

Project Reflection: Mobile App Development Course

In our Mobile App Development course, our team was divided into two groups to manage various aspects of our project effectively. The first group, consisting of Botond and Anatol, and the second group, formed by Justin and Tanguy, tackled distinct components of the app, collaborating seamlessly to bring our vision to life.

Contributions of Botond and Anatol

Botond and Anatol were instrumental in developing several key features of the app, focusing on user interaction and communication. Their contributions included:

- **Registration/Login:** They created a user-friendly registration and login system, ensuring secure and easy access for users.
- **User Profile Customization:** This feature allowed users to personalize their profiles, enhancing user engagement and personal expression within the app.
- **Chat with Real-time Translation:** A standout feature where they implemented a chat system capable of translating messages in real time, breaking language barriers and facilitating global communication.
- **Select Partner's Language:** They enabled users to select the language of the person they are communicating with, further enhancing the app's versatility in multilingual conversations.
- **Viewing Partner's Profile Page:** This addition provided a personal touch, allowing users to view the profiles of their conversation partners, fostering a sense of community and connection.

Contributions of Justin and Tanguy

Justin and Tanguy focused on the social and interactive elements of the app, ensuring users could connect and communicate effectively. Their efforts included:

- **Random Matching of Users:** They developed an algorithm for randomly matching users, promoting diverse interactions and encouraging users to connect with people from various backgrounds.
- **Conversation Starters:** To assist users in initiating conversations, they introduced conversation starters, reducing the initial communication barriers and enhancing user engagement.
- **Collaborative Effort on Original Message Feature:** Both groups worked together on allowing users to see the original message before translation, maintaining the authenticity of communication and enhancing understanding in cross-language interactions.

Challenges Encountered

Throughout the development process, our team faced several challenges:

- **Color Problems with the Login Package:** Integrating the login package with our app's design theme proved challenging, as we encountered issues with color scheme compatibility.
- **Seamless Translation Process:** Ensuring the translation process was seamless and efficient required significant effort, as we aimed to provide real-time, accurate translations without disrupting the flow of conversation.
- **Asynchronous Loading from Firebase:** Implementing asynchronous data loading from Firebase presented difficulties, especially in maintaining a smooth user experience without lag or interruptions.

Conclusion

The development of our mobile app was a journey of learning and collaboration. Each team member brought unique skills and perspectives, contributing significantly to the project's success. Despite the challenges encountered, our commitment to overcoming these hurdles led to the creation of an app that we are proud to present. This project not only honed our technical skills but also taught us the value of teamwork and perseverance in the face of obstacles.