

IoT Based Safety Gadget for Child Safety Monitoring and Notification

PROJECT OBJECTIVES

Team ID : PNT2022TMID44574

- The major goal of this project is to use modern technology to create a gadget that provides "Smart Child Safety" to protect children
- The purpose of this device is to help parents locate their children with ease.
- The proposed system intends to a device wireless technique in the form of embedded device for children that will serve the purpose of alerts and way of.
- We can monitor the child 24/7 in real time through the help of this live streaming which makes parents feel that they are beside their children ensuring children's safety.
- A smart IoT device for child safety and tracking is developed to help the parents to locate and monitor their children.
- This work mainly focuses on alerting the individuals around baby so as to locate the baby in safer zone before arrival of the parent.
- The purpose of this device is to help parents locate their children with ease.
- The main aim of the project is to provide security to the child.
- Project aims at providing parents with a sense of security for their child in today's time.
- Enable tracking of the child's location and capturing of data remotely such as temperature, pulse, respiratory rate, quality of sleep and many more. To show the child's actual data with reference values
- Enable sending of notification if the child is out of location or when the device realizes abnormal conditions/situations.
- Develop a prototype of IoT wearable smart band connected to parent's mobile apps so that they can monitor the actual condition of children at anytime and anyplace.
- The device has IoT monitoring and a GSM module that allows the to be monitored at all times.

- It also has numerous sensors that are connected to a CPU and are used to detect exact signals such as heart rate, temperature, and other dangers and alert the parents.
- By using the temperature sensor, touch sensor and heart beat sensors the emotional condition of the child will be detected and calculate.
- If any abnormal values are read by the sensor than an SMS is sent to the parents mobile and an MMS indicating an image captured by the serial camera is also sent.
- The future scope of the work is to implement the IoT device which ensures the complete solution for child safety problems.