PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP

Project Tittle: IOT Based Safety Gadget for Child Safety Monitoring and Notification

Team ID : PNT2022TMID33855

College : Government College of Engineering, Tirunelveli

Branch: Electronics and Communication Engineering

Team Leader : R.Kowsiga (950819106030)

Team Member: M.Niffa Meriya (950819106050)

Team Member: P.Madhumitha (950819106035)

Team Member: B.E. Dharani (950819106013)

I

Project Report

13. APPENDIX

Source Code

GitHub & Project Demo Link

1.INTRODUCTION

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.

LITERATURE SURVEY :

1.)Intelligent Child Safety System using Machine Learning in IoT Devices:

-Aparajith Srinivasan, S Abirami, N Divya, R Akshya, BS Sreeja 2020 5th International Conference on Computing, Communication and Security (ICCCS), 1-6,2020

2.)Smart School Bus Tracking:

Requirements and Design of an IoT based School Bus Tracking System:

-Hina Gull, Dalal Aljohar, Reem Alutaibi, Dalia Alqahtani, Muna Alarfaj, Rahaf Alqahtani 2021 5th International Conference on Trends in Electronics and Informatics (ICOEI), 388-394, 2021

3.)IoT-Based Smart Band For Tracking Position And Monitoring Conditions Of Children:

-Lathifah Arief, Taufik Fadhlul Hadi, Tri A Sundara 2020 International Conference on Information Technology Systems and Innovation (ICITSI) ,111-115, 2020

4.)Child monitoring and safety system using WSN and IoT technology:

-P Poonkuzhlai, R Aarthi, Yaazhini VM Annals of the Romanian Society for Cell Biology, 10839-10847, 2021

5.)Smart and secure IoT based child monitoring system:

-Dipali Badgujar, Neha Sawant, Dnyaneshwar Kundande Int Res J Eng Technol (IRJET) 6 (11), 2019

6.)Multi-sensor Wearable for Child Safety:

-Ushashi Chowdhury, Pranjal Chowdhury, Sourav Paul, Anwesha Sen, Partho Protim Sarkar, Shubhankur Basak, Abari Bhattacharya 2019 IEEE 10th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), 0968-0972, 2019

7.)Design and implementation of a children safety system based on IoT technologies:

-Leonardo D'Errico, Fabio Franchi, Fabio Graziosi, Claudia Rinaldi, Francesco Tarquini2017 2nd International Multidisciplinary Conference on Computer and Energy Science (SpliTech), 1-6, 2017

8.)A hybrid model on child security and activities monitoring system using iot:

-R Kamalraj, M Sakthivel 2018 International Conference on Inventive Research in Computing Applications (ICIRCA), 996-999, 2018.

9.)IoT Enabled Children Safety System:

-Mr Vinod Mane, Durgesh Musale, Rohan Joshi, Aditya Toney, Anand Pand

10.)IoT Based Shrewd Monitoring Framework for Children Safety:

-KP Revathi, T Manikandan ECS transactions(107)1,13967,2022

11.)IoT based Child Safety Management using Raspberry Pi and RFID Technology:

-Mohammad Jabirullah, M Amru, D Raviteja IOP Conference Series: Materials Science and Engineering 981 (4), 042079, 2020

12.)IoT Based Child Safety Locator From Water and Fire:

-Md Rony, Minhajul Islam, Sanjida Khanam, Sagar Gosh

Daffodil International University, 2021

Existing problem:

Now-a-days voilence against children is widespread and remains a harsh reality for millions of children from all socio-economic groups in India. Therefore inorder to overcome such problem we are introducing IOT based Safety Gadgets for Child Safety Monitoring system

References:

Through youtube and other websites and articles like Child Monitoring and Safty System Using Wsn and IOT Technology .

Problem Statement Definition :

- Child's safety project aims at providing a safe and conducive environment for all children through the prevention and response to child abuse, exploitation and neglect.
- Additional features such as sending group messages,audio recording are also part of the proposed design.A mobile app is designed for women safety where safe location from the victims current location will be shown on the map so that woman can reach the safe place from her current location.
- The main purpose of this app is to provide a safe platform through android phones as today all people are taking smartphones to travel here and there.

PROBLEM STATEMENT

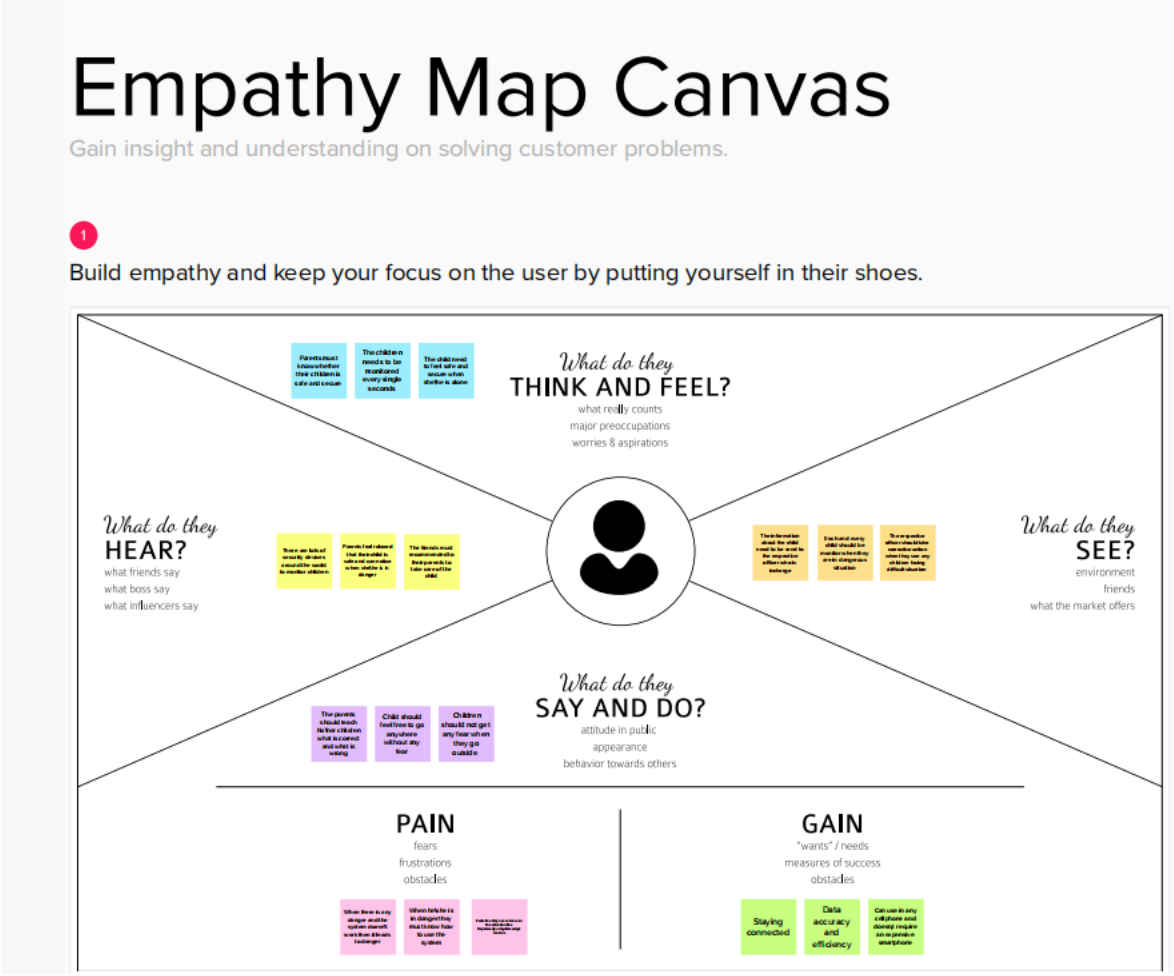
Child's safety project aims at providing a safe and conducive environment for all children through the prevention and response to child abuse, exploitation and neglect.

