Project Update 6

Course Code & Section: CSE299.4 Project Group No.: 2

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Project Overview:

ModifAI is a mobile application designed to assist users with interior decorating through the use of Artificial Intelligence. The app allows users to upload images of their rooms and receive personalized design suggestions. Additionally, the app integrates a real-time user-to-user chat system to facilitate communication and feedback among users.

Work Completed:

This week, we successfully resolved all the errors related to user data fetching and chat functionality. The user-to-user chat system is now fully operational, enabling users to send and receive messages in real time. Users can communicate seamlessly within the app, enhancing the overall user experience. The chat feature is now reliable and working as expected, with messages being delivered in real-time.

Current Status:

The user-to-user chat system is fully integrated and functional. The core communication feature is now live, and users are able to interact with each other smoothly. This represents a major milestone in terms of app interactivity and real-time communication.

Next Steps:

- Add a group chat feature to allow multiple users to communicate within the same chat.
- Implement the ability to **share images** between users, improving the communication and interaction within the chat system.
- Continue optimizing the chat functionality to ensure scalability and responsiveness.

Tools and References:

- Flutter (UI), Firebase (Authentication & Firestore)
- Firebase Cloud Messaging for real-time updates
- OpenAl API for suggestions and debugging
- ChatGPT (OpenAI, 2025) for coding and troubleshooting support
- Firebase and Flutter community resources for real-time chat development

Conclusion:

The user-to-user chat system has been successfully implemented and is functioning as expected, with real-time messaging fully operational. The next phase will focus on extending the chat functionality by adding group chats and image-sharing capabilities. These features will further enhance user interaction and communication within the app.