Project Report

Date	19 November 2022
Team ID	PNT2022TMID16777
Project Name	Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification

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1.INTRODUCTION

1.1 Project Overview

Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geofence around the particular location. By continuously checking the child's location notifications will be generated if the child crosses the geofence. Notifications will be sent according to the child's location to their parents or caretakers. The entire location data will be stored in the database.

1.2 Purpose

It assists parents to monitor their children remotely. In case situations happen, notifications will be sent to parents so that actions can be taken. Through this, child safety can be ensured. By this, parents know what is happening remotely and can take actions if something goes wrong. It provides parents with the real-time location to monitor the child. It makes parents to make monitor their child from their workplace. Parents can be relax and calm by using this device.

2.LITERATURE SURVEY

2.1 Existing Problem

Parents need to ensure safety of their children but in realtime they need to get to work and need to worry about their child whether he/she is safe or not. So to ensure safety they need to monitor & to notify their child what he/she is doing and to know whether they are in safe atmosphere or not to ensure the safety of the child.

2.2 References

- A. Jatti, M. Kannan, R. M. Alisha, P. Vijayalakshmi and S. Sinha, "Design and development of an IOT based wearable device for the safety and security of women and girl children," 2016 IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bangalore, 2016, pp. 1108-1112.
- David Hanes, Gonzalo, Patrick Grosetete, Robert, Barton, Jerome Henry "IoT Fundamental and Networking Technologies, Protocols".

2.3 Problem Statement Definition

The objective of this project is to safeguard the child from threads. Now a days the safety measures of children has been reduced in huge number. Thus the violence against children increasing day by day. Our project mainly focus on sensing the children's Temperature and Heartbeat. By monitoring the activities the state of the child is analyzed. By using GSM, if child reaches the critical state then the latitude and longitude of that particular location is sent as an alert message to the parents.

SI.No		YEAR	JOURNAL NAME	ABOUT
	AUTHOR			
1	N. Senthamilarasi N. Divya Bharathi	2012	Child Safety Monitoring System Based on IoT	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.
2	M Nandini Priyanka, S Murugan, K N H Srinivas, T D S Sarveswararao, E Kusuma Kumari.	2019	International Journal of Innovative Technology and Exploring Engineering (IJITEE) Smart IOT Device for Child Safety and Tracking https://www.ijitee.org/wp-content/uploads/papers/v8i 8/H6836068819.pdf	The novelty of the work is that the system automatically alerts the parent/caretaker by sending SMS, when immediate attention is required for the child during emergency
3	Mr.Vinod Mane, Durgesh Musale, Rohan Joshi, Aditya Toney, Anand Pande, Shashank Kohade	2020	IoT Enabled Children Safety System (International Research Journal of Engineering and Technology (IRJET)) https://www.irjet.net/archives/V7/i1/IRJET-V7I143.pdf	It is a IOT based project and their approach is to monitor school bus in this new era of smart cities
4	Lai Yi Heng, Intan Farahana Binti Kamsin	2021	(Proceedings of the 3rd International Conference on Integrated Intelligent Computing Communication & Security (ICIIC 2021) IoT-based Child Security Monitoring System	Enable tracking of the child's location and capturing of data remotely such as temperature, pulse, respiratory rate, quality of sleep and many more. To show the child's actual data with reference values.
5	Fathima, N., Ahammed, A., Banu, R.,	2017	Optimized neighbor discovery in Internet of Things (IoT).	This device helps in optimized discovery of the child using data collected