Who does the problem affect?	Childrens are mostly affected.
What are the boundaries of the problem?	Boundaries are guidelines that you create for yourself, to manage your actions and interactions with other people.
What is the issue?	Most States recognize four major types of maltreatment: physical abuse, neglect, sexual abuse, and emotional abuse.
When does the issue occurs?	Child abuse happens when someone caring for a child hurts a child's feelings or body. It can happen to boys or girls in any family. Often, hurt feelings (or emotional trauma) last long after a hurt body has healed.
Where is the issue occurring?	Child abuse and adult abuse can happen anywhere, including in your own home by someone you trust. Perpetrators tend to look for circumstances where they may be able to abuse their target without getting caught – or where they have access to a high number of people that they can abuse.
Why is it important that we fix the problem?	The healthy development of children is crucial to the future well-being of any society. Because they are still developing, children are especially vulnerable – more so than adults – to poor living conditions

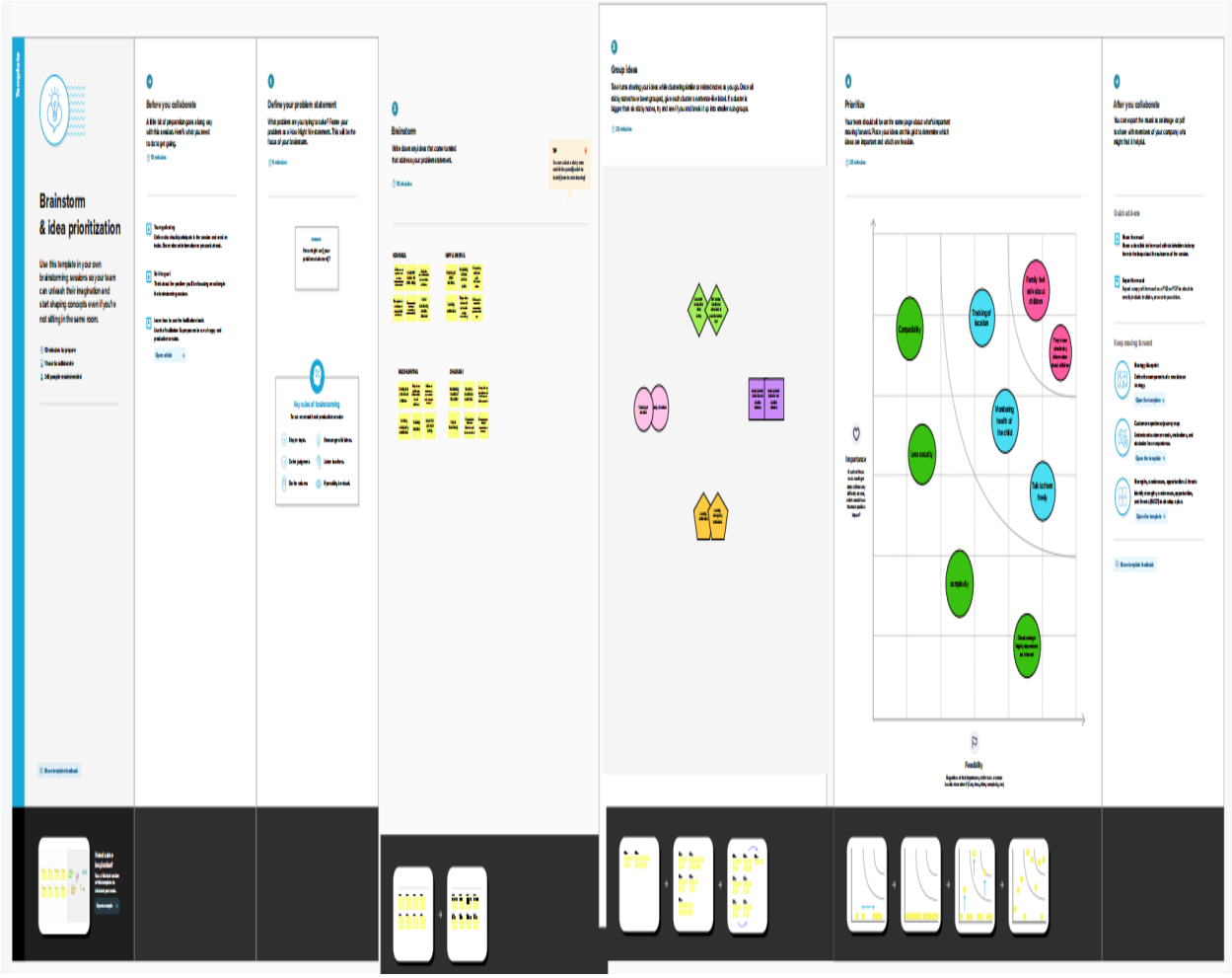
	such as poverty, inadequate health care, nutrition, safe water, housing and environmental pollution.

IDEATION & PROPOSED SOLUTION:

Empathy Map Canvas:



Ideation & Brainstorming:



Proposed Solution:

Proposed Solution Template:

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	We need to solve problem for children who are subjected to female infanticide, feticide,sexual abuse and exploitation, prostitution, rape.
2.	Idea / Solution description	We propose a solution which will try to overcome the disadvantages of the existing systems and also aim at providing false proof safety to women. The proposed work aims at designing an IoT based safety device that relies on providing security to women.
3.	Novelty / Uniqueness	Additional features such as sending group messages, audio recording are also part of the proposed design. A mobile app is designed for women safety where safe locations from the victim's current location will be shown on the map so that women can reach the safe place from her current location.
4.	Social Impact / Customer Satisfaction	The main purpose of this app is to provide a safe platform through Android phones as today all people are taking smartphones to travel here and there.
5.	Business Model (Revenue Model)	IoT service providers will use their own IoT business models, architectures, and operating platforms.
6.	Scalability of the Solution	IoT scalability refers to the ability to go from prototype to production in a seamless way.

Problem Solution fit:

REQUIREMENT ANALYSIS:

Functional requirement:

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration and User Confirmation	• Registration through Gmail • Registration through phone number • Confirmation via Email • Confirmation via OTP
FR-2	App installation and Detecting Child location	• Installation through link • Installation through play store • Detecting location via app • Detecting location via SMS
FR-3	Database	• Stored in cloud for seamless connectivity. • Parents and kids link with the distance and the location values obtained from the mobile devices are stored here. • The values include parent id, kid id, distance, longitude, latitude etc.
FR-4	Server	• It connects the database and the front end application. • The backend server has been implemented to run as a service and is deployed in an IBM cloud instance. • The backend server has been implemented to run as a service and is deployed in an IBM cloud instance.
FR-5	Battery Life	• If the child or parent forgets to charge the device for a whole day then also the device will work. That's why we aim to make this device last the whole day with one charge. • It should be long-lasting.
FR-6	Location History	• location history will help to track the child's activity so that the aren't will be updated. Location history will be there for 30 days. • For example if the child gets missing with the help of location history the aren't can track down their child's activity and also can find their child.

