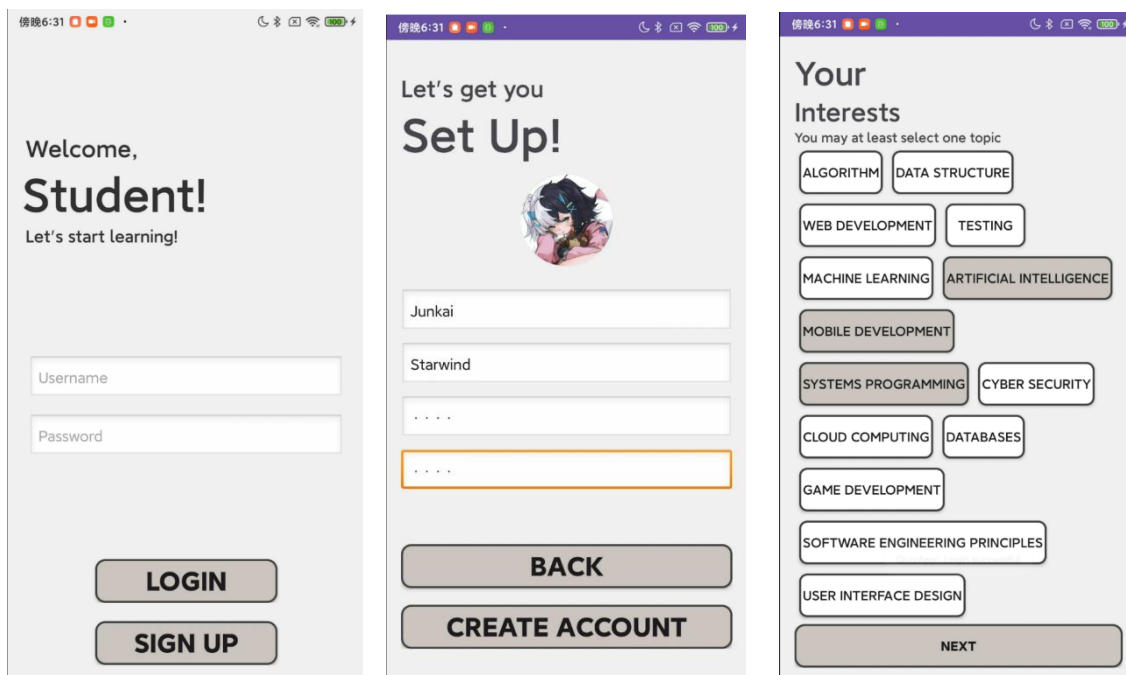# SIT305 Task10.1D

Overview

"Personalized Learning Experiences App" is an innovative Android quiz application powered by Llama 2. It allows users to generate customized quizzes tailored to their interests. The app meticulously records each user's answer history, enabling them to review their performance at any time. For an enhanced experience, users can opt for premium services. On their profile page, users gain a comprehensive overview of their answer records, which they can easily share with friends or peers.
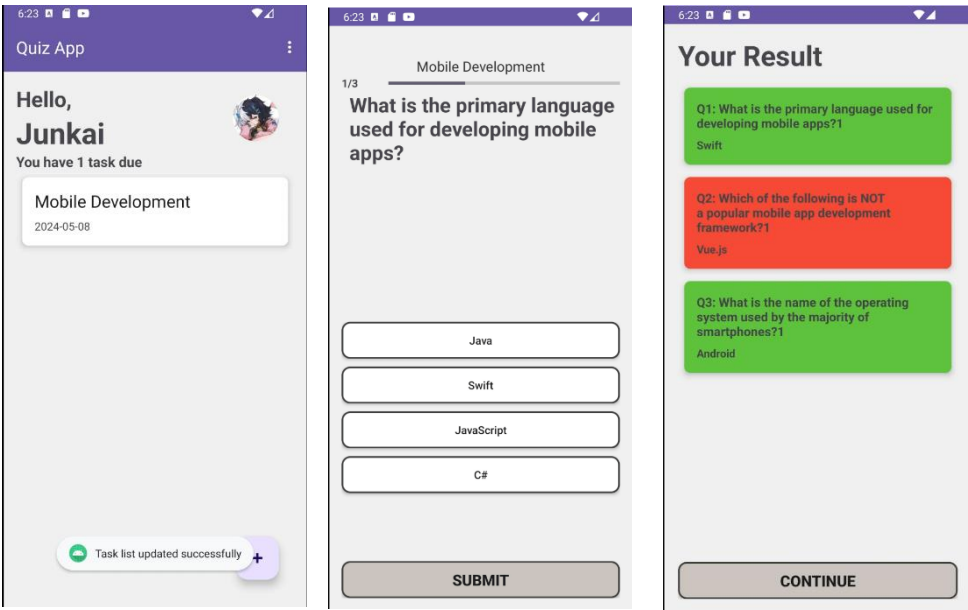
Functionalities

