ABSTRACT

To protect the old people there needs to be a special custody in order to know the conditions when outside the home. Then made a tool in the form of prototipe *detection and monitoring for the old people through Smart Tracking. Smart Tracking is a tool used to detect the location where someone is located through a GPS connection. The tools used to build Smart Tracking are GPS module, GSM module, vibration sensor, and voice recorder module. The voltage used for this tool is battery 9 V which is changed voltage using step down DC-DC, current owned by step down is equal to 3 A. The way this system works is to detect the location by using GPS module, and detection of vibration falling using vibration sensor . Then the GSM module will send information in the form of SMS to the user's family. And voice recorder module can record sound and play back sound. Based on the results of testing this system is useful to monitor, and supervise someone if lost and fell.*

Keywords: Smart Tracking, Old people, prototype, GPS