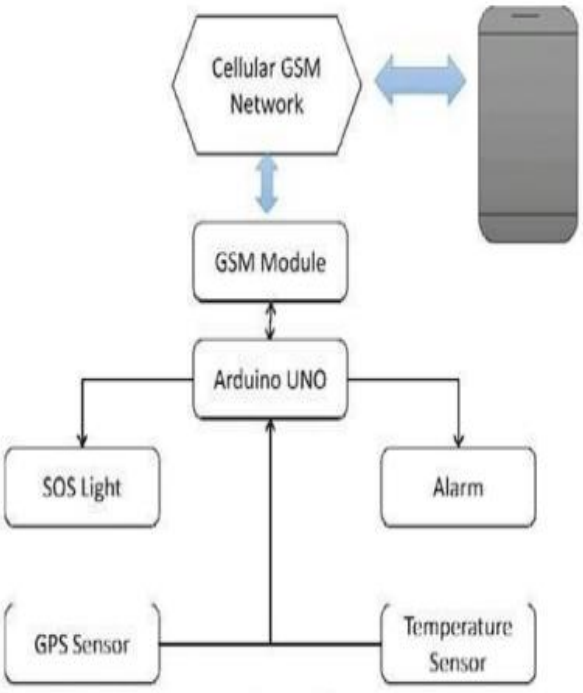
Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Device have GSM can help to inform the parents or relatives about the current situations of the child by deliver the message immediately to save the child.
NFR-2	**Security**	• Make children parents more assure about their kid's security, we have a feature in our device called Geo-Fence. • Whenever your child crosses that specific area, you will get an instant notification on your phone.
NFR-3	**Reliability**	• Portable • Easy to use • Flexibility
NFR-4	**Performance**	• Create a Child tracker which helps the parents with continuously monitoring the child's location. • The notification will be sent according to the • Child's location to their parents or caretakers. • The entire location data will be stored in the database.
NFR-5	**Availability**	• Track your child even in a crowd • Get travel details of kids at any time Know the current location
NFR-6	**Scalability**	• Gadget ensures the safety and tracking of the children. • Parents need not worry about their children.

Project Design Phase-II Technology Architecture

Date	16 October 2022
Team ID	PNT2022TMID33855
Team Leader	R.Kowsiga
Team Member	P.Madhumitha M.Niffa meriya B.E.Dharani
Project Name	IoT based safety gadget Child Safety Monitoring and Notification

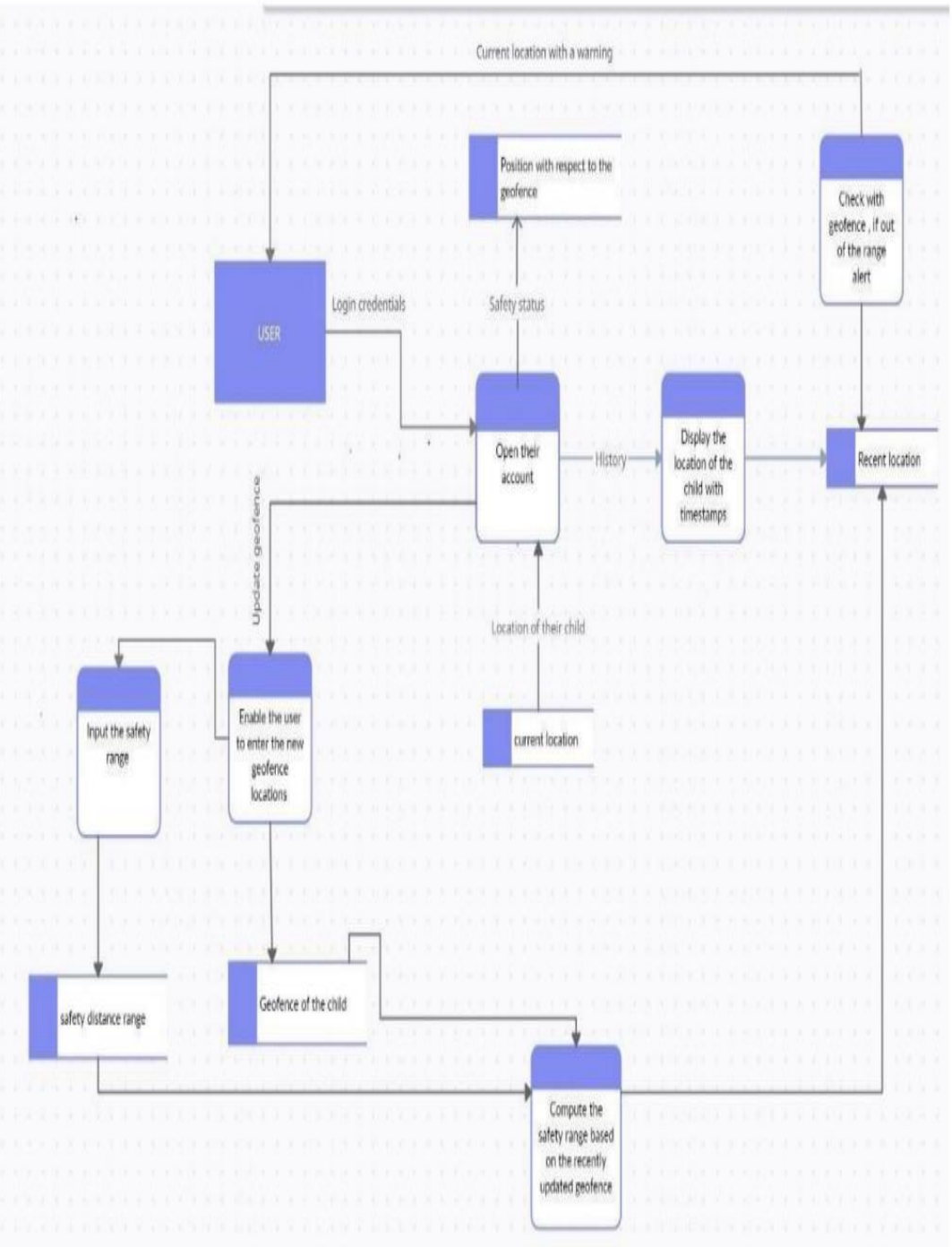


Data Flow Diagrams:

USER STORIES

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user) and (Web user)	Registration	USN-1	As a user, I can register my account by entering my email, password, and confirming my password..	I can access my account/ dashboard	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email once I have registered myself.	I can receive confirmation email & click confirm.	High	Sprint-1
		USN-3	As a user, I can register for the application through an apple account.	I can register & access the dashboard with apple account Login.	High	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering user id & password.		High	Sprint-1
Customer Care Executive	Login		As I enter I can view the working of the application and scan for any glitches and monitor the operation and check if all the users are authorized.	I can login only with my provided credentials	Medium	Sprint - 3
Administrator	Login		Maintaining and making sure the database containing the locations are secure and accurate and updated constantly.	I can login only with my provided credentials	High	Sprint - 3

