

ABSTRACT

Internet Of Things also known as IoT is a concept that has a goal to expand the usage and benefit from internet connectivity that has becoming a necessity thanks to its reliability an coverage. Because of the Internet that has an advantages in reliability, cost ,speed and coverage, a tracking system based on IoT is developed and implemented. The system is able to be used as tracker by using GPS Module U-Blox M8N as a geolocator and the data that have been acquired by GPS module is sent by the Internet consecutively into the Web Server database using GPS/GPRS module SIM800, and the coordinate data that have been collected in the database is collected by Smartphone Application to be visualized as a real-time position view using Google Maps feature on Android Smartphone platform. As a power source, this system uses either 5 Volt using micro USB interface that located on the Arduino microcontroller or 12 Volts using XT-60 for battery input. Based on the research and various tests, this system is able to send coordinate data in 15 seconds interval, new data is sent in to the database.

Keywords: IOT, SIM 800, Tracker