which book preview
                                                             const pathArray = Array.from(event.path || event.composedPath());
was clicked by iterating through an array of elements
                                                              let active;
in the event's path. Once the active book is found, its
                                                              for (const node of pathArray) {
details are displayed in an expandable overlay that
                                                               if (active) break;
appears on top of the page. The overlay displays the
                                                               const previewId = node?.dataset?.preview;
book's image, title, author, publication date, and
                                                                for (const singleBook of books) {
description.
                                                                 if (singleBook.id === previewId) {
                                                                   active = singleBook;
                                                                   break:
                                                             if (!active) return;
                                                             document.querySelector("[data-list-active]").open = true;
                                                             document.querySelector("[data-list-image]").setAttribute("src", active.image);
                                                             document.querySelector( "[data-list-blur]" ).style.backgroundImage = `url('${active
                                                             document.querySelector("[data-list-title]").textContent = active.title;
                                                             document.querySelector( "[data-list-subtitle]").textContent = `${authors[active.aut
                                                              (${new Date( active.published ).getFullYear()});
                                                             document.querySelector("[data-list-description]").textContent = active.description;
```

// Responsible for show more title

This section of the code handles the functionality of the close button in the book preview overlay. When the close button is clicked, an event listener triggers and sets the open attribute of the overlay's element to false, causing the overlay to disappear.

Additionally, this section handles the functionality of the search button in the page's header. When the search button is clicked, an event listener triggers and sets the open attribute of the search overlay element to true, causing the search overlay to appear. The search input field also receives focus, so the user can start typing their search query right away.

```
//cLose Button
| const closeButton = document.querySelector('[data-list-close]');
| closeButton.addEventListener('click', () => {
| document.querySelector('[data-list-active]').open = false;
| });

//Search modal show
| document.querySelector('[data-header-search]').addEventListener('click', () => {
| document.querySelector('[data-search-overlay]').open = true ;
| data-search-title.focus();
})
```

```
document.querySelector('[data-list-message]').innerHTML = ''
                                                                                                    submission,
                                                                                                    5.the code hides the book list by ch
 Get the form data using FormData
                                                                                                    style.display. code clears the me
 const formData = new FormData(event.target)
                                                                                                    by setting the innerHTML property o
                                                                                                    element that corresponds to the m
  const title1 = formData.get('title');
                                                                                                   to an empty string. The element is in
  const genre1 = formData.get('genre');
                                                                                                   the [data-list-message] attribute.
                                                                                                    6. The fourth section of the code ge
  const author1 = formData.get('author');
                                                                                                    data using the FormData constructo
 Create an array to store filtered books
                                                                                                   FormData constructor is passed the
                                                                                                   event.target object, which corresp
onst filteredBooks = [];
                                                                                                   search form. The form data is then
Loop through all books to filter based on form data
                                                                                                   the values of the title, genre, and
                                                                                                   fields.
or (let i = 0; i < books.length; i++) {
                                                                                                   7.code creates an empty array called
const book = books[i];
                                                                                                    filteredBooks, loops through all th
                                                                                                   the books array filters them based of
// If genre and author are not selected, filter by title only
                                                                                                   search criteria entered in the form
if (genre1 === 'any' && author1 === 'any') {
                                                                                                    8. To filter the book list, the code cre
 if (book.title.toLowerCase().includes(title1.toLowerCase())){
                                                                                                    empty array called filteredBooks.
                                                                                                    loops through each book in the book
  filteredBooks.push(book);
                                                                                                   checks whether it meets the user's
                                                                                                    criteria.9.If the user only enters a b
                                                                                                    code filters the books by title only.
                                                                                                   selects an author and/or a genre, tl
// If genre is not selected, filter by title and author
                                                                                                   filters the books based on the select
                                                                                                    and/or genre. The filtered books are
if (genre1 === 'any') {
                                                                                                   the filteredBooks array. If no boo
```

prevent the default action of the fo