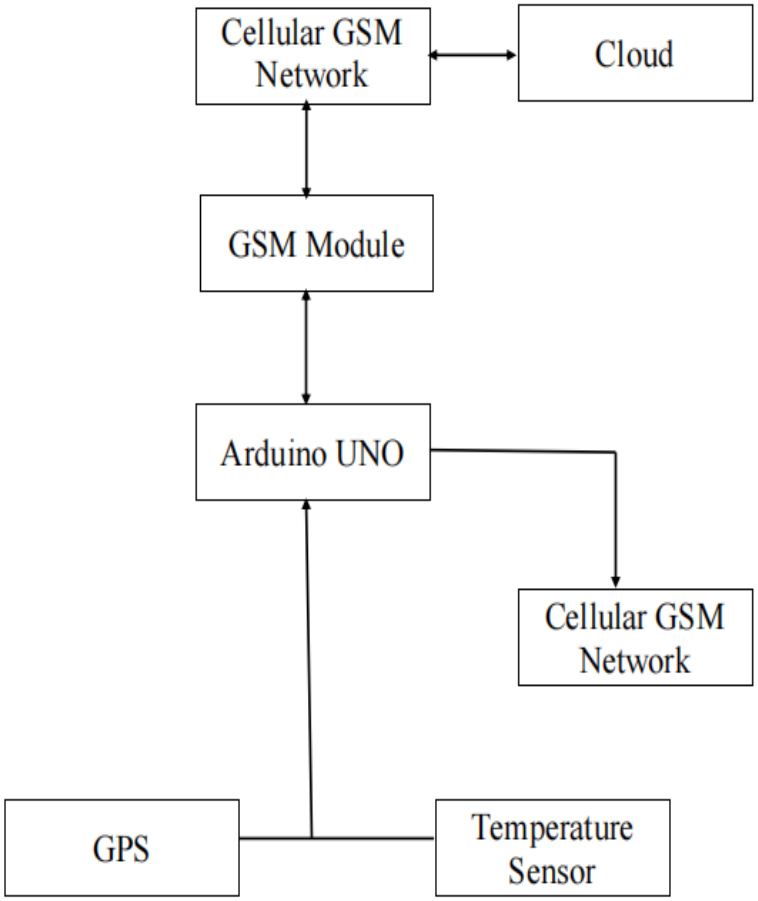
DATA FLOW DIAGRAM



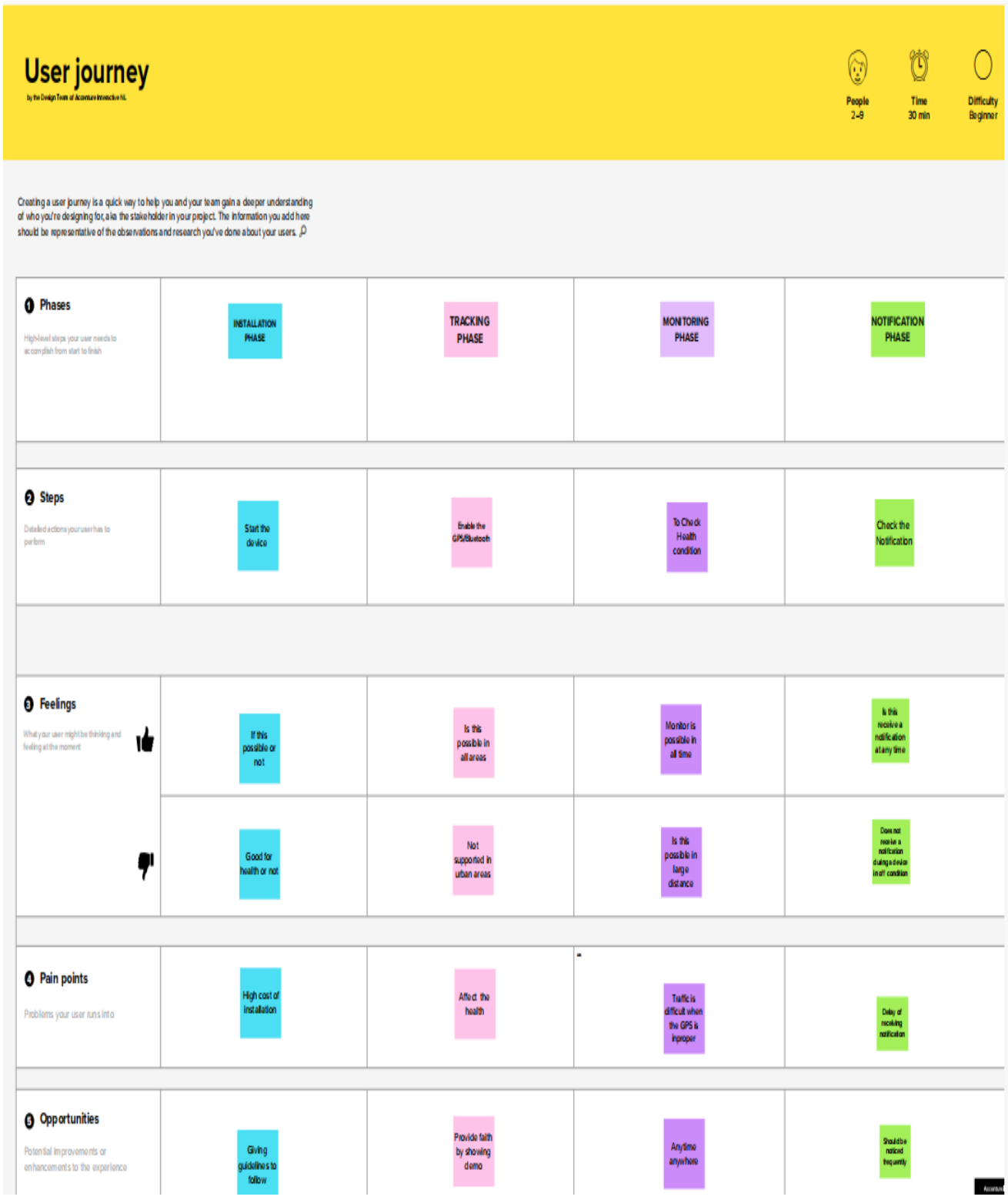
Solution & Technical Architecture:

Project Design Phase-1

Solution Architecture



User Stories:



PROJECT PLANNING & SCHEDULING:

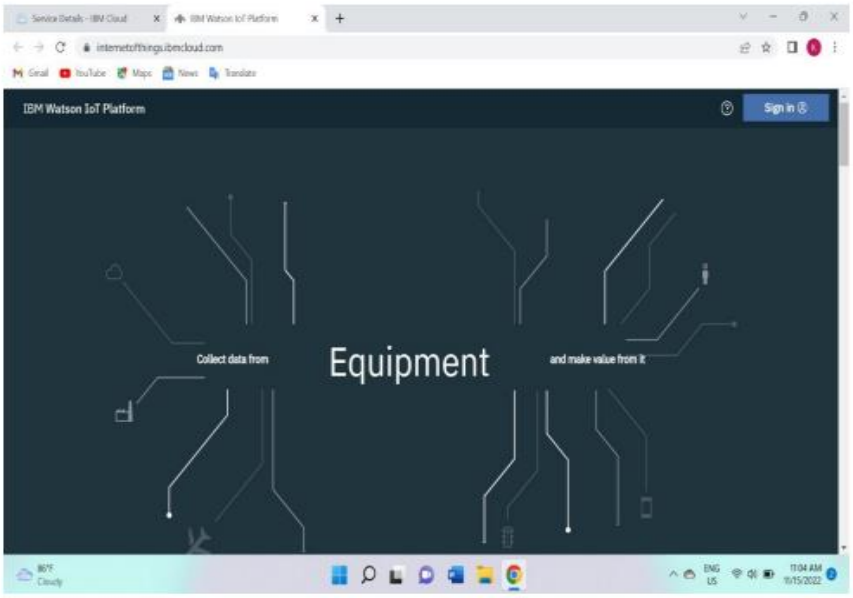
Project Development –Delivery plan sprint-1

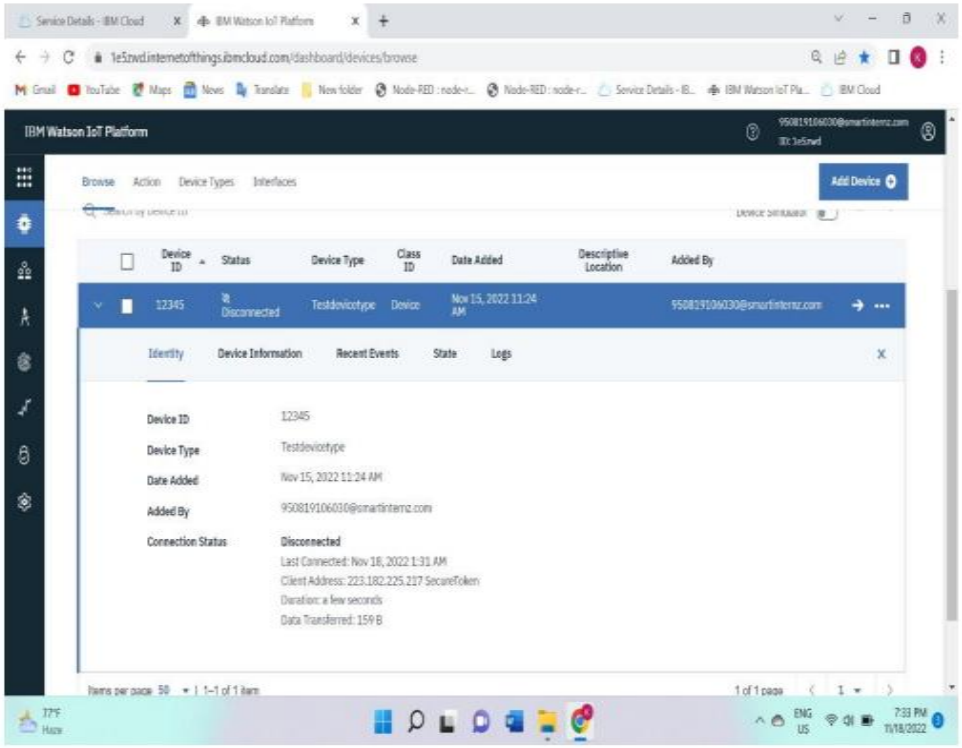
IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID33855

