

## **LITERATURE SURVEY**

### **1. REVIEW ON CHILD SAFETY WEARABLE DEVICES**

Mansi Kashyap, Shuchita Saxena, Shivani Agarwal, Rohini Singh

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Child safety and tracking has always a major concern for parents as the reports of crimes on children are increasing nowadays. With this motivation, a smart device for child safety and tracking is made to help the parents to locate and monitor their children. Today child's safety is a decisive issue for parent's concern. Everyday there is a news of little one being missing. They are being kidnapped or trafficked. Sometime they fall into manhole, borewell or pit. Parents need to take care of their kids while they are outside home, especially the toddlers. The motivation of this topic came from the increasing demand for the safety of little ones from getting lost mostly in the major crowded areas. This paper provide an idea of wearable device for little ones. This device provides us the location details of our kids and it doesn't require a tetchy person or a smart phone to use it. The objective of the device is to help caregivers to keep an eye on their child in an easy manner and to assist them to find their kids. Presently there are many tracking devices that help to track their child's activity. However, Wi-Fi and Bluetooth are unpredictable and unreliable medium of communication. So, this paper provides guardians a path for ensuring security of their kids in today's environment.

### **2. IoT Based Smart Security and Safety System for Women and Children**

Now a days, women and children are facing various issues like sexual assaults. Such violence will definitely have huge impact on the lives of victim. It also affects their health and their psychological balance. These kinds of violence keep on increasing day by day. Even school children are kidnapped and sexually abused. We are living in a society where a nine months old girl child doesn't have security, the child was kidnapped, raped and then murdered. On witnessing those violations against women, its impulses us to do something for women and children safety. So, in this project we have planned to propose a device which will act as a tool to provide security and ensures the safety of the women and the children. Microcontroller, GSM and GPS module are used to send notifications and current location of women to various mobile numbers in their contact. In addition, this project will also act as a safety measure which will stun the opposition for few seconds. This project will help us to rescue many women and children from those fiendish in the society.

### **3. Child Safety Wearable Device**

Asghar Pasha, Bi Bi Khatija, M. Shaista Tarannum, K. R. Harris, Nida Sayedi, Aseema Sultana

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In Today's world, the wearable gadgets comprise an increase in market provisioning, wider openings for extemporized authority over security issues for kids in day care and schools. Likewise, women

security keeps on being one of the most vital issue that can be addressed today, consequently security of women at working environments, public places is progressively noteworthy issue. This undertaking means to give a total start for secure and wellbeing framework. The thought fills in as confirmation for a wearable gadget with coordinated plan to shorten the need of security issues to women and children. The proposed device is equipped with two modes, adult mode and the child mode that operates accordingly. The sensor empowered gadget gives the real time location and well-being of women and children after accepting signals from sensors. The idea behind this proposed system empowers guardian to locate women and children effortlessly. Pi-camera is used to capture the image in case of emergency. Procurement of raw information from the sensors, trailed by action acknowledgment. Realtime checking of information is accomplished by wireless sensors data to an open source cloud platform [1]. This gadget is modified to consistently screen the subject's parameters and make a move when any perilous circumstance occurs. It is accomplished by detecting the differences in monitored signals, followed by appropriate action taken by means of notifications or alerts. In this manner, the attentiveness of implementation to SMS (short message services) content engaged correspondence medium between the wearable gadget and the guardian, nature for GSM (Global System for Mobile) convenient correspondence is for all intents and purposes present everywhere. The secondary measure used as a piece of this endeavor is the general population show in enveloping of the tyke's and women 's who could in a brief instant react for their security till the guardian arrives or they could contact the guardian and help find them. To send mail to child's parents we are using SMTP [3] (Short Message Transfer Protocol). All these processes are controlled by micro controller and raspberry pi trough internet of things.

#### **4. School Child Tracker System Using IOT**

Shruti Anant Tiwarkar, Shaila Suresh Bhumannavar, Gaurav Kishor Kshirsagar, Aishwarya Dinkar Ghare

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Recently many cases of missing children between ages 5 and 15 years are reported. Parents always worry about the possibility of kidnapping of their children. So some schools have implemented systems which helps to track the live location of child which travel through school bus. It only tracks the location of school buses and notifies the admin who's at school side. So what about those students who travel individually. Here this paper proposes an Android based solution to aid parents to track their children in real time. Nowadays, most mobile phones are equipped with location services capabilities allowing us to get the device's geographic position in real time. The mobile application use the GPS and SMS services found in Android mobile phones. It allows the parent to get their child's location on a real time map and its marked attendance at school. Also display the attendance of particular student to the teacher. The system consists of two sides teacher side and parent side.