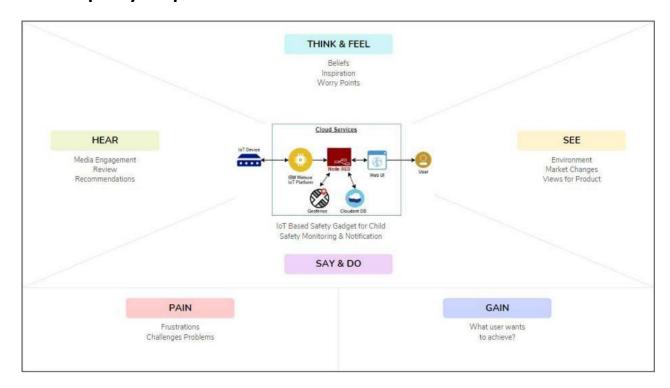
	Parameshachari, B.D Naik, N.M		(International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECCOT) (pp. 1-5). IEEE.)	
6	Prakriti Agarwal, R Ramya, Rachana Ravikumar, Sabarish G, Sreenivasa Setty	2020	Survey on Child Safety Wearable Device Using IoT Sensors and Cloud Computing (International Journal of Innovative Science and Research Technology)	The design of this model involves developing a medium for communication between the parent/guardian and the child's wearable device. The child's location is tracked using GSM mobile communication to specify the location of the child in real-time.
7	Mrs. P Chitra, Aarthi S, Anitha K, Angammal R, Abinaya D	2022	Monitoring and Prevention of Child Abuse Using IoT https://www.ijraset.com/re search-paper/monitoring- and-prevention-of-child- abuse-using-iot	This paper focuses on the important issue of how people surrounding a missing child can assist the youngster and play a crucial role in the child's safety and health monitoring until they are reunited with their parents.
8	Dr. T. VP. Sundararajan	2018	Activity Tracker Wrist Band for Children Monitoring using IOT	The children with Activity Tracker that has access to IOT monitoring and GSM technology keeps monitoring the children. The system has sensors interfaced with the processor which keeps sensing the vital signals such as heart beat rate, temperature, etc. So whenever some perilous situations arise there may be an indication to parents
9	Pietro Battistoni *ORCID,Monica SebilloORCID	2021	An IoT-Based Mobile System for Safety Monitoring of Lone Workers	This paper proposes a distributed solution of Smart Personal Protective Equipment for the safety

	andGiuliana Vitiello			monitoring of Lone Workers by adopting low- cost electronic devices. In addition to the same hazards as anyone else, Lone Workers need additional and specific systems due to the higher risk they run on a work site. To this end, the Edge- Computing paradigm can be adopted to deploy an architecture embedding wearable devices, which alerts safety managers when workers do not wear the
10	Fei Mingming ,	2014	Design and implementation	prescribed Personal Protective Equipment and supports a fast rescue when a worker seeks help or an accidental fall is automatically detected. In this paper, the current
	Shi Yanli		anti-lost children system based on internet of things	rapid development of society for children brought to this reality is lost, combined with existing and emerging technologies, Internet of Things inlife related application solutions proposed, which can be determined at any location to avoid the safety of children parents worry about other issues. Although at present no specific implementation, and the idea is still preliminary stage, but levels of the method, rationality, practicality and applicability have good theoretical basis, and the method utilizes advanced technology, with good

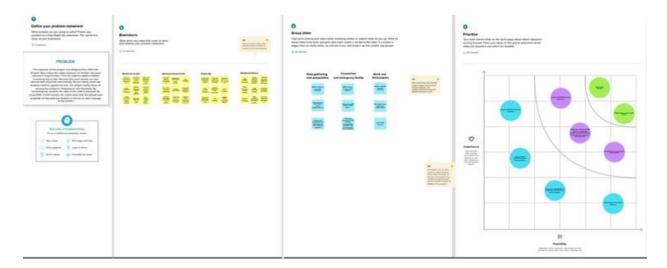
		scalability and adaptability,
		with some room for
		development, there is a
		certain profit margin.

3.IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



Step-1: Team Gathering, Collaboration and Select the Problem Statement

IoT or the internet of things is characterized as a forthcoming innovation that empowers us to create worldwide networked machines and also the devices that can be helped for exchanging of communication.

As we all know that the real-time application has been increasing day by day, the smart connection also had increased. Rapid population growth, led to the increase in global life expectancy and the advance of technology, paving the pathway for the creation of age-friendly environments. This had led to the necessity in designing new products for infantsprotection.

