

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

Ajithkumar M S

Fire alarms Regular fire tested and flammable maintained evacuation materials in a periodically drills safe area Systematic Emergency approach for alerts are equipped with notified to monitoring a sprinkler and fire station and asmoke alarm and control authorities Using Fire To get real retardant for publishing life data materials for random

sensor

data

Ayyal raj N

Early detection using smoke sensor	Installing automated chamber locking	Updating temperature, humidity, and smoke on IBM cloud platform at periodic intervals	
Sending alert text message about the fire to the user along with onsite alarms	Electrical fittings must be properly maintained	Maintenance of the emergency lighting	
To provide a low cost fire	MAKE SPECIAL ROOM FOR FIRE MANAGEMENMT	Creating an Webapp to monitor the temperature, gas	

Alagar raj R

using IOT

technology

Ahamed fahd N

Existence of emergency population warning methods	transferring messages through wireless technologies	Put up signs and contact information for emergencies	Provision of clear signage indicating exist routs and location of fire safety equipments	Software deigned to with stand harsh industrial conditions	Water tank with separate piping with hose reel to all the floors
Create node red flow to get data from devices	Creating an Emergency fre exit	If flame is detected sprinklers will be switched on automatically	Multi sensors are used to detect any changes in the environment	USE SPECIAL BLANKET FOR INSTANT FIRE	If any gases are present the exist fans are powered on
Usage of Gas Detection system	Android application for manual patrolling of the system	Implementing adequate number of fire extinguishers in each block	PERSONAL EMERGENCY EVACUATION PLAN	Cloudant DB nodes to store the recieved sensor data	A web page created to analyze the data and response extract conditionaly to launch water sprinklers

interior

design



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 smaller sub-groups.

♠ 15 minutes

Preventive Measures









Advantages





trustable place



patrolling



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,

