

Brainstorm & Idea Prioritization

Here we use this template to represent our problem statement and give our ides to prevent that. It gives workers to be work in trustable field. It helps to save so many peoples, workers, students and others life from fire Accidents.



Problem Statement

Without a Problem we can't get any inventions. Inventions are based on problems which we are faced in our daily life. Here we Take one problem in our day to day life and represent our ides.

Fire Detection Systems are now widely used in various safety and security applications. The major amount of fires tarts due to the electric short circuit. It leads to damage to property and also loss of life. To avoid that or to minimize the damage caused by fire outbreaks due to electric short circuits an IoTtechnology is used to control such a kind risk.

Traditional fire detection systems are not that effective and quick to alert the owner about fire, in case no one is present on the location. To overcome this problem in this paper we present the design and development of IoT based Fire Detection System. A system that combines qualities for fire, temperature and smoke detection, sendingalert Text Message about the fire to the user along with onsite alarm(buzzer), updating temperature, humidity and smoke on ThingSpeak cloud every 15 seconds, and it also moves manually with the help of Android Application. The Fire Detection System consists of four main parts: Multiple sensors, communication system (Bluetooth, GSM, NodeMCU), motion planning (Manual patrolling), and Android application for manual patrolling of the system. This Fire Detection system can be used in



Brainstorm

By understanding our problem statement some Ideas that come to my mind that address our problem statement.

→ 10 minutes

GOWTHAMAN R

Regular fire flammable materials in a evacuation drills safe area

Systematic

approach for

monitoring

and control

To get real

life data

using IOT

technology

devices

Gas

Detection

system

Fire alarms tested and maintained periodically

Emergency

alerts are

notified to

fire station and

authorities

Using Fire

retardant

materials for

interior

design

Storage area equipped with

Python code random sensor data

NAVEEN S

fre exit

application for

manual

patrolling

of the system

RAJA G

Installing

Early detection using smoke sensor

automated nidity, and smoke chamber form at periodic locking intervals

Sending alert text Electrical message about fittings must fire to the user be properly along with onsite maintained alarms

To provide a MAKE SPECIAL low cost fire ROOM FOR FIRE MANAGEMENMT alarm system

PRASANTH R

Maintenance

of the

emergency

lighting

Webapp to

monitor the

and Flame

Water tank with

separate piping

with hose reel

all the floors

If any gases are

present the exist

fans are

powered

nperature, gas

Existence of transferring Put up signs Provision of clear emergency and signage indicating through contact exist routs and population location of fire wireless information fo warning safety equipments emergencies methods Create node If flame is Multi sensors are Creating an detected red flow to used to detect Emergency sprinklers get data from

will be switched

on automatically

adequate

number of fire

extinguishers i

each block

any changes in

PERSONAL EMERGENCY EVACUATION PLAN

Cloudant DB nodes to store the recieved

deigned

to with stand

harsh industrial

conditions

USE SPECIAL

BLANKET FOR

INSTANT FIRE

A web page created analyze the data and response extract conditionaly to launch water sprinklers sensor data

smaller sub-groups.

Brainstorm Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into

→ 15 minutes

Preventive Measures





with hose reel all the floors

emergency lighting

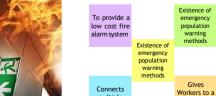
Fire alarms tested and maintained periodically

trustable place

patrolling

using IOT

Advantages







Prioritize

Priorities given to our project by time.

→ 5 minutes

co Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact



Regardless of their importance, which tasks are more feasible than others (Cost, time, effort, complexity,