Infants or toddlers need parents' attention 24×7. In this present era, the cases regarding missing children have been increasing day by day, which was the main motivation that comes for the safety of little children. However, the parents cannot continuously monitor their babies' conditions either in normal or abnormal situations. Still, certain incidents likeinfant attacks have been reported, it is necessary to protect the baby.

Step-2: Brainstorm, Idea Listing and Grouping

Team Member 1: E. Grashia Rajlin

Child and women safety is a challenging problem nowadays due to antisocial elements in the society. The crime rate is day by day increasing. Schools and working places need high surveillance for ensuring the safety among children and women. Smart phones are playing major role for ensuring the safety, where some mobile based applications provide alert systems. During the emergency, mobile apps alert the control room of nearby police station or caretakers of children. The literature shows that location tracking devices are available in the market, but it does not provide the complete solution to the problem. The solution to this

problem is to design an IoT device, which senses the child's location and environment and during emergency, it should send the alert to the parents automatically.

Team Member 2: R. Noor Mohamed

The children are too young to take care of themselves. We cannot monitor the children at all times in school, play area, and outside place. In this paper, we discuss the concept of child safety device based on Internet of things. The aim of this device is to provide safety to the child by allowing the parent to locate the child and view their surroundings. This device can be used to monitor the temperature and motion of the child. If any problem persists, the GSM mobile communication module automatically sends a text message to the parent as SMS.

Team Member 3: A. Ragul

Crimes on children keep increasing despite actions have been taken by the government. Revealed by [9], the overall percentage of child abasements worldwide is about 80% nowadays, out of which 74% are girls and the remaining are boys. For every 40 seconds, a child is gone missing in the world. Due to that, parents are worried for their children and perhaps, a hard challenge for them to guarantee safety of their children when they are out.

To cope with the issue, the system is proposed with these objectives:

Enable tracking of the child's location and capturing of data remotely such as temperature, pulse, respiratory rate, 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/situations

Team Member 4: K. Vanmathi

Develop a prototype of IoT wearable smart band connected to parents' mobile apps so that they can monitor the actual condition of children at anytime and anyplace. Besides, unlike existing smart band, which is less focusing on child security aspect, the proposed system emphasizes in getting as much data as possible so that actual situation can be identified. , the information indicating children's status, along with reference values will be sent to parents' devices with the app installed. If children's actual data is not within the range of reference value, alert notification and some suggestions will be sent to parents' devices. Also, when children leave geofences, notification will be sent to parents' device.

Step-3: Idea Prioritization

The section mainly discussed about significant of the research and why this study needs to be carried out. The child security system benefits parents as well as children. Since it aids in locating children, monitoring child's condition and security status instantly at anyplace and any time, parents who often tied up in work or neglect their children are gaining advantages from it. Through the proposed system, immediate

actions can be taken forthwith in case the child is threatened. Thus, child security is guaranteed, crime rate related to children is reduced and eventually, parents can rest assured. In fact, reduction of crime rate brings about long-term positive effects such as improving country's reputation and quality of life, increasing community security, safety, and cohesion as well as generating economic benefits for individuals, committee and taxpayers. Besides, the proposed system makes ample use of IoT, proving IoT is evolving which can be included in multiple areas comprising the child security field.

