LITERATURE SURVEY

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S.No.	Title	Authors	Abstract	Observation and Takeaway
1	Child Safety Monitoring System Based on IoT	N. Senthamilarasi, N.Divya Bharathi, D.Ezhilarasi, R.B.Sangavi	The overall percentage of child abuse filed nowadays in the world is about 80%, out of which 74% are girl children and the rest are boys. For every 40 seconds, a child goes missing in this world. Children are the backbone of one's nation, if the future of children was affected, it would impact the entire growth of that nation. Due to the abusements, the emotional and mental stability of the children gets affected which in turn ruins their career and future. These innocent children are not responsible for what happens to them. So, parents are responsible for taking care of their own children. But, due to economic condition and aims to focus on their child's future and career, parents are forced to crave for money. Hence, it becomes difficult to cling on to their children all the time. In our system, we provide an environment where this problem can be resolved in an efficient manner. It makes parents to easily monitor their children in real time just like staying beside them as well as focusing on	In the proposed methodology, the authors highlight the usage of several different IoT components and limits to which they're useful. At the very core, the proposed system makes use of a GPS sensor to detect the accurate location of the child. Also, they use a webcam to capture the surrounding environment in which the child is present. For us, this looks like a far-fetched solution and the whole idea of using a webcam is not very data efficient.

			their own career without any manual intervention. .	
2	A Comprehensive Smart IoT Tracker for the Children, Elder, and Luggage With the Assistance of Mobile App	A. Z. M. Tahmidul Kabir, Al Mamun Mizan, Plabon Kumar Saha, Golam Kibria, Akib Jawad Ta-sin, Md Saniat Rahman Zishan.	This paper represents an IoT based tracking system, through which it is very easy to track the child, elder, or any type of luggage. This system has separate features for tracking each of these things, which have been completed by the IoT device and the Android app. It is possible to track anything manually or automatically with this device. NodeMCU, GPS, and GSM have been used as hardware to build the system, and Firebase Server and Google API services have been used for the Android app. Parcel exchange has become very common nowadays. With this system, in addition, the location of the parcel can be easily tracked, and administrative help can be taken for any unforeseen situation.	In this paper, along with the existing methods such as GPS and all, the authors implement the use of Android Apps to detect and track the child's location. While this method is effective to some extent, it may not be very data efficient and the app also looks more like a boilerplate one.
3	Child Activity Monitoring using IoT	Shikha Srivastava, Shubham Kumar Tiwari, Shruti Jha, Monika Singh.	Child care has become a significant challenge with the emerging modern work culture, where both men and women are ever occupied with their work schedules. On the other hand, digital technologies are revolutionising our day-to-day activities and this technological advancement can also play a significant role in the field of child care. This research work intends to design and develop an IOT based child monitoring system to monitor the child from any location. The proposed system has been designed to identify any strange activity and send either text messages or	The proposed methodology here not only tracks the child's location data but also their current doings. This uses ML algorithms to enhance and find the child's current activity using face detection. While this model has expanded scope, this may be kind of overkill. Also, the use of machine learning makes it not so data efficient.

			snapshots of the child to the monitoring parent. The proposed Internet of Things (IoT) based child monitoring system is a well-organised low-cost system for real-time monitoring of the child. It allows parents to easily monitor their children by continuously tracking their activities.	
4	Design and Implementation of a an IoT-based Kids Tracking System	Souad Kamel Mekni	Due to the increase of accidents that may affect children, there is a need for a robust system that enables real-time tracking of kids in the nursery school. With the emergence of internet of things (IoT) paradigms and the potential of Radio Frequency Identification (RFID), used extensively in many fields, developing such a system becomes feasible. In this paper, we propose a complete low-cost design and implementation of an IoT-based system that allows schools to track the movement of kids and to automatically take the attendance of kids and teachers during their presence in the nursery through RFID tags and a mobile application. The developed automated tracking kids system was tested successfully under different scenarios which lets users be able to use it in many nursery schools with relatively low cost.	This methodology uses the RFID tag technology to track the location of the children. These RFID tags work on very specific situations such as when the child has a perfect time schedule and all the locations that come into the schedule have RFID enabled entrances or some point of entry and the ability to scan the RFID tags. While this implementation has a relatively lower cost than other proposed systems, this can work in only some specific situations.
5	IoT-Based Smart Band For Tracking Position And Monitoring Conditions Of Children	Lathifah Arief, Taufik Fadhlul Hadi, Tri A. Sundara.	Supervision of children on a 24-hour basis is not easy, with parents who are often busy always coming and going, making children often not always be supervised directly by parents. One way to always supervise the	This proposed system uses the combined advantage of IoT device and a mobile application. While we've already

			children directly is by making sure the child is always near the parents. But this method is not good because children need to establish a connection with the outside world and interact with other children. With the development of technology, a device is made to enable parents to monitor their children. This device is made along with the mobile application to display the information about the children and their situation by collecting data from the database, transmitted by the device. Using a pulse sensor to capture children's heartbeat with accuracy up to 85% with 5 data comparison between sensor and stethoscope and 15 device's location data with average deviation as far as 14.2 metres.	seen this implementation, this one has some fault check mechanism built into it. As seen in the abstract, for any location data that it collects, it simultaneously collects the same data 5 times on a specific time interval to verify if the data collected is accurate and error-free. This one is same on the hardware side, but has improved advantages on the software side.