Creating and Connecting IBM cloud for Project and Python Code

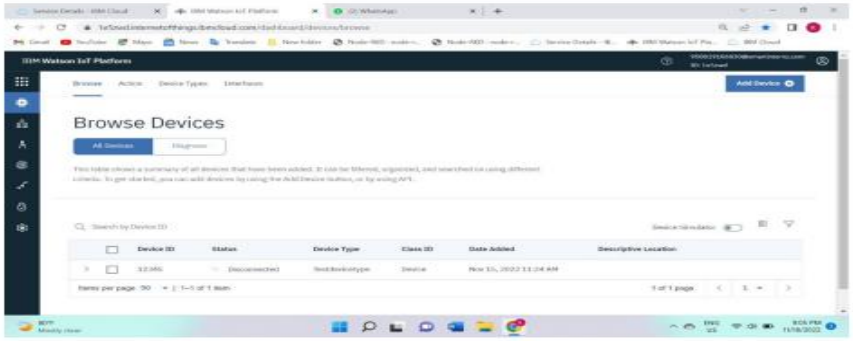
Creating IBM Cloud Service and creating the device:



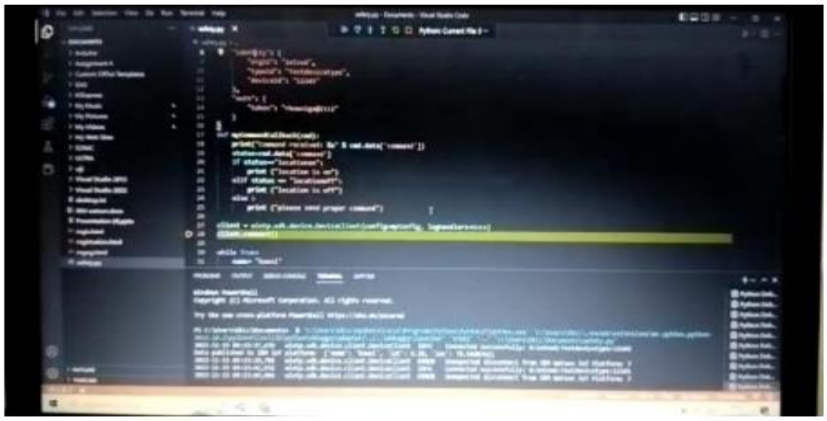

Service Details - IBM Cloud
IBM Watson IoT Platform
1e5zwd.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
Added By
12345
Disconnected
Testdevicetype
Device
Nov 15, 2022 11:24 AM
Identity
Device Information
Recent Events
State
Logs
Device ID
12345
Device Type
Testdevicetype
Date Added
Nov 15, 2022 11:24 AM
Added By
Connection Status
Disconnected
Last Connected: Nov 18, 2022 1:31 AM
Client Address: 223.182.225.217 SecureToken
Duration: a few seconds
Data Transferred: 159 B
Items per page: 50
1–1 of 1 item
1 of 1 page
77°F
Haze
ENG
US
7:33 PM
11/18/2022

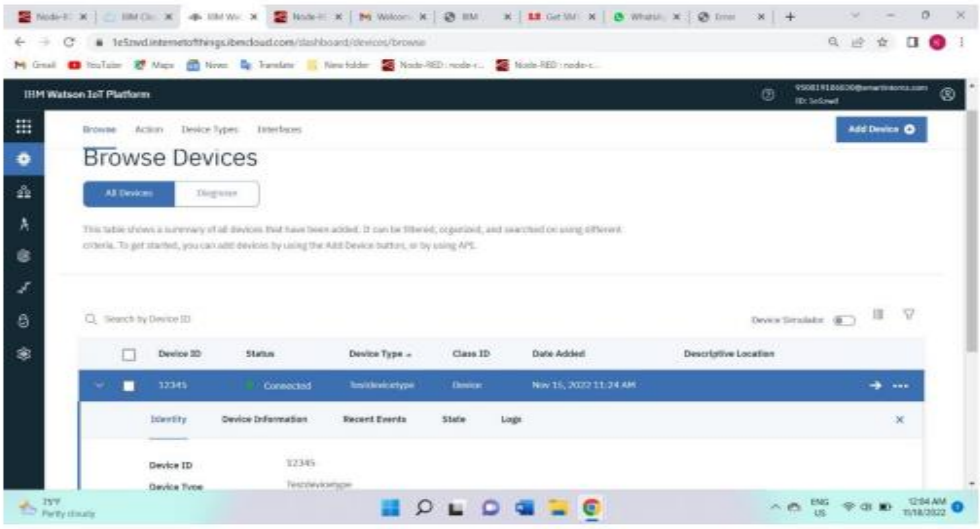
Creating Python Code:

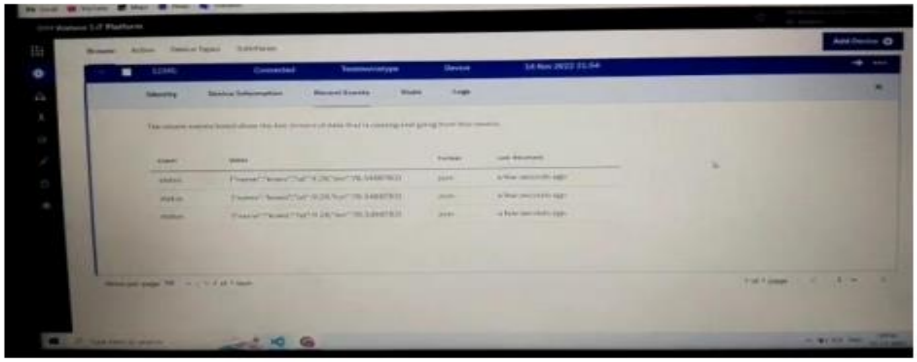
```
import json
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity":{
        "orgId":  "4o1qxb",
        "typeId": "TestDeviceType",
        "deviceId": "12345"
    },
    "auth": {
        "token":"pnhXvzN-sWMKv&hxyi"
    }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "Smartbridge"
    #in area location

    latitude= 17.4225176
    longitude= 78.5458842

    #out area location

    #latitude= 17.4219272
    #longitude= 78.5488783
    myData={'name': name,'lat':latitude, 'lon' :longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
    print("Data Published to IBM IoT platfrom: ", myData)
    time.sleep(5)

client.disconnect()
```



Connecting IBM Watson and python Code:




IBM Watson IoT Platform
Browse
Action
Device Types
Interfaces
Add Device
Browse Devices
All Devices
This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
12345
Connected
Nov 15, 2022 11:24 AM
Identity
Device Information
Recent Events
State
Logs
Device ID
12345
Device Type



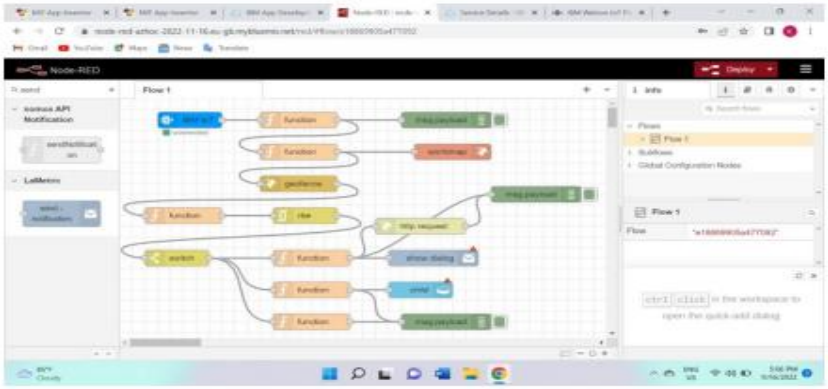
Project Development - Delivery plan sprint -2

