WIFI BASED MOTION SENSOR INTRUDER SYSTEM WITH VIDEO MONITOR

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ABSTRACT

The security system these days does not only applied to a big building for company in instance, but also personal home. There are various home security system available out there range from only by Closed-Circuit Television (CCTV) monitoring to alarm based home security system. However, this kind of system cost quite a fortune and somewhat are not user friendly enough which might be a reason why people are reluctant to have it as part of the security measures from intrusion, burglary and robbery. This is also not a pleasant thing considering the rate of mentioned cases has been increasing each day. Therefore, this project, "Wi-Fi Based Motion Sensor Intruder System with Video Monitor" was proposed and designed to provide the solution to the mentioned problem by providing a more user friendly home security system which is also less costly than any available home security system out there. It consists of a motion sensor, Arduino Yun which provides the communication between the user and the system. This proposed design are also consists of a webcam for remote viewing and speaker for the alarm sound. The alarm will be triggered when motion detect a movement made near the area. The webcam will then capture the picture and send it to the user via their assigned email. The email is sent using the Simple Mail Text Protocol (SMTP).

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CHAPTER 1

INTRODUCTION

1.1   BACKGROUND OF STUDY

In the modern society these days, time is keeping up with the evolution of the technology. The old day concept of house or premise is changing with the involvement of the technology itself. Implementing a technology to a home will introduce the concept of smart house. The advancement of the Internet has helped to increase the features in intruder system in a house or premise. Security system generally is defined as network of devices consisting of a trigger and an alarm. [1] The word "home" as defined in Oxford Dictionary means the place where one lives permanently, especially as a member of family or household or in other words, place where someone lives regardless whether they are family or not. [2] The word "security" on the other hand is defined as the state of being free from danger or threat. [3] When the word "home security" being put together, it can also be called as burglar alarm. According to The Free Dictionary by Farlex, burglar alarm means a warning device that is tripped off by the occurrence of a burglary. [4] Hence, one of the contribution to this project was that nowadays the risk of home invasion and intruder has increased. Therefore, creating a security system is essential to be installed in houses or premises. Besides that, another factor to be calculated as well is that some people cannot afford a good security due to cost aspect which make their house or premise vulnerable to threats and intrusion.