Frontend Developer Assignment

Thank you for applying for the frontend developer internship at our company. Please find below the information for the assignment which you should complete.

Assignment:

Using the technologies you are most familiar with, create a web page that allows users to search for books by Title, Author, or Genre. The web page should display, by default, the list of all books sorted alphabetically by the Author's name.

The web page should have the following features:

1. **Search Functionality:**
    - The search bar should allow the user to enter a search query and click a 'search' button to submit the query.
    - Use a JavaScript function to filter the results based on the query and return matching results.

2. **Responsiveness:**
    - Ensure the webpage is responsive and displays properly on both desktop and mobile devices.

3. **Styling:**
    - Style the book list using CSS (or Sass) and follow the BEM methodology.

4. **Sorting Options:**
    - Include a dropdown menu to control how the books are sorted:
        - Alphabetically by Title
        - Alphabetically by Author Name (default)
        - Alphabetically by Genre
    - Update the sorting dynamically based on the selected option.

5. **Handling No Results:**
    - Display a ‘No results found’ message if the search query does not match any books.

6. **Highlighting Matches:**
    - Clearly outline matching parts of the Author Name, Title, or Genre by displaying the matching text in bold and red.
    - For example, if the book details are:
        - Title: Hello
        - Author: World
        - Genre: Adventure
        - and the keyword is ‘Hel’, display the title as: **Hel**lo

7. **Merging Data from JSON and CSV:**
    - Load the list of books from both the provided `books.json` and `books.csv` files.
    - Merge the data based on a unique `id` field present in both files.

Additional Notes:

- The search function must be written in your code. Do not make any API calls to third parties.
- Use the list of books provided in the attached JSON and CSV files.
- Focus on responsiveness and adherence to BEM; specific styles are not being judged.

Submission Requirements:

- Submit all code in a public GitHub repository and share the URL.
- We **do not accept** zip files.
- Include a:
    - URL where your web page is hosted.
    - ReadMe file with clear instructions on how to run the web page locally.
- Test your submission to ensure you do not miss any steps.

Evaluation Criteria:

1. **Functionality:**
    - Does the search function work correctly and efficiently?
    - Are the sorting options implemented and working as expected?
    - Is the ‘No results found’ message displayed appropriately when needed?

2. **Code Quality:**
    - Is the code well-organized and easy to read?
    - Are best practices followed in JavaScript, CSS, and HTML?
    - Is the BEM methodology applied correctly in the CSS/Sass?

3. **Responsiveness:**
    - Does the web page display properly on various devices (desktop, tablet, mobile)?
    - Is the design fluid and adaptable to different screen sizes?

4. **User Experience:**
    - Is the search experience smooth and intuitive?
    - Are the search results clearly highlighted for better readability?

5. **Submission Completeness:**
    - Is the GitHub repository public and accessible?
    - Is the live URL working and displaying the web page?
    - Are the ReadMe file instructions clear and complete?

6. **Data Integration:**
    - Is the data from the JSON and CSV files correctly merged based on the `id` field?
    - Are all books displayed with the merged data?

7. **Overall Presentation:**
    - Is the project presented professionally?
    - Are all required features implemented correctly?