ABSTRACT

Based on survey data in the Laboratory of the Faculty of Applied Sciences (FIT) in the even semester of 2018, showed a fairly high level of complaints. The number of complaints reports that occur in the laboratory, generally in the form of requests related to the needs of practicum tools and the occurrence of obstacles at the lab. Thus a panic button system is needed to help lecturers and practicum assistants if a problem occurs. Besides that the system is also designed to have a communication device so that both lecturers and practicum assistants do not leave the practicum room when asking for help. The purpose of this research is to design and build a system that works by sending text data through Ethernet Shield. This system consists of several components, namely Arduino Uno, Ethernet Shield, easyVR, and on/off switch. The test results show that the sound detector has an accuracy rate of 86%.

Keywords: easyVR, Arduino, Ethernet Shield