ABSTRACT

Helmets are one of the main needs in driving especially on motorcycles. Often when visiting a place, there is no storage of helmets, it makes a lot of riders who use a fret helmet. Currently the helmet storage system is done conventionally by entrust the helmet to the existing officers. But this way often has a lot of obstacles. Therefore it is necessary that the system can handle this system to minimize existing constraints. The system to be created using ArduinoMega 2650 serves as a microcontroller on the system. RFID modules as a sign of identity users and access to use lockers. The Infrared Sensor serves as the item detector in the locker. The WiFi module ESP8266-01 as an IoT device to send data to the server in order to do web monitoring online, the results of Infrared sensors and RFID sent to the web to see the availability of lockers and the length of use of lockers. Solenoid door Lock serves as a locker lock as well as an LED as an contains or blank locker marker. With this system created user can use the locker only by using RFID tags without having to register as user, then user can see the availability of lockers and old use of lockers from Web Access online.

***Keywords**: IoT, Monitoring, Multi RFID Locker.*