ABSTRACT

Tajwid is a science or law in learning how to pronounce the letters or sounds contained in the Al-Qur'an. Learning tajwid is a must for Moslems in order to avoid errors in reading the Al Qur'an. The common learning method that being used is accompanied by a "Tahsin" expert or a companion who proficiently. In this final project, tajwid recitation applications built on the Android mobile phone (mobile based) that support independent learning.

The system in this final project is built by utilizing the Audio Record on Android as a voice recorder. Furthermore, the recorded voice will be read and it's feature will be extracted. Feature extraction method using Mel Frequency Cepstral Coefficient (MFCC), while the classification using Euclidean distance. The scoring system is by comparing the user pronunciation feature matrix with the feature matrix in database. Euclidean Distance is used here for calculating the difference between the closeness of two the matrixes. The smaller Euclidean distance value, the better pronunciation is.

The problem encountered in this study are the presence of noise interference, and the distance of users with the device when pronouncing the tajwid should not be too close or too far. The results showed the system is able to work best with an accuracy of 50 %. The system has not been said to be good for classification methods that have not been so precise in determining the outcome assessment.

Keyword : Tajwid, Android, MFCC