

IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

IDEA 1:

Our suggested method is based on the Internet of Things-based Smart Child Safety Wearable Device System, which was created as an effective and reasonably priced IoT-based system for tracking infants in real-time. This technique is essential to better caring for lost children until they are reunited with their parents. Most wearable devices in the modern period are created depending on the location, activity, temperature, pressure, etc. of the child and alert the parents via GPS. In order to communicate between the child's wearable gadget and the parent's mobile phone, voice calls are meant to be used. The microcontroller board, which controls the system, handles voice messages, calls, and notifications that are sent and received via GPS.

IDEA 2:

The gadget provides for continuous child surveillance thanks to IoT monitoring and a GSM module. Additionally, it contains many sensors that are linked to a CPU and utilised to identify precise signals like heart rate, temperature, and other risks and notify the parents. The wearable acts as a backup source of power in the event of a power outage. There is also a panic button on the gadget. This button's function is to alert parents and the police of a child's whereabouts anytime they are in a dangerous situation. Their current location is accessed using a GPS module, and the information is delivered to specified contacts by SMS with the help of a GSM module. In this method, the gadget tries to provide child safety.

IDEA 3:

A transportable object with a pressure switch. The user can apply pressure to the device by squeezing or compressing it as soon as an attacker is preparing to attack the person or as soon as the person perceives any insecurity from a stranger. Instantaneously the pressure sensor detects this pressure, and a call is placed to the victim's parents' or guardian's mobile phone numbers that were put in the device at purchase, along with a regular SMS that includes the victim's location. The identical message will be delivered to the police if the call goes unanswered for an extended period of time. Additionally, a notification with the real-time location is sent if the user enters an area that is typically off-limits to them transmitted by regular SMS to the parent's or guardian's phone.

BENEFITS OF PROPOSED SOLUTION:

- Accessibility and affordability are simple.
- It is simple to locate missing children.
- The data is highly accurate.
- Parents are guaranteed peace of mind.
- It is highly reliable and efficient.
- It responds quickly and accurately.

DEMERITS OF PROPOSED SOLUTIONS:

- Devices emit Electro Magnetic Frequency (EMF), a type of radiation that has been identified as a carcinogen, or a material that can result in cancer in living tissue.

- Expensive at first, but once used, costs can be cut