IOT Based Safety Gadget for Child Safety Monitoring &Notification

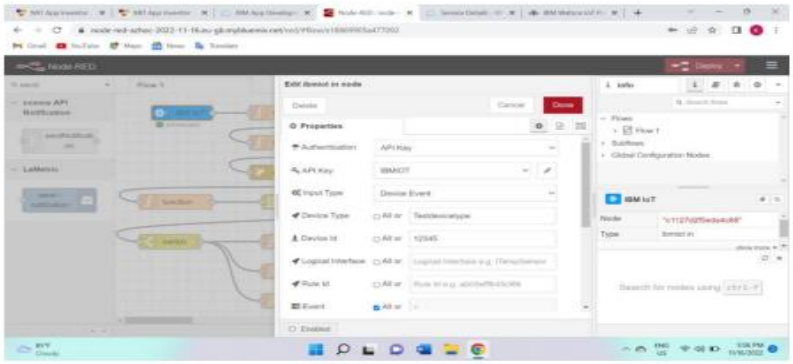
TEAM ID : PNT2022TMID33855

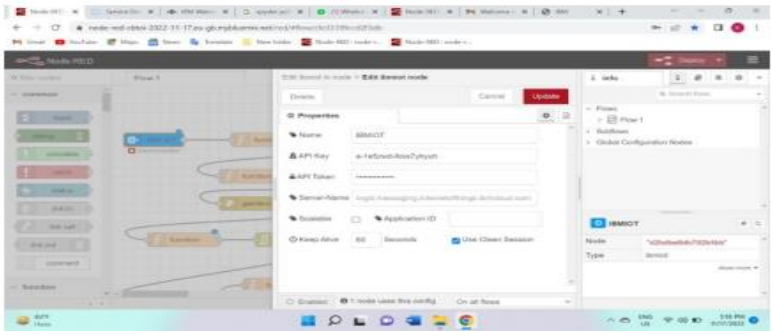
Creating Node - Red service and connecting with IBM cloud

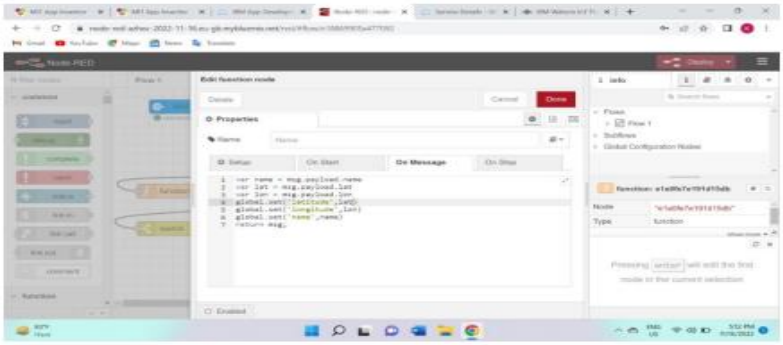
Creating Node-Red service:

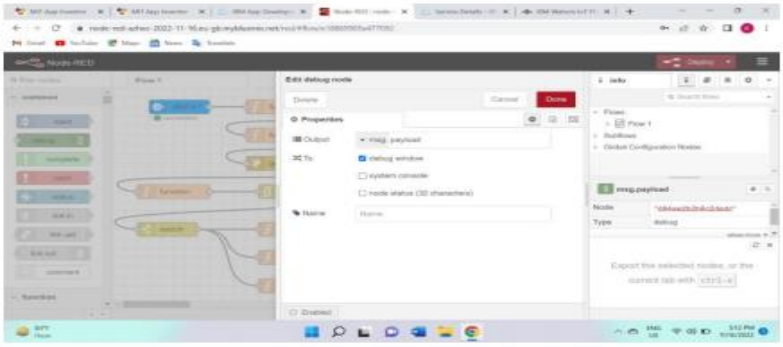


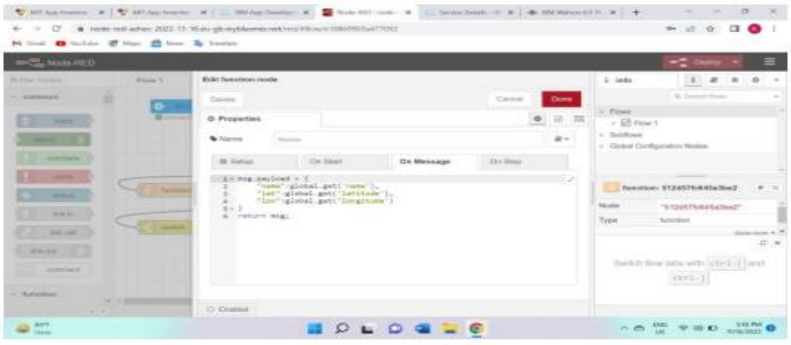
Codes in each Node :