```
/ If genre is not selected, filter by title and author
                                                                     1. To filter the book list, the code creates an empty array called
f (genre1 === 'any') {
                                                                     filteredBooks. It then loops through each book in the books
if (book.title.toLowerCase().includes(title1.toLowerCase())
                                                                     array and checks whether it meets the user's search criteria.
 && book.author === author1){
 filteredBooks.push(book);
/ If title is not entered, filter by author and genre
if (title1 === '') {
if (book.author === author1 && book.genres.includes(genre1)){
                                                                     genre.
 filteredBooks.push(book);
if (title1 === '' && author1 === 'any' ) {
if (book.genres.includes(genre1)){
 filteredBooks.push(book);
// display message if no books match filters
if (filteredBooks.length > 0){
document.querySelector('[data-list-message]').innerText = ''
document.querySelector('[data-list-button]').disabled = true
document.querySelector('[data-list-message]').style.marginTop =
 '-125px';
 else{
document.querySelector('[data-list-message]').innerText =
  'No results found. Your filters might be too narrow.'
document.querySelector('[data-list-button]').disabled = true
```

2. If the user only enters a book title, the code filters the books by title only. If the user selects an author and/or a genre, the code filters the books based on the selected author and/or

3. The filtered books are added to the filteredBooks array. If no books match the search criteria, the code displays a message indicating that no results were found.

1. selects an element with a class of "list_message" and sets its CSS display property to "block", making it visible.

2creates a new empty DocumentFragment, which is a lightweight document object that can hold other DOM elements.

3..loop iterates through each book in the filteredBooks array and creates a preview button for each one. The button's attributes and content are set using data attributes and interpolated template literals.

4.selects the same element as before (list_message) and appends the DocumentFragment fragment2, which contains all the preview buttons for the

filtered books.

5.reset the search form and close the search overlay, presumably after the filtered books have been displayed.

```
// display filtered books
document.querySelector('[class="list message"]').style.display = 'block'
// Create a document fragment to hold the filtered books
const fragment2 = document.createDocumentFragment()
    for (const {author ,image, title, id , description, published} of filteredBooks) {
        const preview = document.createElement('button')
        preview.className = 'preview'
        preview.dataset.id = id
        preview.dataset.title = title
        preview.dataset.image = image
        preview.dataset.subtitle = `${authors[author]} (${(new Date(published)).getFullYear()})
        preview.dataset.description = description
        preview.dataset.genre = genres
        // create preview button with the book information
        preview.innerHTML= /*html*/
        <image class='preview image' src="${image}" alt="book pic"}/>
        <div class='preview info'>
        <dt class='preview title'>${title}<dt>
        <dt class='preview author'> By ${authors[author]}</dt>
// append preview button to fragment
        fragment2.appendChild(preview)
      // add filtered books to message area
          const booklist2 = document.querySelector('[class="list message"]')
          booklist2.append(fragment2)
             document.querySelector('[data-search-form]').reset()
             document.guerySelector("[data-search-overlay]").close()
```

- 1. This code creates a drop-down menu for selecting book genres in a search feature the code creates an "All Genres" option with a value of "any" and appends it to the drop-down menu.
- 2.the code loops through the genres object, which contains genre IDs and names, and creates an option element for each genre. The option element's value is set to the genre ID and its inner text is set to the genre name. Each option element is then appended to the

drop-down menu.

3.this code dynamically generates the genre options for the search feature based on the genres object.

```
// Drop down for genres
const dataSearchGenres = document.querySelector("[data-search-genres]");
const allGenresOption = document.createElement("option");
allGenresOption.value = "any";
allGenresOption.innerText = "All Genres";
dataSearchGenres.appendChild(allGenresOption);
for (const [id, names] of Object.entries(genres)) {
    const element = document.createElement("option");
   element.value = id:
    element.innerText = names;
   dataSearchGenres.appendChild(element);
for (const [id, names] of Object.entries(genres)) {
    const element = document.createElement("option");
    element.value = id:
   element.innerText = names;
   dataSearchGenres.appendChild(element);
```