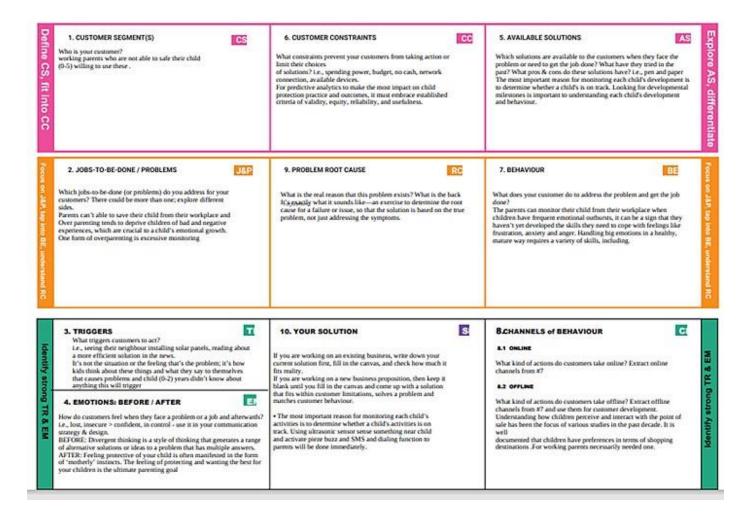
Throughout the research, it is clearly explained the IoT concept, child safety issues and the need of using child security system. Some previous studies have been included for designing the IoT-based child security smart band. It assists parents to monitor their children remotely. In case situations happen, notifications will be sent to parents so that actions can be taken. Through this, child safety can be ensured and crime rate will be reduced. However, the proposed device is not robust enough and does not contain sufficient functions to operate like a mobile phone. Hence, the future enchantments will be adding more features, software, applications, hardware to make the proposed system capable of working more intelligently,

meanwhile guarantee the safety of children

3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	When someone near the child this device alerts the parents whereas the parents in other distanced place.
2.	Idea / Solution description	The aim of this device is to provide safety to the child by allowing the parent to locate the child and view their surroundings. This device can be used to monitor the temperature and motion of the child. The other features of the device are emergency light and alarm buzzer which are activated when the ultrasonic sensor sense something near child. After automatically send the SMS to parents and call also received to the parents.
3.	Novelty / Uniqueness	The enchantments will be adding more features, software, applications, hardware to make the proposed system.
4.	Social Impact / Customer Satisfaction	The feedbacks of parents and children were highly promising. Results showed that 86.4% of the parents are satisfied with the time controller, around 91.1% of the children are satisfied with the proposed interface and 100% of the children are satisfied with the multiple sessions of the time allowed and video algorithm
5.	Business Model (Revenue Model)	lot based risk monitoring device for child is done through smart device i.e., smart watch Through this device the respected parameters are monitored by the connected person.
6.	Scalability of the Solution	It can be given up to 4 out of 5.

3.4 Problem Solution fit



1.	CUSTOMER SEGMENT(S)	Our Customers are mainly parents who are working and do not have enough time to take care of their children. Such parents are not provided with availability at anytime to look after their children. If the case so they are in need of something to make their children under the surveillance of them.
2.	JOBS-TO-BE-DONE/PROBLEMS	To enhance the operating condition of the developed solution the way it is not supposed to deal with any fault at any point of time so that the child safety can be highly ensured. To ensure the parents that their surveillance on their children can never be taken off
3.	TRIGGERS	The trigger which induces the customers is the one that when other working parents give a try to this and comment a positive review on this, they also erdtoday center their

		1
		childsafety. The trigger which induces the customers is the one that when other working parents give a try to this and comment a positive review on this, they also erdtoday center their childsafety.
4.	EMOTIONS: BEFORE/AFTER	Customers(Parents) are being frustratesd that their children are doing safe or not before using the gadget designed. Once they start to use the developed solution they might feel free to focus on their work and also the surveillance of their children would happen with ease at any point of time
5.	AVAILABLE SOLUTIONS	Of course the solutions are available readily in the market such as angel monitoring system, Child GPS Tracking System, Child Safety GSM Kit, etc One such constraint the customers facing are cost and inefficiencies in the working once purchased.
6.	CUSTOMER CONSTRAINTS	The constraints our customers facing are such connectivity issues or may be the protocols being used for communication. There may be chances of issues arised due to technical disefficiencies. Giving a second thought, price to be afforded for buying the developed solution kit might be the one they could not afford.
7.	BEHAVIOUR	Our proposed solution has the modes of working in both offline and Online. In case of any disconnectivities happen the gadget which ha been developed might tend to work on a plan B ehich includes the backup of the failure of actual working kit.
8.	CHANNELS of BEHAVIOUR	Our proposed solution has the modes of working in both offline and Online. In case of any disconnectivities happen the gadget which has been developed might tend to work on a plan B ehich includes the backup of the failure of actual working kit.
9.	PROBLEM ROOT CAUSE	Considering the origination of the problem, it occurs in the base of merely irrespective persons that are no way relatable to the children but for the currency kind of thing and also the child abuse(mainly in case of girl children)
10	YOUR SOLUTION	Our Team has highly been intending to develop an efficient solution to overcome all the flaws that the existing solutions hold back still. We are highly on demand to ensure the efficient functionalities of the developing module the way it will not fail at anytime.

