

群體語音互動手機軟體

Interactive Group Voice Application

周智倫

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摘要

因應現今通訊方式的演進，手機的通訊軟體變得越來越重要，本研究將針對市面上的通訊軟體無法服務的部分作改良，研發出一款無設限的語音互動軟體，使得使用者可以在沒有好友的侷限性當中，結識與自己志同道合的朋友。為了能夠更好的與對方進行交流互動，將設計具有語音以及文字的互動，為使功能可以執行上述功能。透過開發環境 Android Studio 串接至 Firebase，可以進行帳戶註冊以及管理帳戶，再依據 Firebase 功能中附加額度的即時資料庫讓文字聊天得以實現，最後，利用 Agora 的一對多之語音套件，以加入群組的方式開啟一個語音互動的聊天室，將这三樣東西進行整合，完成 群體語音互動手機 app 之目標。

關鍵詞:通訊軟體，語音互動，雲端後台，身分驗證。

Abstract

To respond to the revolution of nowadays communications, the mobile communication software becomes more and more important. This research will aim at improving the sections that are not available by the communication software in the market. Unlimited voice interactive software can be created. The software can make users meet like-minded friends who are not in the friends list. In order to be more successful to communicate with others, the software that included voice and word interaction can operate the functions showed above. People can create and manage the account through developing an environment Android Studio connected to Firebase. Then, based on the instant database of the extra quota in the Firebase function, the words chatting can be achieved. Finally, to utilize the one-to-many voice toolkit of Agora creates a voice interactive chatroom by the approach entering the group and consolidate the three items. As a result, the target of the group voice interactive app from the mobile phone is completed.

Keywords: communication software, voice interaction, cloud background, identity authentication