ABSTRACT

In general safety doors of the house is used by people just use regular house door lock,

where people have to open or lock the door of the house in the distance approaching and

sometimes locks on the doors are still lagging behind due to negligent. This resulted in the

door lock is still not safe. The reason for pushing me to create an innovation applied and

gives more security than the door locks in general.

Innovation is realized by making the house through the door slot system control

bluetooth. This tool does not need a key just use apps on android that is connected to the

microcontroller through the circuit bluetooth control android application so that users can

open or lock the doors with the remote distance range according to the bluetooth.

Authors make android application that has a way of working that is by pressing an

image on android app then sends commands to the microcontroller block communication

through bluetooth. At the command microcontroller block command is processed then

proceed to block 1298 as a relay driver to determine central lock open or lock. So the android

app replaces the function of the door locks in general. Based on the results of the testing

distance bluetooth connection in the hallway outside the room and as many as 550 times the

experiment of the obtained results in the maximum distance alley room as far as 51 meters

with 91.9% success percentage. While the maximum distance in the room as far as 41 meters

with 90.3% and the percentage of success in the maximum distance as far as 38 meters

outdoors with a success percentage of 89%. It can be concluded that the device was made to

work well according to the design and implementation of door slot system with bluetooth

controls.

Keywords: door locks, microcontroller, bluetooth, android

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