

Project Development Phase

Delivery of Sprint – I

Date	8 November 2022
Team ID	PNT2022TMID23807
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Proposed System

Most parents care about their children school safety, so we propose an idea to solve the problem. We invent the device in this project Smart tag for children. And put some sensors in it. The sensors will detect children's status then send text message. They check the children status on mobile phone.

I proposed new futures from the existing system if the student has no in school compound it send the location of student to school principle or class monitor teacher.

The sensors I use GPS (NEO-6M-O-001) the sensor display value on the text message. There are four status of children was displaying on text message. Four statuses are "Sleeping", "Studying", "Exercising", and "Dangerous".

If the data detected by NEO-6M-O-001 is change continuously more than 3 seconds, the status will change to "Exercising". If the children don not exercise the status will be change to "Studying". According to the GPS we can know the children rout from home to school. If the children absent from school or out of school during class the status change to "Dangerous" we can track the children. When during Dangerous mode the tag send text message to their families.

The three statuses are depending on speed. The NEO-6M-O-001 is measure speed by kilometer by second.

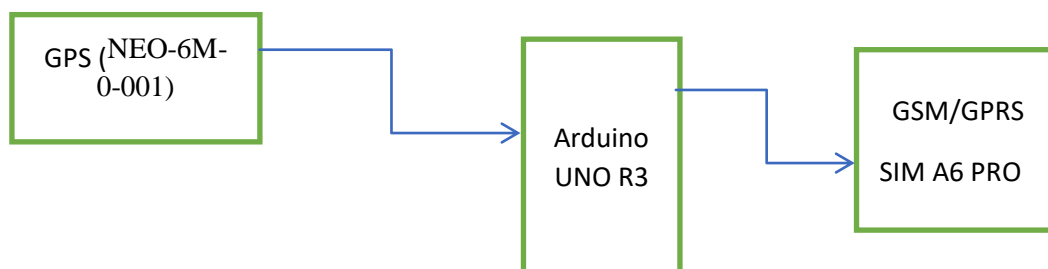


Figure: Block diagram