

## **ABSTRACT**

The development of technology make life easier and more practical. Technology has evolved rapidly and facilitate all jobs. One of the development of technology is the security technology that can be applied to a building to control the security of the building. With the development of mobile technology enables the owner supervising a building from anywhere just by using a smartphone. Based on that, it required a mobile application that integrated with the security system was desired.

Applications will be designed based on android and serves as controller of security systems was built, which this program will control the actions from users in the form of alarm and locking the door and show the results of capturing from surveillance camera. Android studio became a tool used to build these applications with Java as a programming language. To be able to control the door in an emergency, the microcontroller is used to receive commands from the user so that the door can be open or locked. And to update the information of a captured image, it used mysql database server that can be accessed through the Internet.

This reasearch shows that the control panel application of building security system can help and facilitate user to control the security of the building. If there is someone detected by the laser and the camera, then this application can display notification to the user that there is someone detected and displays the person's face photo. Through this application the user can provide actions (alarm and door locking) from anywhere in real time through his smartphone.

Keywords: Security Systems, Android Application, Control Panel