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Smart Home Automation Security System Using IOT Based on Fuzzdos

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ABSTRACT: The Internet of Things (IoT) is enabling innovative applications in various domains. To address this problem, we propose a framework for modeling and assessing the security of the IoT and provide a formal definition of the framework. Generally, the framework consists of five phases: (1) data processing, (2) security model generation, (3) security visualization, (4) security analysis, and (5) model updates. Using the framework, we can find potential attack scenarios in the IoT, analyze the security of the IoT through well-defined security metrics, and assess the effectiveness of different defense strategies. The framework is evaluated via scenario, which are the smart home monitoring scenarios. We use the analysis results to show the capabilities of the proposed framework for finding potential

KEYWORDS – Data processing, security visulation, security analysis

I.INTRODUCTION

Internet is the trendsetter of the new era and everything in day to day life is made easy using this advancement. In order to aid the tedious work and to serve the mankind ,today there is a general tendency to develop an intelligent system.T o add to this global trend the proposed system of “IoT based garbage monitoring and street light control” has been designed and developed to accomplish the various tasks in the current world to make things smart. In this research work we propose to create a prototype of smart city which will integrate control garbage collection systemand street light monitoring. The intelligent system is loaded with sensors,microcontroller,relay,driver circuit, level converter,wifi module and IoT board which work with the help of a start of the art microcontroller. We have used Arduino microcontroller. It is the heart of the device which handles all the sub devices connected across it.

II .OBJECTIVE

This project helps to the IoT devies more security systems

III. LITERATURE SURVEY

This project tell us show-IoT provides high degree of security and safety also energy saving. This project includes a description of SHAS-IoT that enable of monitoring sensors and remotely controlling actuators to flexibly construct security and safety services. Basically, this project which contains SHAS-IoT refers to automation of home appliances which can be viewed from security, automatic monitoring and controlling view. The major element of this project are sensors network, Arduino and mobile application

V. METHODOLOGY

. There are various researches where we have used Bluetooth connectivity with sensors or IoT devices to operate home appliances. But what about those people who don't know how to use a mobile phone or how to use Infrared remote control or the people who are living in the rural area where there is no proper internet.



So for them, we can implement home automation without Bluetooth connectivity or without using the internet where we can simply use various sensors as we have used IR sensors in this project where you don't need any remote control, Your movement is only enough to switch on or off the light bulbs.

VI. ADVANTAGES

- High quality security
- Higher reliability. Easy to use.
- Easy to access manage

VII. APPLICATIONS

- Smart home and agriculture use more security
- MATLAB has many advantages compared to conventional computer languages for technical problem solving.
- Algorithm development.
- Modeling, simulation and prototyping.
- Data analysis, exploration and visualization.

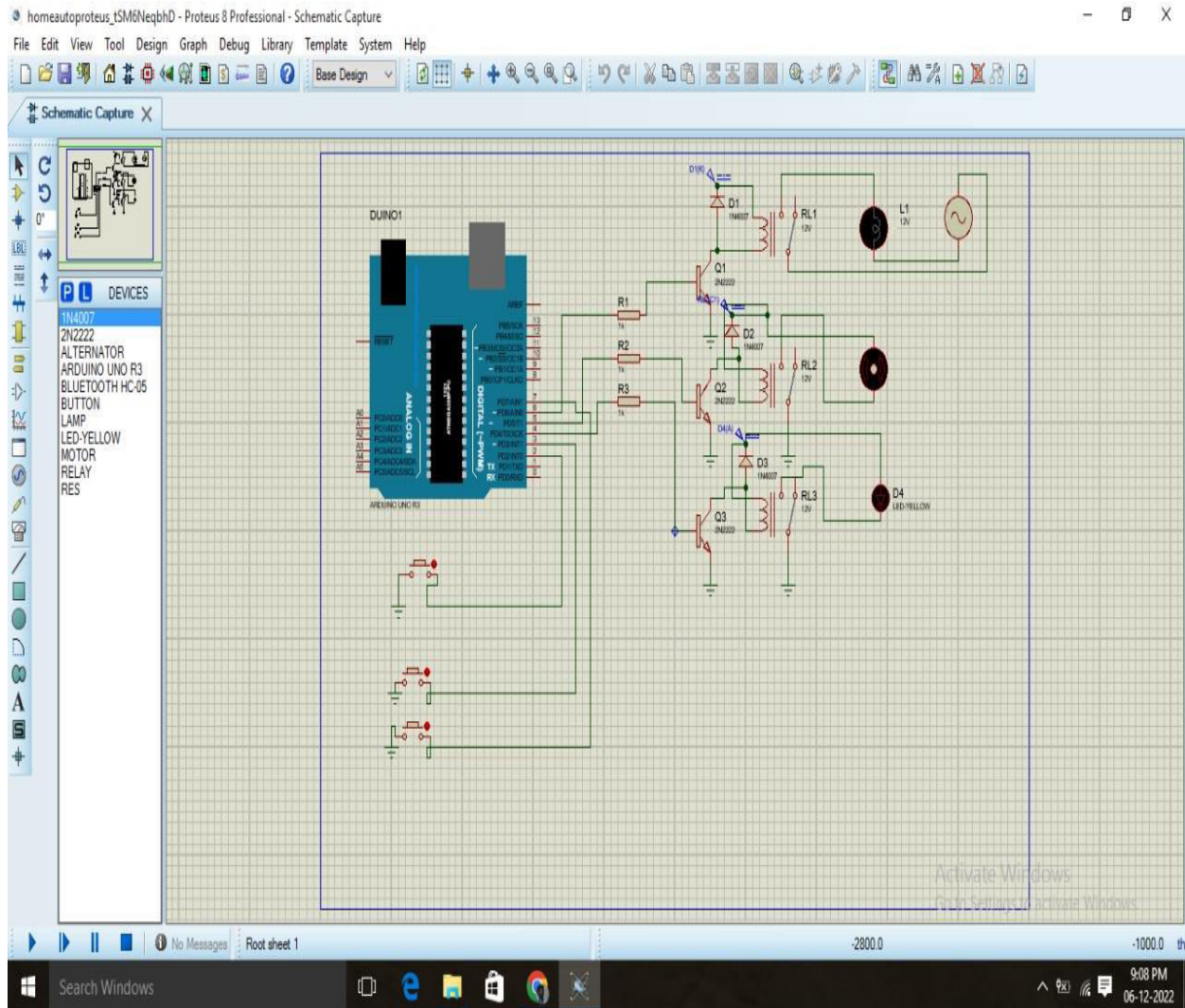
VIII. FUTURE SCOPE

- 1 Further research includes the performance evaluation of the developed prototype
- 2 smart home automation is automated using sensor while smart fan, light, door, is automated using temperature and humidity sensor with fuzzy logic
- 3 fuzzdocs can test any API in the API document without parameter restrictions
- 4 A Mobile application is developed which is a user interface to control the devices

IX. CONCLUSION

A fuzzy logic based home security system is proposed. It is observed that using this proposed concept, a better and flexible home security is provided. Proposed system inherits the properties of fuzzy logic and thus provides intermediary values as compared to Boolean logic bi-value outputs. This paper has presented the prototype design and implementation of smart home control system. The prototype uses six lamps, one speed-controlled fan, one window blind, and one security gate. The actual implementation of a smart home web service was also presented. The home appliances are successfully integrated with the smart home control system through relays. Further

X. RESULT



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