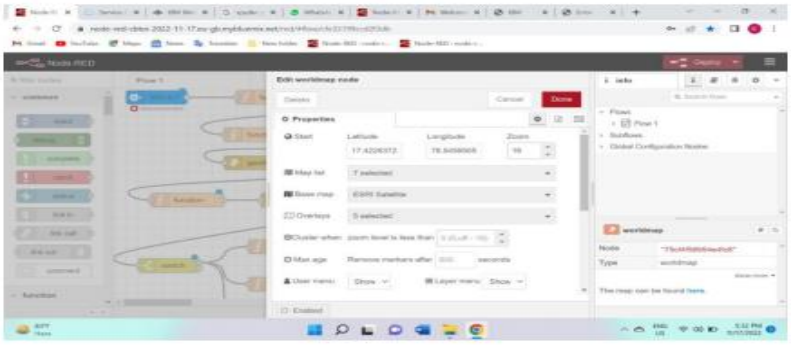


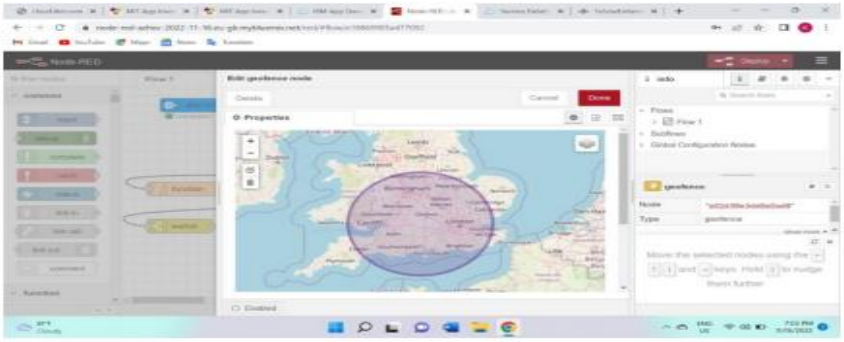


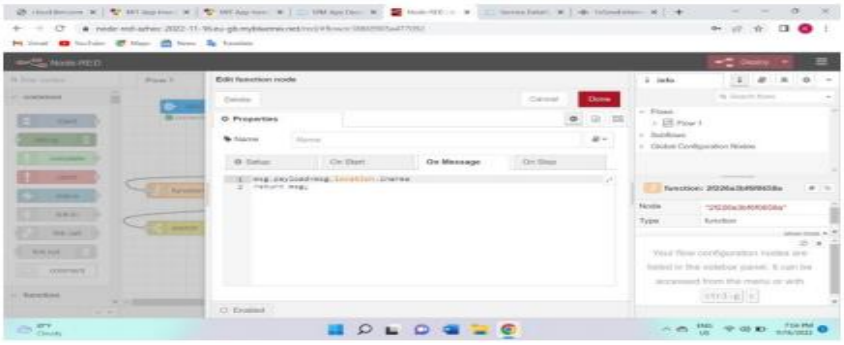


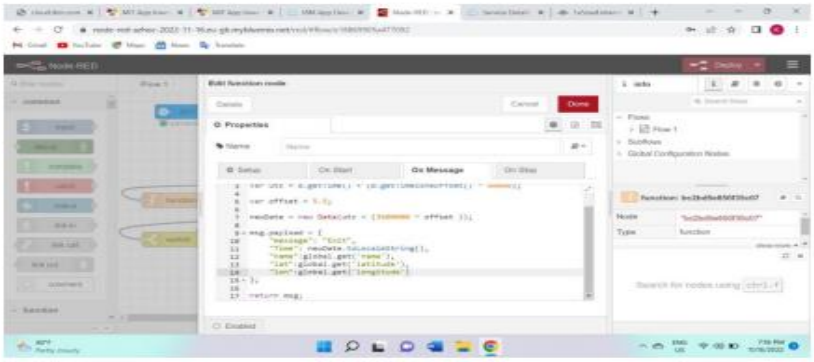


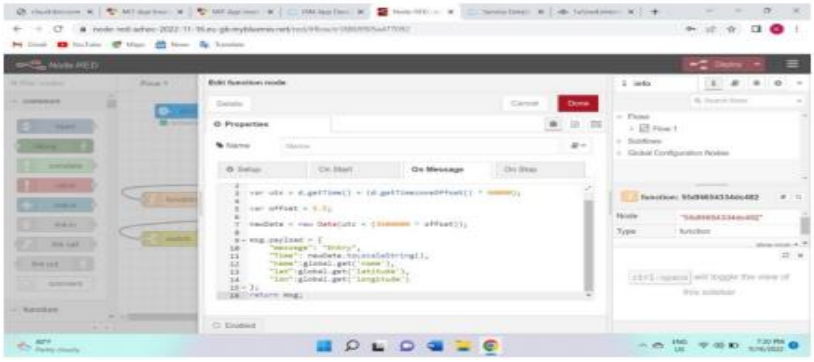


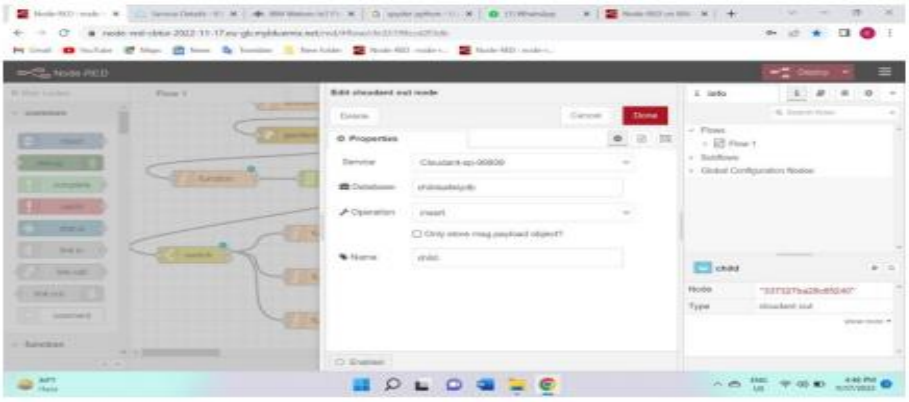




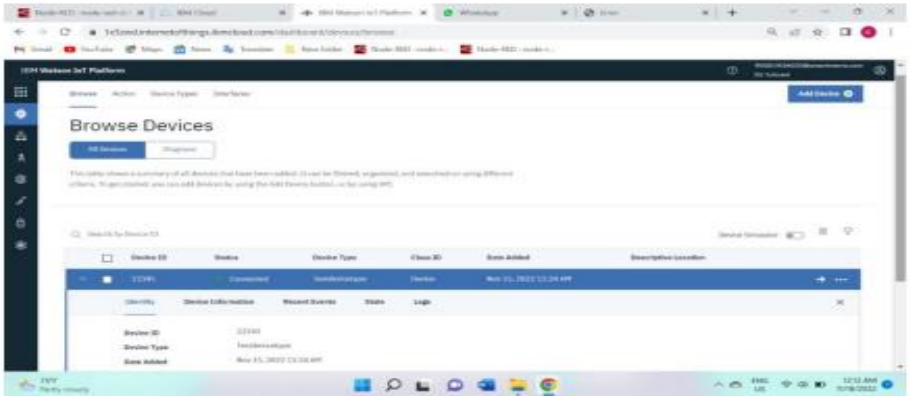




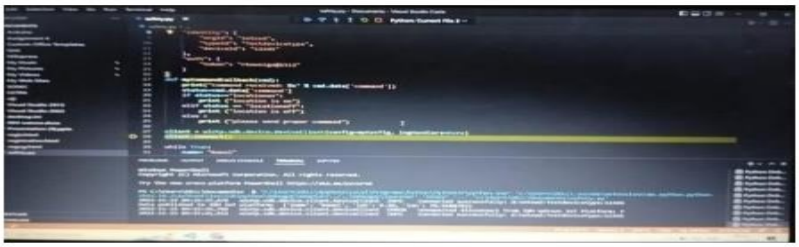




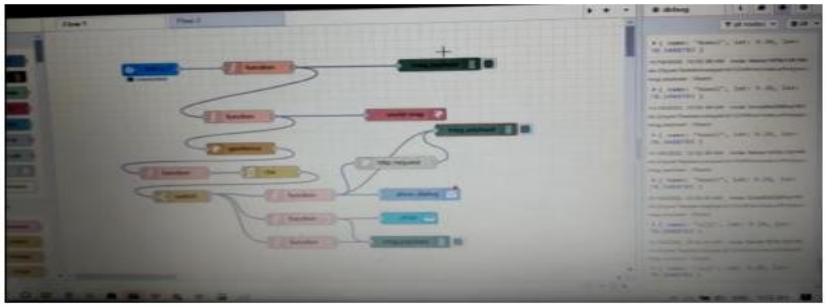
Connecting with IBM IOT node through the API key



Transferring values from Python Code:



Node-Red



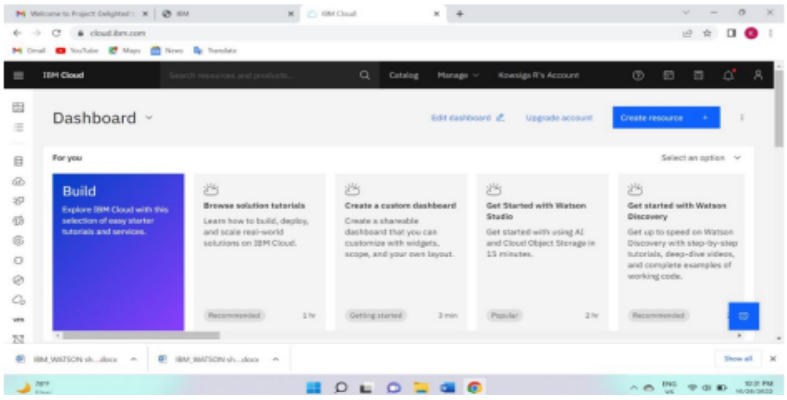
Sprint Planning & Estimation

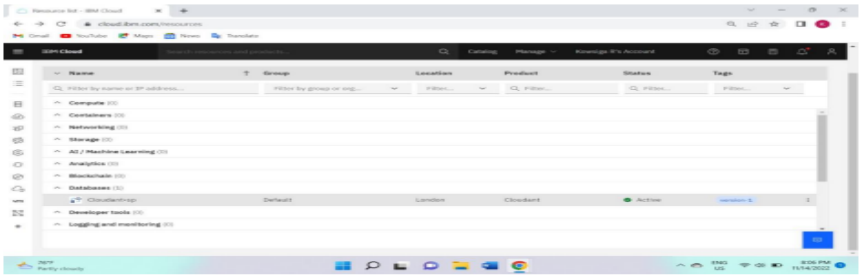
Project Development –Delivery plan sprint-3