```
1. I select the element with the attribute
data-search-authors and assign it to the
variable dataSearchAuthors. I create a new
option element and assign it to the
variable allAuthorsOption. I set the value
attribute of the allAuthorsOption to
"any". I set the innerText property of the
allAuthorsOption to "All Authors I
append the allAuthorsOption to the
dataSearchAuthors element. I loop through
authors objectusing Object. entries (auth
ors) For each author in the authors object,
I create a new option element and assign it
to the variable element. I set the value
attribute of the element to the author's
ID. We set the innerText property of the
element to the author's name.i append the
element to the dataSearchAuthors
element.
```

```
2.select the element with the attribute data-settings-form add an event listener for the submit event.prevent the default form submission behavior using
```

```
// Drop down for authors
const dataSearchAuthors = document.querySelector("[data-search-authors]");
const allAuthorsOption = document.createElement("option");
allAuthorsOption.value = "any";
allAuthorsOption.innerText = "All Authors";
dataSearchAuthors.appendChild(allAuthorsOption);
for (const [id, names] of Object.entries(authors)) {
    const element = document.createElement("option");
    element value = id;
    element.innerText = names;
    dataSearchAuthors.appendChild(element);
document.querySelector('[data-settings-form]').addEventListener('submit', (event) => {
  event.preventDefault();
  actions.settings.submit();
  });
  // Closes the preview overlay
document.querySelector('[data-list-close]').addEventListener('click', () => {
  document.guerySelector('[data-list-active]').open = false;
});
```

```
1. IT gets the settings button element and
adds a click event listener to it. When clicked,
it will show the theme overlay dialog box
.Then gets the cancel button in the theme
overlay dialog box and adds a click event
listener to it. When clicked, it will close the
theme overlay dialog box.and gets the theme
select element and defines two objects for
the color values of the day and night themes.
2. This code block sets up a theme mode for
```

```
the application. It first gets the settings
button and adds a click event listener to it.
When the button is clicked, it displays a
theme overlay dialog. The code then defines
the color values for the day and night themes.
```

```
3.it gets the theme select element and the root element
```

```
//Theme mode
const settingsBtn = document.querySelector('[data-header-settings]');
settingsBtn.addEventListener('click', (event) => {
 event.preventDefault();
  const themeOverlay = document.querySelector('[data-settings-overlay]');
  themeOverlay.showModal();
  const settingsCancelBtn = document.querySelector('[data-settings-cancel]');
    settingsCancelBtn.addEventListener('click', () => {
     const themeOverlay = document.querySelector('[data-settings-overlay]');
     themeOverlay.close();
const themeSelect = document.querySelector('[data-settings-theme]');
const css = {
 day: {
   dark: '10, 10, 20',
   light: '255, 255, 255',
 night: {
   dark: '255, 255, 255',
   light: '10, 10, 20',
```

- 1. The first line gets a reference to the form with an ID of 'settings'.
- 2. The next line, which is currently commented out, would get a reference to the theme select element.
- 3.An event listener is added to the form for the 'submit' event. When the form is submitted, the event listener's callback function is called
- 4. Inside the callback function, the value of the selected theme is retrieved from the 'themeSelect' element, which is currently not defined.
- 5. The color values for the selected theme are then applied to the document's root element using the 'setProperty' method of the 'style' property of the 'documentElement'.

6. The last two lines initialize the theme based on the user's OS theme preference. A media query is used to check if the user's preferred color scheme is dark, and the initial theme is set accordingly using the 'setProperty' method.

```
const form = document.getElementById('settings');
//const themeSelect = document.querySelector('[data-settings-theme]');
form.addEventListener('submit', (event) => {
  event.preventDefault();
  const theme = themeSelect.value;
  document.documentElement.style.setProperty('--color-dark', css[theme].dark);
  document.documentElement.style.setProperty('--color-light', css[theme].light);
});
// Initialize theme based on user's OS theme preference
const prefersDarkMode = window.matchMedia('(prefers-color-scheme: dark)').matches;
const initialTheme = prefersDarkMode ? 'night' : 'day';
document.documentElement.style.setProperty('--color-dark', css[initialTheme].dark);
document.documentElement.style.setProperty('--color-light', css[initialTheme].light);
```