LITERATURE SURVEY

ON

IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

ABSTRACT:

The overall percentage of child abusements 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 their own career without any manual intervention. Many family's spends their time for work and social duties but since they need care of family. The current situation of our country is not comfortable for monitoring children in school. child safety is the major concern for many of the parents. Lack of child monitoring in school affect the child's behaviour. Under age children may be premature in the way they act and planes to be most of the human behaviour is shaped in childhood stage,in order to get acceptable behaviour child monitoring system is necessary. This IoT-enabled digital system architecture integrates the Cloud, Mobile and GPS technology to precisely locate the geographical location of a child on an event map.

LITERATURE SURVEY:

- **M. Madhuri, A. Q. Gill and H. U. Khan [1]-"** The proposed integrated digital technology architecture such as the Salesforce cloud, Mobile Application and GPS can be easily used for tracking a missing child in an event. This work is a first steps towards the development of a working software for a Smart Child Tracker "
- **Srinivasan, S. Abirami, N. Divya, R. Akshya and B. S. Sreeja [2]-"** This paper has focused mainly on the autonomous operation of the safety system. Combined usage of three different vitals has increased the accuracy of detecting the abnormal situation. Usage of machine learning has improved the accuracy and made the system intelligent"
- **B. Ranjeeth, B. S. Reddy, Y. M. K. Reddy, S. Suchitra and B. Pavithra, [3]-"** This IoT based device brings a revolutionary change in the current problems regarding child safety issues. Child safety is the most common problem in the world. By this project, the child missing and kidnap issues can be brought down and help the society".
- **M. Benisha *et al.*, [4]-"** The planned mechanism provides a better methodology to view & track the location of the children in terms of latitude and longitude which can additionally track using Google maps It is used by the Arduino module to overcome GSM by using IT to better Communication and heartbeat sensor and MEMS accelerator is also added. If an accident happens, message with location sends instantly to the registered contacts and also to the nearest police stations **"**

REFERENCE:

[1] M. Madhuri, A. Q. Gill and H. U. Khan, "IoT-Enabled Smart Child Safety Digital System Architecture," *2020 IEEE 14th International Conference on Semantic Computing (ICSC)*, 2020, pp. 166-169, doi: 10.1109/ICSC.2020.00033.

[2] A. Srinivasan, S. Abirami, N. Divya, R. Akshya and B. S. Sreeja, "Intelligent Child Safety System using Machine Learning in IoT Devices," *2020 5th International Conference on Computing, Communication and Security (ICCCS)*, 2020, pp. 1-6, doi: 10.1109/ICCCS49678.2020.9277136.

[3] B. Ranjeeth, B. S. Reddy, Y. M. K. Reddy, S. Suchitra and B. Pavithra, "Smart Child Safety Wearable Device," *2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)*, 2020, pp. 116-120, doi: 10.1109/ICESC48915.2020.9156001.

[4] M. Benisha *et al*., "Design of Wearable Device for Child Safety," *2021 Third International Conference on Intelligent Communication Technologies and*

Virtual Mobile Networks (ICICV), 2021, pp. 1076-1080, doi: 10.1109/ICICV50876.2021.9388592