

LITERATURE SURVEY

NANDHA ENGINEERING COLLEGE (Autonomous)

DEPARTMENT:

COMPUTER SCIENCE AND ENGINEERING

DOMAIN NAME:

INTERNET OF THINGS

PROJECT NAME:

IOT BASED SAFETY GADGET FOR CHILD SAFETY
MONITORING AND NOTIFICATION

TEAM MEMBERS:

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S.N O	Title	Techniques & Mechanisms	Authors	Findings	Pros/Cons
1	My Kid: An Android Based Child Tracking System	Android, GPS, GSM, Ipc2378	Kumar, M. T., Ravi, A. P., Balachandran, A., Reshma, K. C., & Suresh	My Kid is a child tracking system which contains child module with the assistance of which kid press the push button and PIC18F45K22 microcontroller gets on and send signal to GPS. At the point when supply is given to GPS board(fig.), by detecting of current position of kid and the information get sent to microcontroller.	Pros: child's position and its location is sent to the guardians Cons: network coverage
2	Child tracking system	GLONASS, GPS, A-GPS, voice-monitoring System	Lee, Chun Hong	App that can track and monitor the child location. Child monitoring is always come to a problem for parent who need to work day and night in the company. The parent will get problem in knowing where their child going or leaving during their working hour.	Pros: These systems offer the features in which the parents can track their child in real time and the alarm triggering feature which will trigger the alarm when counter with a specific event Cons: The limited number of choices, price
3	"An innovative approach for women and children's security-based location tracking system	GPS to detect location and GSM mechanisms	Velayutham R., M. Sabari, and M. Sorna Rajeswari	Now-a-days children and women are facing many securities related problems. In such situations, they are helpless and don't have any way to protect them or inform it to their family members.	Pros: This system helps them to seek help in any critical situation Cons: Network coverage.
4	Tracking system—A proposed model on literature review	GSM used for mobile communication & GPS latitude and longitude positions through direct satellite connection	Kalaiselvi, K., and S. Karunya.	monitors children, adult or aged people in an individual basis. This type of tracking is done due to children who helpless at the time of lost from school to home or home to school	Pros: To track and monitor the children easy
5	Child safety wearable device	GPS, Temperature, buzzer	Moodbidri, Akash, and Hamid Shahnasser	This paper describe SMS text enabled communication medium between the child's wearable and the parent as the environment for GSM mobile communication is almost present everywhere	Pros: 1.The major advantage of the purpose of this device is to help parents locate their children with ease. Cons: 1.Removing the device unit from the hand or gets damaged is prohibited

6	RFID BASED SCHOOL CHILDREN SECURITY SYSTEM	TRANSFORMER RECTIFIER PIC MICROCONTROLLER GMS MODULE RADIO-FREQUENCY IDENTIFICATION (RFID) RTC [DS-1307]	RHemalatha, Divakar S., D. Logesh, S. Manoj Kumar, and S. Manoj Kumar	This security system endeavours the safety transportation for the school children in a daily life	Pros: 1.This system uses RFID for detecting the child is enter or leaves the bus along with the stopping place of the children Cons: 1.Wearable is effectively compare to this process
7	IoT based smart school bus monitoring and notification system	Rfid, gsm	Raj, Judy Thyparampil, and Jairam Sankar	The focus is on the daily route from home to school and vice versa, assuming the use of school buses	Pros: 1.RFID technology efficient tracking capabilities is tested in children's tracking and monitoring during their trip to and from school by school buses. Cons: 1.Network issues
8	Activity Tracker Wrist Band for Children Monitoring using IOT	TEMPERATURE SENSOR,HEART BEAT SENSOR,GSM	T. Bhanupriya, Dr. T. VP. Sundararajan	This systemmainly focuses on a wireless method which will alert andcommunicates with secure medium and can perform the realtime monitoring of particular zone and detect the safety withefficient accuracy	1.The Activity tracker can been used for the elderly ill people, physically challenged and children in a better way fixed withreal time cameras for more precision based results and realtime accuracy
9	. "Design and Implementation of a Smart System for Children Tracking	Iot based QR code technology	Khutar, Dawood Zahi, Omar Hashim Yahya, and Haider Th Salim Alrikabi	The application itself will generate a fixed QR code for each student that will be placed on a card that contain the student personal information.	1.The parents' application will display a map that show the current bus position and it will be updated after each period, and the intervals 2.Easy to Hack and interrupt.
10	A Smart Security for Child Safety	RFID, GPS, GSM	Soundarya, P., M. Nivetha Kumari, and J. Jayachitra	This security Wearable Device will keep the child safe and also the abusement against the child will be decreased	1.This application will prevent the child from harassment and kidnapping 1.Removing the device unit from the hand or gets damaged is prohibited