

## ***ABSTRACT***

Today, the development of application systems android experience rapid growth. Various applications of speech recognition have been widely used in android application. For example the introduction of the word in education, games, social, and so forth.

In research, an application android speech processing, algorithms are needed in the process of introduction. Speech Recognition is better real time application android. When the sound to be received is not real time, the information obtained will not be intact. By using algorithms that already exist in the library on android. Because of that , this library is used to solve the problem.

In this paper will be built a system based on phone using speech recognition with hidden markov model algorithm. It will use the library on android application that already uses HMM algorithm. HMM is a speech recognition algorithm that has the speech recognition accuracy rate about 95%. In the process of making is android application, because ication process will be done first training data , because that speech recognition application will detect the sound. The introduction of the word to be recognized in accordance with a list of words or phrases that have been introduced in the system.

**Key words :** Speech Recognition, Hidden Markov Model (HMM), Android