

SIT305-10.1D Report File_224385035

Through the Task 10.1D Improved Personalized Learning Experience App, I focused on expanding the app with more useful and complete features. The original version only had a basic quiz system and topic selection. And in this version, I added three major features: History, Sharing, and Purchasing.

The History screen helps users track their quiz performance. It displays the number of correct and incorrect answers, the most recent quiz result, and the time the last quiz was taken. All data is stored locally using SharedPreferences, which is simple and works well for saving small amount of user data.

The Sharing feature allows users to share their profile and recent quiz result. I used Android's built-in Share Intent, which opens the system's share sheet. Users can choose any app, like Messages or Email, to send their data as plain text.

The Purchasing system was added using the Stripe API in test mode. There are three plans available: Basic, Premium, and Pro. After selecting a plan, the payment is processed and the result is shown in a dialog box. This gives users a way to upgrade their experience.

This Personalized Learning Experience app follows modern Android development practices. The UI is built with Material components, the code is organized into separate classes with clear logic, and error handling is in place. I also used the Volley library for handling API calls.

In future versions, I think using an LLMs can help improve how quiz questions are generated. Instead of fixed questions, the app could generate new ones based on the user's level. The AI could also explain why answers are wrong, making the learning process smarter and more personal. Furthermore, LLMs could also improve more about user experience and give related AI generated efficient suggestions.