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