Noise is the unwanted sound that can be annoying or harmful to health [1]. Many losses caused by the noise, other than the discomfort and distraction also have an impact also on the health, both physically and psychologically. In addition to the educational environment, the recommended limit noise index is 55 dB [6]. This final task is to build a prototype for monitoring noise using arduino sound sensors. A prototype built consists of three main parts: sensors, actuators and applications to clear the data by implementing communication Machine to Machine (M2M). Sensor function for reading the intensity of noise in the environment and then sends to OpenMTC M2M platform through a gateway. Then the application interface will display the data and determine the status of the sound intensity. If it has exceeded the limits of the application will send commands to the actuator to turn on the LED indicator. Communication between the microcontroller in this prototype using Zigbee protocol. This prototype tested at Telkom University classrooms and can run properly. The components and functionality that can be run in accordance with the design.
Keywords : M2M, noise, Zigbee