

## **ABSTRACT**

Speech recognition is a technology that can recognize speech or words regardless of who the speaker. Input as voice can converted into text that is able to read. Speech recognition is implemented with a lot of smart devices, cars, television, room and many others. By using this kind of technology allows us to use voice commands such as the mobile application.

Currently, the development of smart phones are very advanced. The implementation of speech recognition in android application continuing, speech to text are one of them. So it created an android application speech to text from English to Balinese language use pocketsphinx. This application does not require internet access so it can be used anywhere for tourists who are interested in knowing a few words in the Balinese language. Not only that, this application is also intended for android users who want to increase the vocabulary words in Balinese language.

This application is able to provide accuracy over 80% from results of the analysis parameters used. From the test result with MOS parameter, obtained values above 4. In other words, the application can be accepted and judged good by the user.

**Keywords** : Speech Recognition, Speech to Text, Android, Pocketsphinx.