

ABSTRACT

Humans as social beings need a means to interact with other humans in the community. For the purpose of social interaction, a vehicle of communication is needed which called language. English is one of the most widely taught international language in many countries of the world. However, based on a survey conducted by the English Proficiency Index 2016 from EF (EF EPI). Indonesia got a score of 52.91, the 32nd position from a total of 72 countries.

In this study, the authors will design and implement English translator tool into Bahasa Indonesia. The input will be English voice and the output results will be in Bahasa Indonesia voice. Prototype of translator tool will be made in Raspberry Pi 3, the output results in raspberry are different if the output results are done in computer. The results received in raspberry are the voice will be cut off at the beginning of the word, while the computer does not.

The resulting output are the writer can convert the writing that has been previously processed into a sound with the results of 91.3% accuracy. With average error on pronunciation of the letter e (petang) that is pronounced e (medan) and vice versa.

Keywords: Text to Speech, Speech to Speech Translation, Raspberry pi3.