Developer's Guide

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Introduction:

This document's purpose is to help developers understand our programs components, connections, methods, and our approach to creating a website for any reason that suits them. Whether you are just viewing to understand and learn or wish to expand and further develop the program, this document is necessary to understand how the website works and how you could add to it with the way we have built it so far.

Basic Software information:

BookScout is a website we developed using HTML, CSS, and JavaScript for frontend along with Firebase Realtime Database, Authentication, and Cloud Storage for backend functionality. The program does not have any special requirements for certain software or technologies such as python as it is just a website you access similarly to google or amazon. BookScout is a website in which a user may use to keep track of their reading progression, view information of a book, favorite books, mark books as read, build their reading score, and leave reviews all while having a simple UI to promote ease of use.

Features:

REGISTER/LOG IN/LOGOUT

- REGISTER THROUGH REGISTER/LOGIN PAGE
- LOGIN SAVED IN FIREBASE DATABASE
- LOGIN WHENEVER NEEDED; IN ORDER TO VISIT ANY OTHER PAGE
- LOGOUT WITH BUTTON ON HOME PAGE

Key Functions/Methods:

CheckAuthState()
login()
register()

var firebaseConfig
.catch()
.then()

Favorite Books

- Favorite any books you may want to save
- View on user dashboard
- Number of favorite books kept track of on dashboard

Key Functions/Methods:

JSON.parse

fetch()

function()

Search Books by Title or Author

- Search on search page to browse the catalog
- Search title or author of book and best match in the query is displayed first
- If a search has no matching titles or authors of a genre, the genre will no longer be displayed; If there are no matches in any genre then the message "No results" will be displayed.

Key Functions/Methods:

loadBooks()

filterBooks()

addEventListener()

encodeURIComponent()

Date().getFullYear()

fetch()

response.json()

reduce()

Object.entries()

createElement()

View Book Information

- When a book is clicked you will be brought to a page about that book that shows all of its details
- On this page you will have the option to favorite a book, mark a book as read, or visit the review page.

Key Functions/Methods:

fetch()

response.json()

reduce()

Object.entries()

createElement()

Mark Book as Read

- On a book's display page you may mark the book as read, a message from the site is given when you do so.
- The user dashboard will be changed accordingly, incrementing the books read counter
- Tracks book progress

Key Functions/Methods:

JSON.parse

fetch()

function()

Review/Rate Books

- When on the review page you may leave a review and rating of the book and/or view other reviews left on the book
- Reviews are saved in storage.

Key Functions/Methods:

encodeURIComponent()

.catch()
.then()

Point System

- Each book is assigned a hidden value from 1-10 based on the difficulty of the read
- When a book is marked as read, the users book score in the dashboard will increase by that amount.
- Keeps track of reading progress

Key Functions/Methods:

fetch()

function()

Object.entries()

createElement()