

ABSTRACT

In the world of technology is always happening rapid development one of them aims to facilitate humans. In this case the development of gas detector that is currently developing rapidly provides solutions to overcome the problem of air pollution. Therefore all existing systems must be real time and mobility. This is what triggers the establishment of Internet telcology combines things with android applications.

IOT platform here will be updated in real time then android application will take all air pollution information to the user. IOT platform using Thingspeak.com and JDT Eclipse into software used to build this application with java language as its programming base. Microcontroller is also used to detect the presence of gas in the air per second so that the data obtained from the presence of gas to be sent to the IOT platform system via wireless communication using ESP8266 module to further be processed in android applications as air pollution information.

This application is also in trials in 2 different android smartphone type 1 OS android 4.4, and 1 again with OS android 6.0.1. In the test has 2 stages, the first stage of the input manual and the second stage download data from the server and do not forget there is also a blackbox, the results can be that all smartphones with OS 3.0 and above can run all the menus in this application well. Whitebox for ispu calculation operation system using base path method of pseudocode.

Keywords: Air pollution, Android, IOT platform.