

AI-Assisted Development Documentation

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Abstract

This document provides an overview of the AI-generated prompt and framework that assisted in building a React component. The prompt guided the integration of essential React hooks and Firebase for user authentication and data management. Which allowed for more efficient UI customization and functionality.

Prompt Overview

Show me the framework for a React component that demonstrates a basic app usage using `useState` and `useEffect` hooks. The component should integrate Firebase for user authentication and data handling with Firestore allowing it to fetch, display, and update user data. Include navigation buttons, data display sections, and input fields for updating information. Use functions, state management, and asynchronous data fetching.

How It Helped My Project

When I used the generated framework for my project it gave me a good starting point and helped me structure my React component using essential hooks like `useState` and `useEffect`. Especially given my lack of background in doing so. Also the example of Firebase with Firestore for user authentication and data handling showed me how to fetch, display, and update user data effectively and do it the right way. Being able to have some guidance with these more complicated things let me have more freedom and allowed me to spend more time with the actual look of the UI and allowing me to focus more on customizing the features I wanted. I made sure not to rely too heavily on the generated code. I noticed that sometimes it would make less efficient functions and unnecessary additions that could be redundant. Which could cause some errors in the UI and also just ruin the whole project because one bad file can cause it not to work. Debugging and understanding the choices that the AI made definitely helped me a lot about learning how the code works at its core. Overall, it was a helpful guide but pushed me to improve my skills by refining the code myself. As well as it was helpful when I would write some code and it didn't work by giving me possible solutions and possible errors in my code.

Reflection

Overall the framework served as a helpful guide helping me work on my skills by adjusting and optimizing the code independently. The AI assistance was also useful when debugging or searching for possible solutions to errors making it good for both learning and development.