User registration and login

Users register by picking an avatar and entering their full name, username and password. At this stage, they can also select their interests. The user can then log in via username and password.
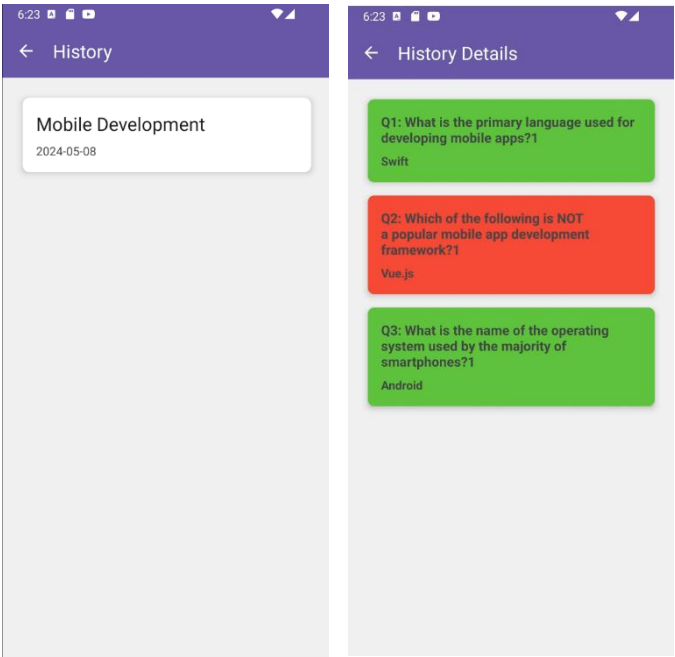
Quiz generating and answering

When the user clicks the generate button, the interests selected during the registration phase will be randomly selected as keywords and sent to the Llama2 model, and Llama2 will generate the corresponding quiz according to the template. After the quiz is completed, it will be moved to the history record.
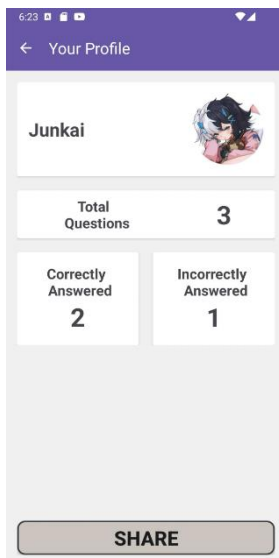

History

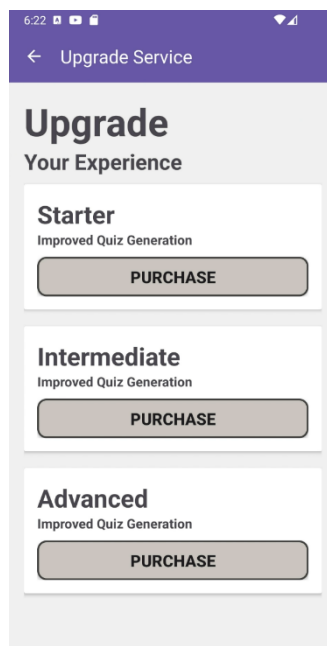Users can view previously answered quizzes through the history function.

Profile and Sharing

Users can view an overview of their answers on their personal page and share it with others.

Purchase the advanced services

Users can pay to choose more advanced services.

Further Improvement using LLMs

➢ Adaptive Learning Algorithms: Incorporate LLMs to analyze user responses and tailor quiz difficulty accordingly. The model can dynamically adjust question complexity based on the user's performance, providing a truly customized learning experience.

➢ Intelligent wrong question set: Input past wrong questions as instructions into LLM to generate a set of wrong questions with similar questions.

➢ Interactive Feedback System: Develop an interactive feedback system where LLMs provide detailed explanations or hints when a user gets a question wrong. This can help deepen understanding of complex topics by engaging users in a conversational manner.

➢ Real-Time Doubt Resolution: Integrate a chatbot powered by LLMs that users can query in real time while taking quizzes. This bot could provide instant clarifications, additional context, or resources for a deeper understanding of quiz topics.

Demo Video Link

Task10.1D Quiz APP

GitHub Link

userstarwind/SIT305 (github.com)