

LITERATURE REVIEW
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In today's world, the use of wireless technology is becoming beneficial for the leisure and safety of people. Many wireless technologies like IOT, AR, AI, etc are in good demand for adaption of a new lifestyle. Keeping these inventions in the mark, we desired to create a sensor network for prevention and detection of hazards and using the same wireless sensors and then elimination of the cause which led to the hazard. The sensors encapsulated in the prototype are for fire, gas, temperature, humidity. Now the most crucial The parameter for hazard is fire. Temperature, gas, and humidity are the parameters that can be monitored at a prior notice for the preventing the occurrence of a huge fire. If these parameters are under control, it might prevent fire and vice versa.

For the elimination and extinguishing the fire, we have used water as the extinguishing element. The prototype also contains a voice module. This is a device which records audio notes and then plays them for an audio alert of the parameter detected. For example, if there is the presence of any harmful gas like carbon mono-oxide in the surrounding, the gas is detected by the sensor and the voice module plays the audio output "gas detected". It is necessary to record the appropriate voice audio note for each parameter respectively. Thus, this prototype can be very beneficial for workers in industries, power plants, etc for the prevention of a hazard that might destroy machinery as well as can risk the life of the workers.

WSN would revolutionize the world of technology if advanced changes would be made in its hardware and software. It would make lives easier and would, therefore, be a great boon to the society. It would be a whole innovative network using IOT. No use of fuel consuming machinery makes it environmentally friendly. It reduces the hazards to workers and adjoining population. It also leads to careful planning and emergency procedure.