4.REQUIREMENT ANALYSIS

4.1 Functional Requirements

SI No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
1.	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
2.	User Confirmation	Confirmation via Email Confirmation via OTP
3.	Authentication	Only the authorized person for that product will know Ensures security
4.	User Interface	The Inventor Able to see the location of children when they are out of geofence will also track the exact information about the children
5.	Notification	Notified through mobile and mail

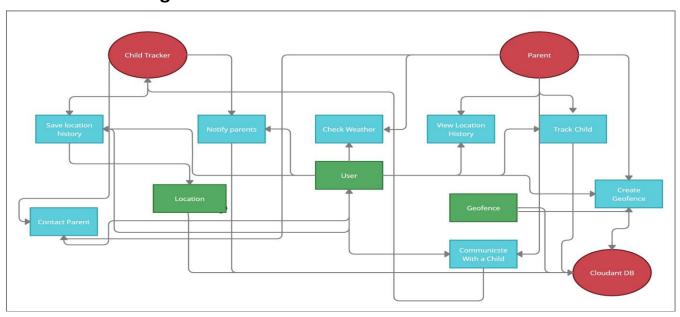
4.2 Non- Functional Requirements

SI No.	Non-Functional Requirement	Description
1.	Usability	Accessed through Mobile App Showing location (latitude and longitude) of child and also other measures to ensure safety like notification. Portable and comfortable to use.
2.	Security	Database security and ensuring the safety of the product while in use.
3.	Reliability	Once logged in, the webpage is available until logging out of the app, and a comfortable platform or creates a good environment for users to use.
4.	Performance	Each page must load within 4 seconds and database needs to be updated every few seconds and a notification must be sent immediately if seen a change in the child's location.
5.	Availability	The data must be available whenever needed and the product should be able to use at any time.

6.	Scalability	The process must be flexible to use at anytime and versatile.
		versame.

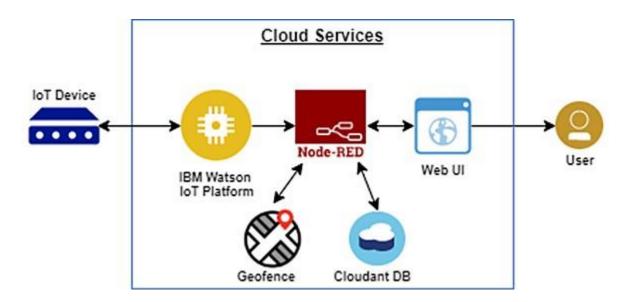
5.PROJECT DESIGN

5.1 Data Flow Diagrams



5.2 Solution & Technical Architecture

The device has IOT monitoring allows to monitor the child from anywhere with any portable devices. Ultrasonic sensor are used which sense when someone near child and alarm buzz will established SMS and dialing function is made to parent



