

ABSTRACT

Currently the manual switch is still used by many people to disconnect and reconnect the electrical current. The difficulties that often occur is when house owner will turn on or turn off lights, fan, tv and others house owner must work twice. Moreover, when homeowners are traveling and forgot to turn off one of the electronic devices that exist, the effect is the swelling of the electricity bill. However, in line with the current technology and more people are using smartphones that can be resolved.

Smartphones based on the Android OS is one gadget that can be used to overcome the above problems. With this gadget, user will be able to control and monitor all electronic devices at home just to say a few words on the application using speech recognition that integrates with google voice which will then be sent to the server and forwarded to the electronic devices, so that user can controlling and monitoring electronic devices with easily.

This final project produce an application of electronic control and monitoring devices are integrated with google voice that can be used to control using 8 vocabulary as a command that is light on, light off, fan on, fan off, check temperature, check the plants, the plants and check. Applications can be used as a control on the lights and fan and can retrieve data from temperature and humidity sensors to control the maximum distance is 25 Km with an average response time counted from the user finished giving commands to be executed by the master node is 2 seconds. The accuracy of the application in detecting commands from a user with a total of 120 times of trial is 95.83%.

Keywords: Android, speech recognition, voice control.