

ABSTRACT

In the current era, technology is growing. The most important thing in human life is health. And the rise of the Covid-19 disease caused by the corona virus which can cause death to someone. Now Covid-19 patients have subsided but the emergence of a new virus is causing the number to continue to increase. Where the government enforces social distancing regulations and uses health protocols. To support government regulations and facilitate human activities, a machine performance is needed that can monitor the number of people in a room. Where the machine is used as a tool for human performance is today's technology which is the result of the development of the Internet of Things.

The expected results in this study, the tool can determine the number of people entering the room so that it makes it easier for users to control and assist in calculating the total population of people entering and from the specification of the components of this population counting tool it can be predicted that this tool is very accurate in detecting populations of people in one room and count everyone who enters the room so that it can be monitored using an id card using the RFID Reader RC522 sensor to get the number of people entering and leaving the system completely accurate and from the RC522 RFID Reader sensor to Wemos D1 Mini will send the number data on people who enter the room and Firebase as a database is used to find out the output of the output counter for the number of people who enter as a database control system in a room.

Keywords: *Wemos D1 Mini, RC522 RFID Reader, Internet of Things, Firebase.*