The technologies associated with our system are all existing ones that have been implemented before. Sensors and cameras are widely used for surveillance systems which send a text or email to the owner, indicating them about an alarm [1]. For starters, we would be using a magnetic door switch set which will alert the program if an intruder opens the door [2]. Such systems have already been implemented on a larger scale. After that we would be using a PIR motion sensor to detect if the intruder entered the room after opening the door. The PIR sensor is probably the most widely used motion sensor that uses infrared radiation in order to detect motion within its range [3]. If both sensors are turned on, then the system will take a picture using a surveillance camera, which could be a security camera or a webcam connected to a computer. The program will then save the information on the computer and also send a mail to the owner to warn them about a possible intrusion [1]. Furthermore, to alert surrounding people, we would be using a piezoelectric buzzer which is usually used in alarm devices, timers, electronic metronomes and etc [4]. By using these existing technologies we would be making a modified room surveillance system which will not only detect possible intruders but also display helpful information to non-intruders looking for the usual occupant of the room. The information would be displayed using a LCD display, the most commonly used display module.

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