

Project Update 2

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

Group Members:

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Project Overview:

ModifAI is a mobile application that uses Artificial Intelligence to assist users in interior decorating. Users can upload a photo of their room and receive design suggestions generated by an AI model. The goal is to simplify the interior design process through an easy-to-use mobile interface.

Work Completed:

In this phase, we successfully connected the AI model to the mobile application. The chatbot is now able to receive and respond to user messages. We also made several UI adjustments to improve layout and responsiveness. Initial testing confirmed that text-based interaction with the AI is functioning correctly within the app environment.

Current Challenges:

While core text communication with the AI is now working, we are currently focusing on two key areas:

1. Enhancing the AI model's response capabilities for improved conversation quality.
2. Preparing the system to accept and process room images for visual-based suggestions.

Next Steps:

- Extend AI functionality to analyze and respond to room images.
- Add new features to the profile page, such as saved room designs and preferences.
- Continue improving the overall user experience by refining both UI and AI response behavior.

Tools and References:

- Flutter (UI), Python (backend)
- OpenAI API documentation
- YouTube tutorials and official Flutter documentation

Conclusion:

With the successful integration of text-based AI communication, ModifAI has taken a major step forward. The focus now shifts to visual interaction and feature expansion. We are making steady progress and remain on track for the upcoming development goals.