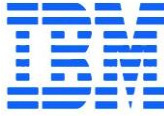




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## **HX8001 - PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP**

### **CHILD SAFETY MONITORING AND NOTIFICATION**

**Domain of the Project :SAFTEY (IOT)**

**Batch ID : B12-6A2E**

**Team ID :PNT2022TMID13499**

**Academic Year : 2022-2023**

**Year/Semester : IV/VII**

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# Objectives

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- Enable tracking of the child's location and capturing of data remotely such as Temperature, pulse, respiratory, quality, of sleep and many more.
- To show the child's actual data with reference values.
- Enable sending of notification if the child is out of location or when the device realizes abnormal conditions.
- To trigger the alarm and enable automatic video recording whenever the emergency button is pressed.
- Emergency notification along video will be send to and display in the parents mobile apps.

# Abstract

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- Nowadays, crime rate associated with children keeps increasing due to which draws peoples' attention regarding child safety.
- This research is conducted to propose a child security smart band utilizing IOT technology.
- A smart IOT device for child safety and tracking is developed to help the parents to locate and monitor their children.
- By this, parents know what is happening remotely and can take actions if something goes wrong.

# Introduction

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- Basically children cannot complain about abusements which they face in their daily life to their parents.
- It is also difficult for parents to identify their children are being abused.
- Since to prevent children before being attacked, an autonomous real-time monitoring system is necessary for every child out there.
- In this system, the collected values from every sensor like temperature sensor, pulse rate detection sensor GPS are used to detect the status of the child and alerts the respective guardians using GSM accordingly.

# Literature Survey

TITLE	AUTHOR & YEAR	JOURNAL NAME	REMARKS
IoT Based Child Security Monitoring System	Lai Yi Heng, Intan Farahana Binti kamsin 2021	Atlantis Press	In this project the device is not good enough and does not contain sufficient functions to operations like mobile phone also some of the signal problems.
Child Monitoring and Saftey System Using WSN and IoT Technology	P.Poonkuzhlai ,R.Aarthi, Yaazhini, Yuvarshi, April 2021	Annals	In this project the utilization of the technologies in various sectors id very low. We know that people of different age groups faces different difficulties.security of children is low.

# Literature Survey

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TITLE	AUTHOR & YEAR	JOURNAL NAME	REMARKS
Wireless Child Tracking Device using Sensor Network in IoT	V. Sabaresan, Varshini .K March 2021	Journal of Innovative research in Technology	In this project smart watches with GPS trackers are of higher technology and children are prohibited from wearing it to schools . Most of the schools does not implement the tracking system inside school.And low battery life.
A Literature Survey on child Saftey wearable Device	K. R. Harris, Nida Sayedi, May 2020	International Journal of Research in Engineering and management (IJREM)	In this project wearable devices for the weight control and the physical activity monitoring and some times the disease was not prevented and it causes serious of health problems.

# Literature Survey

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TITLE	AUTHOR & YEAR	JOURNAL NAME	REMARKS
IOT based Smart Security and Saftey System for Women and Childern	k. Srinivasan, R. Nivetha; k. Mithun March 2020	Maple Tree	In this project the monitoring of the chid or women has some location or network issues sometimes the data not stored in a Raspberry Pi to database not visible in web page.
Design and Implementation of Women Saftey System Based On IoT Technology	B. Sathiyasri, U. Jaishree, K. Jothi Sree 2021	International Journal of Recent Technology and Engineering (IJRTE)	In this project the microcontroller does not give right cmmands and will not send the GSM will not send the SMS to thr registerd mobile numbers so we cant get the message.



# Literature Survey

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TITLE	AUTHOR & YEAR	JOURNAL NAME	REMARKS
Child Saftey Wearable Devices	Mansi Kashyap, Shivani Agarwal, Roshini Singh 2021	International Journey of Scientific Reasearch and management Studies (IJSRMS)	In this project T save Time crimes happening we are developing smart child and system is wearable .This helps gaurdians to locate their children and women faster using internet of things it is more efficiency.
Child Saftey Monitoring System based on IoT	N. Sangavi, R. Diviya 2021	Research Gate	In this project child safety and tracking to help the parents to locate the monitor their children using Linkit ONE programmed in embedded in C.

