**ABSTRACT** 

Lift or Elevator is a vertical transportation used to transport people or goods.

Elevators are generally used in high-rise buildings which usually have more than three

or four floors. Elevators in modern times have buttons that passengers can choose

according to their destination floor.

At the end of 2019 the world was shocked by the emergence of a disease caused

by a virus, namely the 2019 novel corona virus or abbreviated as 2019-nCov. The

results of a study by the UvA Institute of Physics and the University of Amsterdam

stated that one of the characteristics of the corona virus is that it can survive for 30

minutes on an elevator button due to aerosol particles from an infected person.

Furthermore, anyone in the agency building also needs an elevator to go up and down

the floor. In order to prevent virus transmission through the elevator button media due

to many users touching the elevator button, it is proposed that the elevator button

operation control can be controlled with an Android phone via a local wifi network.

In this final project, a prototype wifi-based elevator control system is proposed

in the form of a prototype that aims to reduce contact with the media for the spread of

the Covid-19 virus. The use of infrared sensors as sensors to detect trains during

calibration which is then sent to the server using ESP32 and displays information on

the presence of trains in the elevator application with the fastest delay of 0 seconds

and the slowest 2,5 seconds. The output of this tool is the movement of the elevator

when the user presses a button from the application which is forwarded to the ESP32

using a local wifi network to run the elevator movement command with a time accuracy

of 95%.

Keyword: Lift, Corona Virus, Wifi

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