

GreatReads



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Introduction

What is your project?

- Our project is called GreatReads, a book tracking web application.

What is the motivation for your project?

- The motivation was to create a simple, user-friendly platform for tracking, browsing, and discovering books designed to streamline the user experience compared to existing platforms.

Briefly describe your approach

- We developed the frontend using React with Vite for fast build and hot-reload performance. The backend was handled through Firebase, which provided user authentication and real-time database functionality. We also integrated a third-party book API to support the search and browse features.

Introduction

Summarize your results and conclusions. Did you complete your project goals?

- Yes, we completed the majority of our goals, although we were ambitious. The app includes user login via Firebase Auth, a fully functioning search interface, and a dynamic browse page pulling data from the external API. // add more

Technology

Front End:

- React with Jsx and TypeScript
- Vite
- UI customization using MUI

DataBase:

- Firebase Realtime Database

Customer Value

No change

Technology

Changes from your status report:

For the backend and the database we are now using Firebase Realtime Database, replacing our original plan to use Node.js, C# and SQL Server. Firebase manages both user authentication and data storage and it also integrates directly with our React frontend. It also allows for us host our database globally so all of us could use it, upon exploration of the SQL server hosting it globally would have been out of our abilities.

Team Contributions

Maddie:

- Connected project to Firebase, configured and set up users in the database
- Created the User Profile page, the my books page and the browse books page

Alyssa:

- Set up the google books api
- Created the book details page
- Implemented status of the books and updated it in the database when the user changes them.

Silvia:

- Implemented the SearchPage component to fetch and display book results based on the search query
- Created and styled the search page and the navigation bar

Yves:

- Set up the Login and Sign Up pages, integrated with Firebase for seamless authentication.
- Implemented the dark/light theme mode toggle, enhancing usability and visual appeal.

Project Management

- We did not complete all of our goals on schedule. As mentioned before, we were too ambitious with our goals given the time constraints.
- If we had more time and this was the only project/class we were working on, we may have been able to achieve our goals.

Reflection

What went well?

- Frontend development with React went smoothly. We were able to build a clean UI with good component organization and theme customization
- Firebase integration was successful. We set up authentication and data storage using Firestore without needing a custom backend.

What did not go well?

- Initial setup of the database saw some struggles, determining the correct and necessary configuring so that it would agree with our project became more involved than once assumed

Reflection

Do you consider the final project a success?

Yes we consider GreatReads a success. We delivered a fully functional, multi-page web application built with React that provides a smooth, intuitive, and visually consistent user experience. Users can log in via Firebase Auth, search for books through a third-party API, and browse dynamic, real-time content. The result is an engaging platform that meets our core objectives and demonstrates both usability and future potential.