International Journal of Innovations in Engineering and Science, www.ijies.net

Future based Self learning Hybrid Model of Automatic Man less Smart City with Implementation of Remote access Using Automation

Miss. Prajakta Malakwade

Guru Nanak Institute of Engineering and Technology, Nagpur India 441502.. Email: prajaktamalakwade@gmail.com

Received on: 26 March, 2022

Revised on: 20 April, 2022,

Published on: 22 April, 2022

Abstract – The objective of an "AUTOMATED SMART CITY" is system-based approach for the design of this services, and the related protocols and technologies, discussing their suitability for the current environment. The aim is to convert the system in a fully auto-self diagnosed unmanned level which is user friendly and work with not only in support with the current technology but which also care for the user safety.

Keywords - Automation, Building automation, transport automation and Medical/safety automation, Remote access automation.

I- INTRODUCTION

A utomation is a recent communication paradigm that envisions a near future, in which the objects of everyday life will be equipped with microcontrollers, transceivers for digital communication. The concept of smart city is the ability of the system to work, diagnose, and troubleshoot in its own required way as per the requirement of the user .The application makes the identification of solutions capable of satisfying the requirements of all possible application scenarios a formidable challenge.

II-METHODOLOGY

The method adopted here is to work the system in a micro level just like the technology used previously but the main difference here is to combine the different system like home automation, transport automation and medical/safety automation to achieve the smart city concept.

Home Automation: The city can never be called a smart city unless it has proper automated house which is equipped with automated devices which supports the user in a day today life.

Transport Automation: Transport is the main lifeline of any city to keep the city up and running to an automated approach with perfect traffic control is necessary.

Safety Automation: The city without safety and precaution can never be smart. So as a safety measure it is equipped with proper alarm system and emergency devices which is done remotely.

III- FIGURES AND TABLES



International Journal of Innovations in Engineering and Science, www.ijies.net



The project consist of three major part as the smart city is a big idea: It is the combination of Building automation, transport automation and Medical/safety automation.



Fig 2- Home Automation



Fig 2- Traffic Automation

IV-INDENTATIONS AND EQUATIONS



Data compare (History and current): example: sleep time: Def 10pm - 6am (user) Days: if S3==1; UNDER 6.01AM - 9.59PM THEN RESET COMMAND == (DEF) BYPASS NEW UNTIL S3==1; WHEN S3==0 THEN REINITIALIZE DEF SLEEP TIME. IF DEF PROG = CURRENT PROG ; REMIND USER = 0 IF DEF PROG NOT = CURRENT PROG; REMIND USER = 1

THEN; STRING MSG = "FOLLOW DEF"; END COMMAND.



Incase of fault in any seq.

if sensor == 1 ; timer == 0; if sensor == 1 AND timer == 0; then reset timer seq, green == 1; orange == 0; red == 0; emergency shutdown == 1 (For all)

V-PROGRAM CODE

IF START==1 THEN OWNER=OWNER + 2; ENDIF; IF OWNER==250 THEN START=0; ENDIF; OWNER==250 AND START==0 THEN IF SENSORWB=1; ELSE SENSORWB=0; ENDIF; IF SENSORWB==1 THEN LAMP=1; ELSE LAMP=0; ENDIF: IF RETURNB==1 THEN OWNER=OWNER - 2; ENDIF: IF OWNER==0 THEN RETURNB=0; ENDIF; IF START_X==1 THEN OWNER_X=OWNER_X + 1; ENDIF; IF OWNER_X>=50 AND OWNER_X<=150 THEN DOOR=1; ELSE DOOR=0; ENDIF;

International Journal of Innovations in Engineering and Science, www.ijies.net

IF OWNER_X==200 THEN START_X=0; ENDIF; IF RETURN_X==1 THEN OWNER_X=OWNER_X -1: ENDIF: IF OWNER X==0 THEN RETURN X=0; ENDIF; IF SEC>=1 AND SEC<=10 THEN GRN1=1; RED2=1; ELSE GRN1=0; RED2=0; ENDIF: IF SEC>=10 AND SEC<=15 THEN ORG1=1; ORG2=1; ELSE ORG1=0; ORG2=0; ENDIF; IF SEC>=15 AND SEC<=25 THEN RED1=1; GRN2=1; ELSE RED1=0; GRN2=0; ENDIF: IF SEC==25 THEN SEC=0; ENDIF; IF AMB==1 THEN AMB_CAR=AMB_CAR + 1; ENDIF; IF AMB CAR==50 THEN IVS1=1; IVS2=1; ENDIF; IF IVS1==1 OR IVS2==1 THEN SEQ_ST=0; SEC=0; BYPASS=1; ELSE BYPASS=0; ENDIF; IF GO==1 THEN PATIENT=PATIENT + 2; ENDIF; IF PATIENT==150 THEN GO=0; ENDIF; IF PATIENT==150 AND GO==0 THEN LIGHT_1=1; FAN_1=1; ELSE LIGHT_1=0; FAN_1=0; ENDIF; IF TIME==10 THEN GO=1; ENDIF; IF PATIENT==400 THEN GO=0; ENDIF; IF PATIENT==400 AND GO==0 THEN LIGHT_0=1; FAN 0=1; ENDIF; IF GO_==1 THEN VEHICLE=VEHICLE + 2; ENDIF; IF VEHICLE==100 THEN GO_=0; ENDIF; IF VEHICLE==100 AND $GO_==0$ THEN PRESSURE SENSOR=1; ENDIF; IF VEHICLE==100 AND $GO_{==0}$ AND PRESSURE_SENSOR==1 THEN SHUTTER=SHUTTER - 2; ENDIF; IF SHUTTER==0 THEN GO =1; ENDIF; IF VEHICLE==300 THEN GO_=0; ENDIF; IF VEHICLE==300 AND $GO_==0$ THEN PRESSURE SENSOR=0; ENDIF; VEHICLE==300 IF AND $GO_{==0}$ AND PRESSURE_SENSOR==0 THEN SHUTTER=SHUTTER + 2; ENDIF;

VI-CONCLUSION

The result is promising as the whole system is working under as single loop which continuously compares the the data and auto adjust the the whole system as per the user and also make the user aware of the changes required for his own safety and precaution.

REFERENCES

- Point-n-Press: An Intelligent Universal Remote Control System for Home Appliances Kuen-Min Lee, Wei-Guang Teng, Ting-Wei Hou An intelligent universal remote control system for home appliances named Point-n-Press is proposed, which addresses the directionality feature, which enables easy and intuitive control by pointing to the target device to display the target's control interface on the screen of the remote controller.
 Design of Smart Home System Based on ZigBee S. Thibus. A TipPage wireless concornetwork for home
 - <u>S. Zhihua</u> A ZigBee wireless sensor network for home control subnet and home PC machine as the family gateway and home control center is proposed and WiFi wireless data communication technology access home subnet on the Android platform is proposed to achieve the ranking system for remote monitoring.
- [3] An Intelligent Power Outlet System for the Smart Home of the Internet of Things T. Fernández-Caramés An intelligent power outlet system that can be controlled wirelessly and that has been specifically designed to monitor electrical events in low-current loads is presented, being able to make the next generation of homes safer and smarter.