5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1 (FATHER)	As a user, I can register by entering my email, password, and confirming my password. I can access the location of my children using the credentials provided as a Father.	I can access my account / dashboard and receive confirmation email & click confirm	High	Sprint-1
		USN-2 (MOTHER)	As a user, I can register by entering my email, password, and confirming my password. I can access the location of my children using the credentials provided as a Mother.	I can access my account / dashboard and receive confirmation email & click confirm	High	Sprint-1
		USN-3 (GUARDIAN/ CARETAKER)	As a user, I can also monitor the children's activities using a safety gadget monitoring system.	I can access my account / dashboard and receive confirmation email & click confirm	Medium	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email & password.	I can access my account / dashboard.	Medium	Sprint-2
	Dashboard	USN-5	As a user, I can fix the geofence for my child's location so that I will receive alerts if	I can monitor the current location of my child.	High	Sprint-2

			my child crosses the geofence.			
Customer (Web user)	Registration	USN-1 (FATHER)	As a user, I can register by entering my email, password, and confirming my password. I can access the location of my children using the credentials provided as a Father.	I can access my account / dashboard and receive confirmation email & click confirm	High	Sprint-1
		USN-2 (MOTHER)	As a user, I can register by entering my email, password, and confirming my password. I can access the location of my children using the credentials provided as a Mother.	I can access my account / dashboard and receive confirmation email & click confirm	High	Sprint-1
		USN-3 (GUARDIAN/ CARETAKER)	As a user, I can also monitor the children's activities using a safety gadget monitoring system.	I can access my account / dashboard and receive confirmation email & click confirm	Medium	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email & password.	I can access my account / dashboard.	Medium	Sprint-2
	Dashboard	USN-5	As a user, I can fix the geofence for my child's location so that I will receive alerts if my child crosses the geofence.	I can monitor the current location of my child.	High	Sprint-2
Customer Care	Dashboard	USN-6	As a customer care service person, whenever I receive a complaint, I forward the complaint and ensure that the complaint is resolved.	I can keep track of all the complaints and the status of the complaints received.	Medium	Sprint-3
Administrator	Admin Dashboard	USN-7	As an administrator, I will take care of all the payment processes, queries and complaints and login credentials.	I can access all the customer details, payment details and complaints received.	High	Sprint-4

6.PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

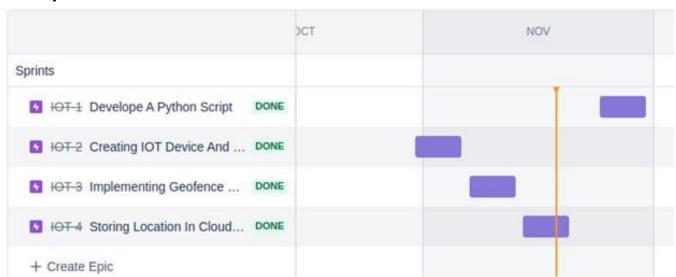
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, and password, and confirming my password.	4	High	GRASHIA RAJLIN
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	NOOR MOHAMED
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	VANMATHI
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	RAGUL
Sprint-1	Dashboard	USN-1	As a user, I need to be able to view the functions that I can perform	4	High	GRASHIA RAJLIN
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	GRASHIA RAJLIN
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	NOOR MOHAMED
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	VANMATHI, GRASHIA RAJLIN
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	GRASHIA RAJLIN, RAGUL
Sprint-3	Node RED- Cloudant DB communication	USN-1,2	The data stored in IBM Cloud should be properly integrated with Cloudant DB	7	High	GRASHIA RAJLIN, NOOR MOHAMED
Sprint-4	User – WebUI interface	USN-1,4	The Web UI should get inputs from the user	6	High	GRASHIA RAJLIN, RAGUL

Sprint-4	Geofencing	USN-	The geofencing of the child	7	High	NOOR
		2,3,1	should be done based on the			MOHAMED,
			geographical coordinates			VANMATHI,
						GRASHIA
						RAJLIN.

