ABSTRACT

The door is the main tool in the security of the house or the main access to enter the house. When the main security is easily accessed by foreigners, the house has a low level of security. So rather than that, security needs to be done in the door. In the Final Project, a door security system using an Android-based sensor and Bluetooth has been designed that can provide security through a door sensor to find out someone's presence, Bluetooth on a smartphone and keypad as an access key to open a door. PIR sensor will detect the movement of a person within a distance of up to 7 meters so that Bluetooth access on a smartphone that has a connectivity distance of 10 meters using the time to access bluetooth is only 7.26 seconds and the time used to access the keypad is only 4.21 seconds.

Keywords: Door, Bluetooth, Android, Sensor , Keypad , Smartphone.