LITERATURE SURVEY

IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

JOURNAL PAPER I:

Child Monitoring and Safety System Using WSN and IOT Technology

In this study, the design and implementation of a sensor-embedded health monitoring device for safety and emergency services are presented along with a portable IOT-based safety and health monitoring system for kids. It is well known that technological development is accelerating quickly. However, very little technology is used across a wide range of industries. We are aware that challenges are unique to each age group. However, there is practically little security for kids. Regarding child safety, numerous incidences have been reported. Schools today worry a lot about how their students will get to school and other locations, as do the parents. As a result, it is extremely difficult to supervise and ensure the safety of schoolchildren. We are introducing an embedded system that is IOT-based in this project. To ensure the child's safety, we propose a system that would constantly track their location as well as their physical characteristics. Smart child tracking and monitoring is offered by the system.

Reference:

Child Monitoring and Safety System Using Wsn and Iot Technology P.Poonkuzhlai1,R.Aarthi,Yaazhini.V.M, Yuvashri.S, Vidhyalakshmi.G ,AssociateProfessor,Assistant Professor, RMD Engineering College, Thiruvallur, India,, poonkuzhali.ece@rmd.ac.in1, aarthi.ece@rmd.ac.in U.G Students, Department of Electronics and Communication Engineering, RMD Engineering College., Annals of R.S.C.B., ISSN:1583-6258, Vol. 25, Issue 4, 2021.

JOURNAL PAPER II :

Child Monitoring System using GPS Child Tracking System

Today's parents raise their kids while working long hours. Due to the increasing security risks children face, both parents must monitor their children's activities. This essay offers a method for

utilizing an Android phone to monitor a child's activities. Technology can also provide parents with crucial information about their children's safety. The article also provides instructions on how to use this technique to safely enclose a child. The technology can monitor the child's movements and enclose them in a secure space. It can also provide the parents with the precise geographic data they need. The thing has a camera on it. On an Android phone, it can be operated by adhering to the directions from the software hand function. The video camera can capture the child's movements. The major goal of this project is to create a child monitoring system based on the Internet of Things that will allow parents to keep an eye on and recognize their children's behavior even while they are not at home. It is a state-of-the-art baby monitoring system that is smart, safe, and designed to take good care of a newborn. In order to care for and safeguard the child both within and outside of the institution, this method takes into account all the smallest elements. using resources and methods such as Internet of Things (IOT), real-time video surveillance, cloud computing (data storage), and user-generated content An intuitive web application encourages creativity and intelligence (for User Controls). The child is equipped with a variety of sensors and modules that can track every movement. Sensors and module data will be regularly stored and analyzed using information gathered from the cloud.

Reference:

CHILD MONITORING SYSTEM USING GPS CHILD TRACKING SYSTEM Sadhana B.,Assistanceprofessor.,Department of Information Science and Engineering CEC Bantwal.Navya A, Nidhishree, Vidhyashree, VishwaStudentsDepartment of Information Science and Engineering CEC.*International Journal of Engineering Applied Sciences and Technology, 2022*Vol. 7, Issue 1, ISSN No. 2455-2143.

JOURNAL PAPER III:

IoT-based Child Security Monitoring System

Today, there are more crimes involving children, which raises concerns about child protection. The aim of this research is to propose a smart band for child safety that is based on the Internet of Things. Semi-structured interviews and online surveys are two data collection methods. The online survey gathers feedback by asking questions electronically and requesting respondents to submit their answers online. In a semi-structured interview, the researcher meets the respondents and asks them some predetermined questions as well as some unexpected ones. Based on the data collected, a smart band has been suggested to monitor children's safety. Because they are aware of what is happening remotely, parents can intervene if something goes wrong. This gadget will be enhanced in the future by the addition of features and software to create. It functions like a phone, including texting, gallery, Google, and YouTube capabilities while also strengthening child safety precautions.

Reference:

IoT-based Child Security Monitoring System Lai Yi Heng1,* Intan Farahana Binti Kamsin2 *1,2 Asia Pacific University of Technology and Innovation, Technology Park, Bukit Jalil, Kuala Lumpur, Malaysia *Corresponding author. Email: TP050974@mail.apu.edu.my.,Atlantis Highlights in Computer Sciences, volume 4* Proceedings of the 3rd International Conference on Integrated Intelligent Computing Communication & Security (ICIIC 2021).

JOURNAL PAPER IV:

Smart IOT Device for Child Safety and Tracking

These days, there are more reported crimes against children, which raises important questions concerning child protection and monitoring. A smart Internet of Things (IoT) device for child safety and tracking has been designed to help parents find and keep a watch on their children. A Link It ONE board, which contains embedded C programming, is used to build the system. It connects to temperature, heartbeat, touch, GPS, GSM, and digital camera modules. The technology automatically sends an SMS to the parent or caregiver when a child requires rapid attention during an emergency, which makes the task novel. The findings of the parametric analysis are provided using the child's touch, temperature, and heartbeat as parameters. The aforementioned system ensures the monitoring and security of kids.

Reference:

Smart IOT Device for Child Safety and Tracking M Nandini Priyanka, S Murugan, K N H Srinivas, T D S Sarveswararao, E Kusuma Kumari. International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-8 June, 2019.

JOURNAL PAPER V:

IoT Based Smart Gadget for Child Safety and Tracking

This research focuses on creating a gadget that can utilize GPS to follow a child's whereabouts and have a panic button that can alert the parent by dialing. To manage and track the device at any time, Android parental control software was developed. The parental phone is always connected to the smart device, allowing the parent's phone to make and receive calls as well as send and receive SMS on the device through GSM module. Additionally, the device has wireless technology, allowing you to connect it to a monitored area; You can keep a virtual check on your youngster if the binding device alerts you if the device leaves the monitoring range. programmed that keeps track of a device's health Heart rate, pulse, and temperature are a few things to look for that a parental app can track. The device also monitors whether it is plugged in or not via a contact switch, alerting the parent if it is unplugged.

Reference:

IoT Based Smart Gadget for Child Safety and Tracking N. Manjunatha1, H. M. Jayashree2, N. Komal3*, K. Nayana4 *1Assistant Professor, Department of Electronics and Communication Engineering, East West Institute of Technology, Bengaluru, India 2,3,4Student, Department of Electronics and Communication Engineering, East West Institute of Technology, Bengaluru, India* *Corresponding author: nkomaljain12@gmail.com., International Journal of Research in Engineering, Science and Management Volume-3, Issue-6, June-2020 www.ijresm.com | ISSN (Online): 2581-5792.