

ABSTRAK

Bio Farma is the only producer of vaccines for humans in Indonesia and the largest in Southeast Asia that has been funding itself in the context of producing vaccines and anti-sera international standards. Bio Farma has a laboratory room that can only be accessed by employees who work at Bio Farma, therefore, before the laboratory the room must perform a fingerprint scanning process so that the door to the laboratory room can be opened. In the lab room installed CCTV that is useful for all activities in the room in the lab, CCTV has a friendly place CCTV file storage in question will be provided automatically save the first recording to provide a new file storage place, therefore the admin of the lab room must always match the fingerprint scanning data of employees who were moved by the room with the results of CCTV recordings. Here the author makes a system that makes it easy for the admin of the room by adding a PIR sensor that works for employees to support and send data to the microcontroller Raspberry PI model 3 B. After the microcontroller gets the data of possible movements that will be carried out outside the lab room, a webcam will be available to discuss the intended meaning and webcam will be released. Here the author uses a degree of movement algoritma that works to calculate the number of movements and if it is agreed to have reached the limit it will start the webcam camera.

Keywords: PIR Sensor, Movement Degree Algorithm, Raspberry pi 3 model B, Bio Farma, Webcam camera.