

## ABSTRACT

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Indonesia is a country that has many languages, although many languages that are owned are still Indonesian. In Indonesian it has many meanings, therefore many people have to use a large dictionary of Indonesian as a reference point in interpreting a word. Using the dictionary in searching for a word takes time to search the dictionary word by word. Therefore, this tool was made to make it easier for users to search for words using the speech to text method. The application of the Indonesian dictionary system is used by connecting the device with the application on an Android device. To interpret words, the user simply says the word or selects the desired word so that it is displayed on the LCD. For the mechanism of connecting tools and applications, the HC05 Bluetooth module is used with a distance limit to connect up to 120 meters without obstacles. The tool used to display words on this tool is LCD 128x64, in the process of displaying words on the LCD screen, a delay of 3.86 seconds is obtained at a distance of 30 meters, a delay of 7.40 seconds at a distance of 90 meters, and a delay of 9.17 seconds at a distance of 120 meters.

*Keywords: Arduino Mega, LCD, Bluetooth HC05 and Android*