

## ABSTRACT

Mobility of society is very high today . Nowadays people can connect with others even if they are not each other face to face . Limits of space seemed to have disappeared . This should apply also to humans with their home , but in reality people have not been able to control or determine the condition of the house even they are not at home . Basically this function is necessary for people who often leave the house empty , because then , homeowners do not have to worry about the condition of her house because it can be controlled and monitored anywhere.

Seeing this condition , then made a system to give homeowners access to control and monitoring her home . This system uses the internet as a medium to perform these functions . All data will be stored in the server , and as executor of the *input* data or commands , the microcontroller is needed . Microcontroller will be installed in the house to perform these functions . Interface with homeowners using the web because it feels very flexible because it does not rely particular operating system .

Application has been made to perform its function properly . Homeowners can control and monitor the house from anywhere . Regarding the delay until the command is executed , it takes about 4-9 seconds with use the Internet network at 0.52Mbps uplink and 0.45Mbps downlink. The distance between the microcontroller can not exceed 9 meters if using HC - 05 module . After passing the test , we can conclude the system is still stable despite have lived continuously for 7 days .

Keywords : control , monitoring , internet , server , microcontroller