6.2 Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 Reports from JIRA



7.CODING

7.1 Coding

```
import json
import wiotp.sdk.device
import time
myConfig ={
  "identity":{
  "orgId": "rdegyk",
  "typeId":"safetygad",
  "deviceId":"gad1"
  },
  "auth":{
    "token":"gyg06jzil(!lTGsKxV"
   }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
```

```
while True:
  name="locater"
  #in area location
  #latitude=13.145997614532394
  #longitude=80.0619303452179
  #out area location
  latitude=13.15412
  longitude=80.05729
  myData={'name':name, 'lat':latitude, 'lon':longitude}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
  print("Data published to IBM lot platform: ",myData)
  time.sleep(2)
client.disconnect()
```

7.2 Geo-fence

A geofence is a virtual perimeter for a real-world geographic area.[1] A geofence could be dynamically generated (as in a radius around a point location) or match a predefined set of boundaries (such as school zones or neighborhood boundaries). The use of a geofence is called geofencing, and one example of use involves a location-aware device of a location-based service (LBS) user entering or

exiting a geofence. This activity could trigger an alert to the device's user as well as messaging to the geofence operator. This info, which could contain the location of the device, could be sent to a mobile telephone or an email account.

8.RESULTS

8.1 Performance Metrics

It is being used as it allows the correct sample of respondents to be selected due to which becomes convenient to obtain results. Besides, the results offered are affordable and usable. Since the respondents are properly chosen, the results tend to be more accurate, precise and reliable.

9.ADVANTAGES & DISADVANTAGES

9.1 Advantages

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.

9.2 Disadvantages

It can be easily removed or damaged while playing and by any intruders. This requires internet connectivity to get monitored and to notify alert messages to parents.

10.CONCLUSION

The word Future resembles the word Children. As Dr. A.P.J Abdul Kalam's words "Youngsters are thefuture pillars of one's nation", today's children are tomorrow's youngsters, preserving their dreams and life for a better future is necessary. Therefore, each and every parent should take care of their own children, without

letting them to fall into the dark world of abusements, which entirely ruin them physically, mentally and emotionally destroying our future. Hence, considering the importance of our future, our project makes it easy for parents to track their children and to visually monitor them on regular basis, which makes them ensure the safety of their children and reduces the rate of incidents of child abuse.

11.FUTURE SCOPE

In our system, we automatically monitor the child in real time using Internet of Things, with the help of GPS, GSM, and Raspberry Pi. This system requires network connectivity, satellite communication, and high-speed data connection when we use web camera and GPS to lively monitor. It is difficult to monitor when there occurs any hindrance to satellite communication or any network issue. There also occurs time delay in video streaming through the server. Hence in the future, these issues can be overcome by using Zigbee concept or accessing the system without internet and using high-speed server transmission.

12.APPENDIX

Source Code

Code for IN Area Location:

```
import json import
wiotp.sdk.device
import time myConfig
={
  "identity":{
  "orgld": "rdegyk",
```

```
"typeId": "safetygad",
"deviceId": "gad1"
},
"auth":{
"token": "gyg06jzil(!ITGsKxV"
wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None) client.connect() while True:
name="locater"
#in area location
latitude=13.145997614532394
longitude=80.0619303452179
myData={'name':name, 'lat':latitude, 'lon':longitude}
client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)
print("Data published to IBM lot platform: ",myData)
time.sleep(2)
client.disconnect()
```

Code for OUT Area Location:

```
import json import
wiotp.sdk.device
import time myConfig
={
"identity":{
"orgId": "rdegyk",
"typeId": "safetygad",
"deviceId":"gad1"
},
"auth":{
"token": "gyg06jzil(!ITGsKxV"
wiotp.sdk. device. Device Client (config=my Config,\\
logHandlers=None) client.connect() while True:
name="locater"
#out area location
latitude=13.15412
```

```
longitude=80.05729

myData={'name':name, 'lat':latitude, 'lon':longitude}

client.publishEvent(eventId="status", msgFormat="json",

data=myData, qos=0, onPublish=None)

print("Data published to IBM lot platform: ",myData)

time.sleep(2)

client.disconnect()
```

GitHub Link: https://github.com/IBM-EPBL/IBM-Project-421-1658300633

Project Demo: https://drive.google.com/file/d/1L2dMshgHD-QKt_Wvhr9bwNDBjfpOl8zd/view?usp=drivesdk