# Literature Survey

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TITLE	AUTHOR & YEAR	JOURNAL NAME	REMARKS
Design Ceat Monitoring System for Public Transport	Niyigena Issa Dr. Jimmy 2022	University of Rwanda	In this project the proposed system has been tested and display data obtained from several streets and the accuracy of the data through GPS on several days at different times.It displayed in mobile applications.
Advance System for Heart rate Monitoring based on IoT	Arpita suri 2021	Bioscience and Biotech	In this project the heart beat control system is developed the capability of heart pulse sensor for data acquisition heart beat of human captured as data signals and processed in microcontroller and transmit to Bluetooth to mobile app <sub>9</sub>

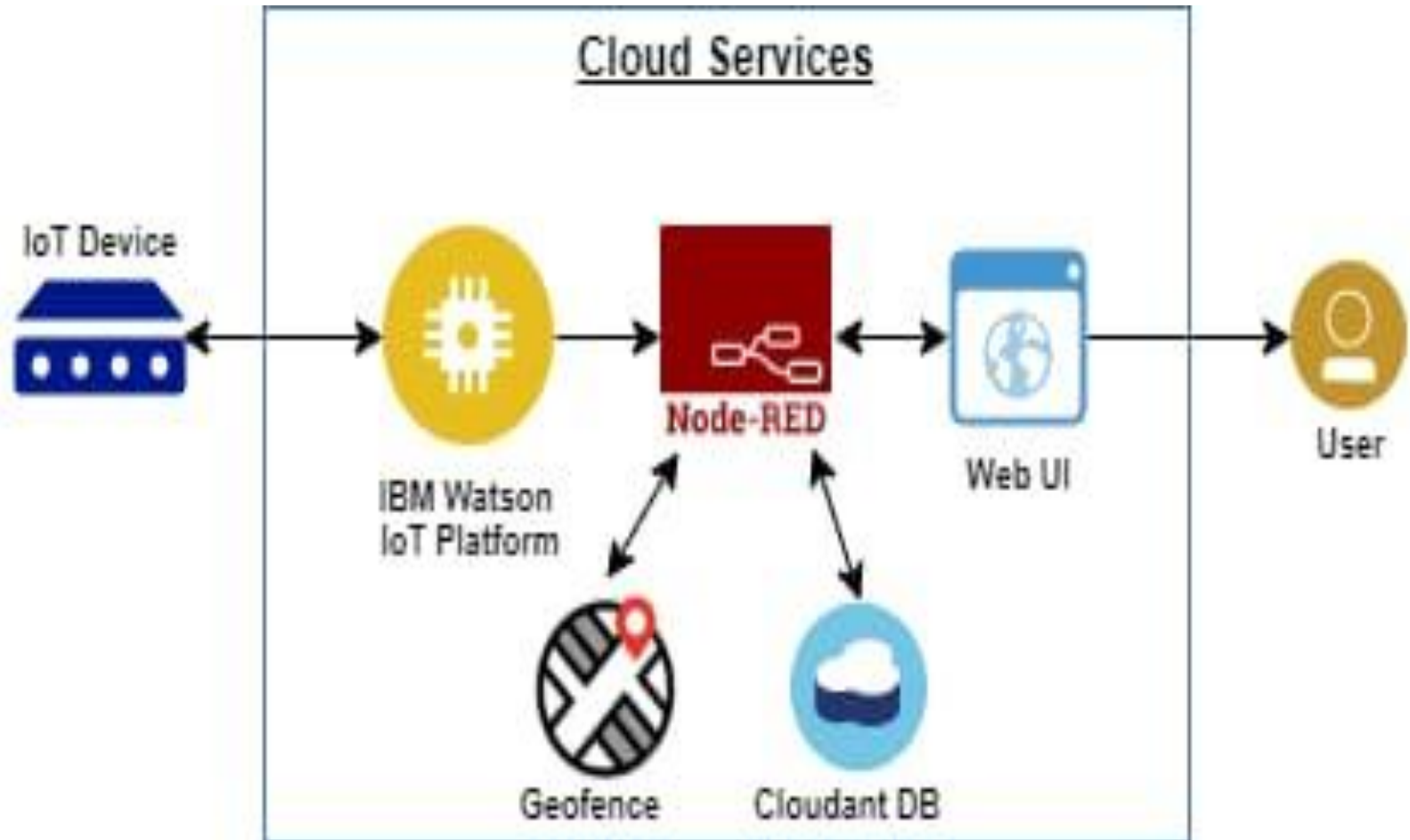
# Problem Identification

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- In the existing system, we use a voice recognition module in which the alert commands from the child are stored and kept for further reference.
- If the same child delivers the same command, it will compare with the alert command which was previously stored and sets an emergency level according to the alert command.
- The server will search the respective device ID from the database and search for respective contacts according to that device ID and helps in alerting the registered guardians.

# Block Diagram

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# Questions & Discussion

THANK YOU