

## **IBM- NALAIYA THIRAN PROJECT**

### **IoT based safety gadget for child safety monitoring & notification**

#### **LITERATURE SURVEY:**

<b>S.NO</b>	<b>TITLE OF THE PAPER</b>	<b>AUTHORS AND YEAR</b>	<b>PROBLEM ADDRESSED BY THE PAPER</b>	<b>METHODOLOGY USED</b>	<b>LIMITATION OF THE SYSTEM</b>
1.	‘Visual contextual awareness in wearable computing	Starner, T Schiele, B and Pentland, A. (1998) ‘	Child and women safety is a challenging problem nowadays due to antisocial elements in the society. The crime rate is day by day increasing	Smart phones are playing major role for ensuring the safety, where some mobile based applications provide alert systems. During the emergency, mobile apps alert the control room of nearby police station or caretakers of children	The literature shows that location tracking devices are available in the market, but it does not provide the complete solution to the problem
2.	Child safety wearable device’, International Journal for Research in Applied Science & Engineering Technology	AkashMoodbidri, Hamid Shahnasser (Jan 2017)	he parent can send a message to the GSM module, according to the message information the GSM module reply back with particular details of the children.	The location can be seen on the Google map. When a particular child is facing an emergency situation, device button should be pressed so that the device captures	There have been many Methods and systems implemented to solve it. In [5],to solve child caring problem global position system (GPS) based solution with two nodes was proposed
3.	Smart security solution for women and children safety based on GPS	AsmitaPawar, PratikshaSagar, TejalSasane, KiranShinde	Children below six years can not explain in words directly to their parents about the	This device procures information such as heart rate, physical body	Stretch sensors are placed to measure upper limb and body movement. Worn as clothing, the sensors

	using IOT’.	(March– 2017)	problems, hence a wearable device is developed	movements and send it to the parents in real time.	give the required information
4.	Smart security solution for women and children safety based on GPS using IOT	Nitishree, (May-June, 2016) ‘A	The device an analysis of skin resistance and body temperature was made. Body position is determined by a triple axis accelerometer.	After acquiring raw data activity recognition is done and a specialized machine learning algorithm is employed in this process	The jacket consists of different sensors for to detect the activity of the body. In paper [10], there are two modules namely Wi-Fi and audio play back module.
5.	GPS Based Child Care System using RSSI Technique’, Proceedings of the Malaysia International Conference on Communications	Kok Sun Wong, Wei Lun Ng, Jin Hui Chong, CheeKyun Ng, AduwatiSali, Nor KamariahNoo rdin, (15 -17 )December 2009).	The touch sensor has three main components on the circuit board. The first component comprises of resistors, transistors, capacitors, inductors, and diodes whose area is measured physically and its analogue signal is sends to an amplifier	The heartbeat sensor is used in the proposed system for measuring the pulse rate. There is a heartbeat pulse sensor which is combined to simple optical heart rate sensor with amplification and nullification circuitry making it is fast and easy to get reliable pulse reading.	After sending SMS the serial camera captures the snapshot in real time and is stored in SD card. From the SD card through the GSM module an MMS is sent to the particular mobile phone