INTERNET OF THINGS

INDUSTRIAL SPECIFIC INTELLEGENCE FIRE MANAGEMENT SYSTEM

Team members

Team Lead: PAVATHARANI V

Team Member 1: MANIMARAN R

Team Member 2: MOHAMMED SAMEER A

Team Member 3: PRABHAGAR V K

Of

BACHELOR OF ENGINEERING

In

ELECTRONICS AND COMMUNICATION ENGINEERING

KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

COIMBATORE

LITERATURE SURVEY

Survey 1:

Azka Ihsan Nurrahman, Kusprasapta Mutijarsa have proposed a prototype for a centralized management system for homes or offices which helps better in managing the safety features. In this, home management system is required. This system controls the room lights by turning on and off automatically, it keeps the record of use of electronic device status, turning on and off the ac regulator automatically, it displays the room temperature in home. If fire is detected in the house, it turn on sprinkler at home, it supervises at home via surveillance cameras, take photos and store them including recordings of surveillance at home, it detects the movements of people at home, and provide notification when someone enters the house.

Survey 2:

Ondrej Krejcar proposed a model for location enhancement and personnel tracking using Wi-Fi networks. In this, he has represented the control system concept that is used in handling information of location and control unit operations. The location of the user present in the building, is obtained through Wi-Fi access points . We have studied this to understand the usability of the Wi-Fi networks in live tracking and then have utilized this functionality to track fire and give information about location of fire to various devices intimating people about the mishap.

Survey 3:

Ahmed Imteaj et.al. Studied the problems faced by factory workers in times when fire breaks out. They proposed a system using Raspberry Pi 3 which is capable of detecting fire and providing information about area of

fire. The Raspberry Pi controls multiple Arduino boards which are connected with several motors and cameras to capture the fire incident.In this, they discussed about the modern technology that can be used to reduce extremely unfortunate accidents caused by fire. We designed the whole system and calculated its effectiveness.

Survey 4:

Suvan Kumar "Gsm Based Industrial Security System" developed a fire notification system used for an industry fire accidents. Helped us in knowing not only sms we can send mail to the shops or industries.

Survey 5:

Karthiyayini J, Dhanya Shree, Simran Killedar, Ummadi Pawan Kumar and Kishan Kumar. Charging station for E-Vehicles using solar Using IOT. This helped to recharge vehicles using solar. We took the concepts used in IoT from this project.

Survey 6:

Rifat Husain "An Intelligent Fire Detection and Mitigation System Safe from Fire" Department of CSE, detects the fire and helps to safe guard the properties. This project made to think how to protect or extinguish the fire.