

**Penerapan Speech Recognition Pada Aplikasi Android Penentuan Level
Pembelajaran Yanbu'a Jilid 1 Untuk Anak Usia Dini Menggunakan Google
Speech Api**

*Application of Speech Recognition in Android Applications Determines Level 1 of
Yanbu'a Learning for Early Childhood Using Google Speech Api*

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ABSTRACT

The Yanbu'a method is one of the methods used in carrying out an activity to read the Qur'an which will later help carry out activities with good and maximum results. But the reality is that there are still many teenagers who do not understand the hijaiyah script. Therefore, Hijaya's illiteracy must be eradicated seriously. The purpose of this study is to create an android application for determining the level of learning yanbu'a volume 1 for early childhood using the Google Speech API so that it can be a forum for anyone who wants to learn and read hijaiyah letters in a fun way, especially for children. , to improve the efficiency and effectiveness of the learning system through Android smartphones. The test is carried out in 3 stages, namely Black box testing, UAT and testing by experts. Based on the results of the first test, the overall result was 51.42%. The total result for the second test was 71.42%. On the third try, the result is 100% which means all the letters have the correct answer based on the examiner's vote. Black box testing got a value of 100% while the UAT test got 70.75% results from the analysis results which amounted to

Keyword : speech recognition, google speech API, hidden markov model