



Android voice assistant and its application for internet of things implementation in online adult education

W Chang*

Department of Adult Education, National Taiwan University of Science and Technology, Taipei, Taiwan

*Corresponding author. E-mail: wang@gmail.com

Received: 03-Aug-2022, Manuscript No. IJANFE-22-74953; **Editor assigned:** 05-Aug-2022, Pre QC No. IJANFE-22-74953 (PQ); **Reviewed:** 19-Aug-2022, QC No. IJANFE-22-74953; **Revised:** 26-Aug-2022, Manuscript No. IJANFE-22-74953 (R); **Published:** 05-Sep-2022, DOI: 10.15651/2437-1882.22.3.035.

DESCRIPTION

Online education platform for adult higher education can be implemented based on research on recommended method of online courses. The best platform for creating mobile applications is Android to its open-source kernel code, excellent human-computer interaction design, and intelligence that has made mobile devices an integral part of people's lives. With the recent rapid growth of the economy, society has placed forth many new expectations for sustained learning, and many new issues have oriented in adult higher education. Adult education is an important component of long-time learning. The distance learning medium is online education. Due to the on-going development of Internet and the on-going increase and rapid development of online education, it provides previously unheard-of chances for the development and use of highest educational resources.

The integrated management subsystem of adult higher education, the network education subsystem, the personal process proposals, and the mobile education app are the primary subject. The detailed design is carried out in accordance with the needs and analyses, the subject's scoring procedure is examined, and the suggested methods for the personality chemistry topic are presented in accordance with the pertinent laws and collaboration. The approach can fulfill the fundamental needs of suggested courses in accordance with the data chosen in the past and the current course information.

Adult higher education is used to achieve student payment, system role setup and permissions, student online learning, and personal process. At the same time, we created an online learning platform with essential features like mobile learning and suggestion. The voice assistant for Android has received a lot of attention recently due to its significant theoretical value and wide range of potential applications. The accuracy and speed

of speech recognition have significantly improved to artificial intelligence research.

In order to design the overall structure of the online education platform based on the current network platform, it is necessary to establish the infrastructure, application foundation, and analysis of requirements. This is achieved by analyzing the actual needs of industry-wide lifelong education and online education. They include learning resource management, cloud course management, course learning preparation, online learning management, and academic performance evaluation. The design of the information portal system is comprehensive and specific. The system-categorized examination question bank's administration module is created in a sequential manner. The education network improves traditional face-to-face education and training with superior technical skills and rich scientific knowledge, and provides us with all types of technology and scientific knowledge through design and testing.

The literature describes the ease of long-time learning created possible by the development of network education platforms. However, these platforms also have drawbacks. The platform's operational costs are relatively high, and it requires ongoing investment to expand and develop in order to satisfy the needs of online education (including purchases) for continuous education. This includes hardware costs. On the other hand, the price of a high-performance server includes the consumption of a lot of network bandwidth and human resources, such as a lot of producing, developing, maintaining, and debugging software systems. Second, the platform's functionality is lacking in various areas. Additionally, there are still extremely few resources available for instructional materials. Participate in more educational and training programmes on platform management and operation, and make the greatest use of the cloud platform's resource-sharing features.

DESIGN, PRISCIPLE, AND SPEECH RECOGNTITION

To utilize all of the features of the software, the application must be running in the background. We can search among several programmes in the list without using the phone if we open the software for the first time. To utilize the Bluetooth earpiece, simply double-click the volume up button. A voice prompt will then appear. Start the phone and SMS monitoring service in accordance with the settings information at the same time to make sure the application programme is functioning properly and has all the rights needed by the offline table. An artificial sound detection system is an important option because an artificial neural network is a huge parallel distributed processing system with available functions.

Directly performing simulation-aided design using the neural network model's programming language is a laborious operation. To start with, compilers are fairly complicated. More crucially, only particular programmes may be assembled to address a variety of unique issues. Given that data preparation is the establishment and fundamental concept of a neural network model in this situation, the MATLAB software package is becoming more and more popular. The most crucial part of speech signal pre-processing, which is the detection and feature extraction of audio signal endpoints, is speech recognition. A neural network can be built up to match the work with the sample training after the audio signal's features have been obtained.