

ABSTRACT

Bandung is one of the major city in Indonesia that applies the system of Smart City. In the implementation of Smart City, security and safety of life is an important issue. This study aims to realize the safety of students and childrens in bandung. Therefore, the porpose of this research is to help parents and school to track the position of their child or student while they are on his way to school. In this case the parents or the school can only track the bus. This research uses a few tools namely PN5322 NFC RFID, ESP8266 Nodemcu, GPS module Neo 6M, and the Arduino UNO. Moreover, the system that is created is an IOT based monitoring system. In this study, requirements analysis, system design, system implementation, testing the system has been used as part of achieving the objective and finally creating the report is the completion of this work. The range of RFID in this study only reaches less than five centimeters, the GPS system cannot be used indoors, and the web application system does not have API Gmaps.

Keywords: RFID, ESP8266 Nodemcu, GPS Neo 6M, Arduino Uno, Internet Of Things.