IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

IDEA 1:

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. A typical SMS with the victim's location is immediately sent to the parents' or guardian's cell phone numbers recorded in the device at purchase, followed by a call. The identical message will be delivered to the police if the call goes unanswered for an extended period of time. Additionally, a message with the person's real-time position is sent to the parent or guardian's phone by standard SMS whenever the person enters an area that is typically off-limits to them.

IDEA 2:

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 system is controlled by a microcontroller board, which also handles voice messaging, calls, and notification sending and receiving over GPS.

IDEA 3:

The gadget provides for continuous child surveillance thanks to IoT monitoring and a GSM module. Additionally, it contains a large number of 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. They may retrieve their current location using a GPS module, and a GSM module helps send the information to predetermined contacts via SMS. This method aims to make the gadget unobtrusive while yet providing child safety.

Benefits of the suggested solutions :

- Missing children can be located with ease.
- High data accuracy ensures parent's piece of mind.
- High efficiency and dependability
- Quick reaction time and excellent accuracy.