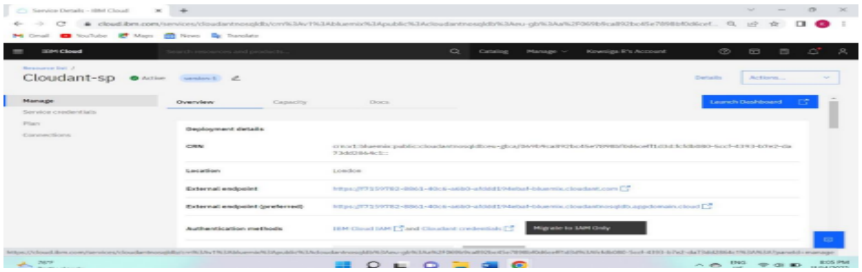
IoT Based Safety Gadget for Child Safety Monitoring & Notification

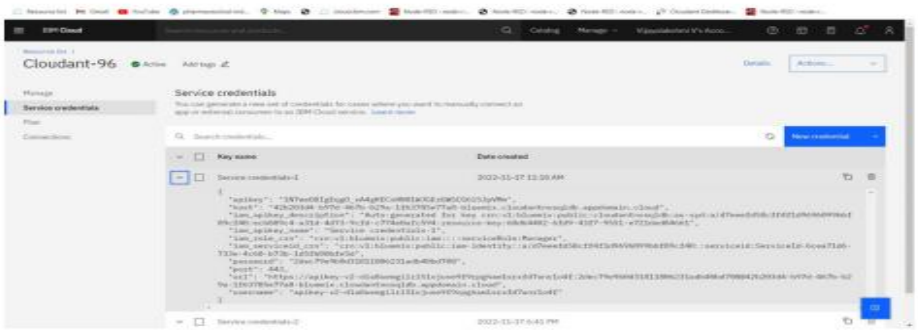
TEAM ID: PNT2022TMID33855

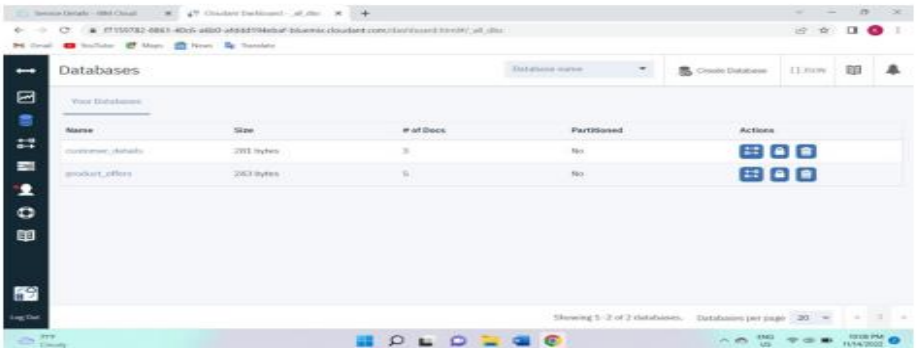
Creating Cloudant DB and integrating Node-Red with the Web UI
Create Cloudant DB:

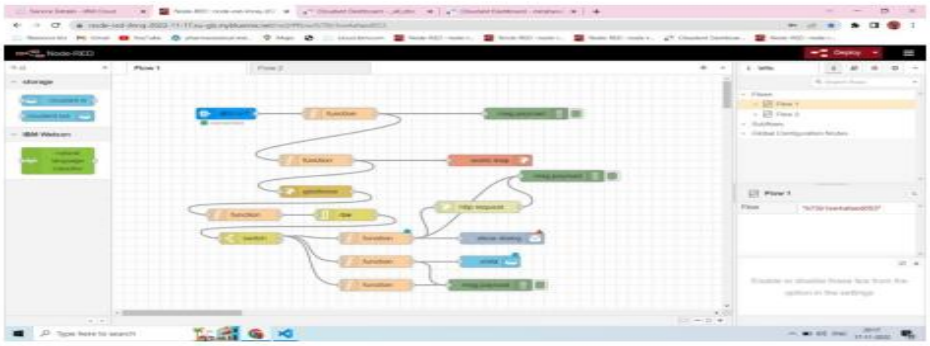




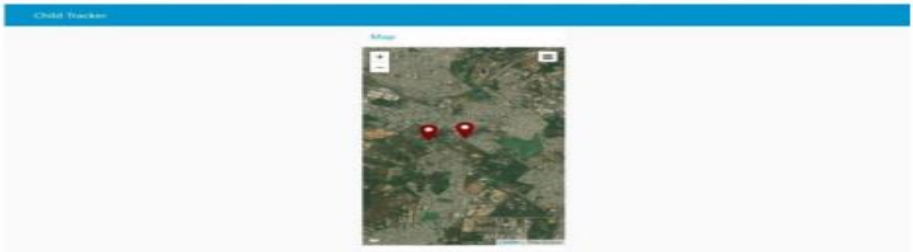

Cloudant-sp


Cloudant-96
Service credentials


Databases



Node-Red Dashboard(Web ui):



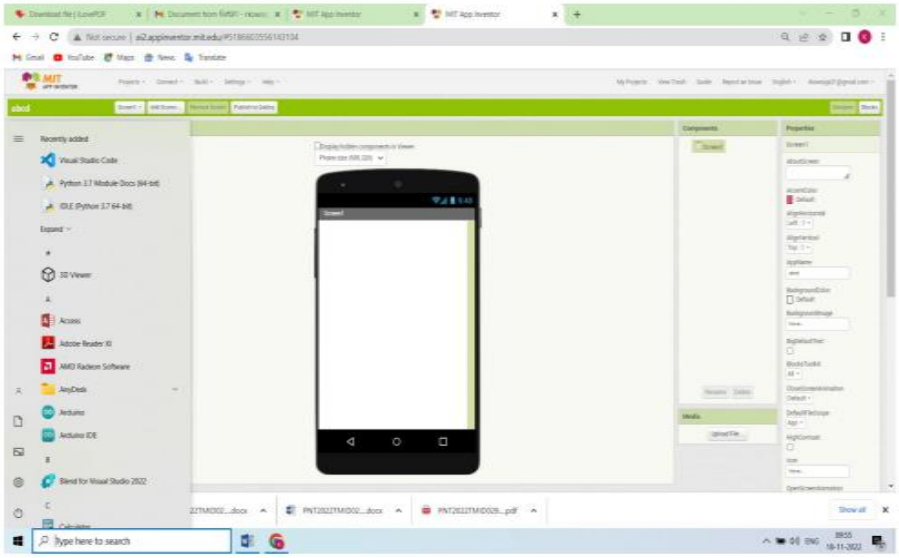
P roject Development – Delivery plan sprint-4

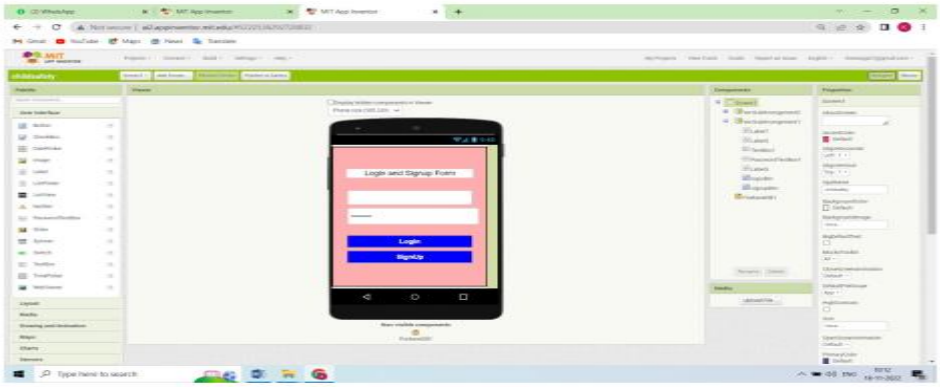
IoT Based Safety Gadget for Child Safety Monitoring & Notification

TEAM ID: PNT2022TMID33855

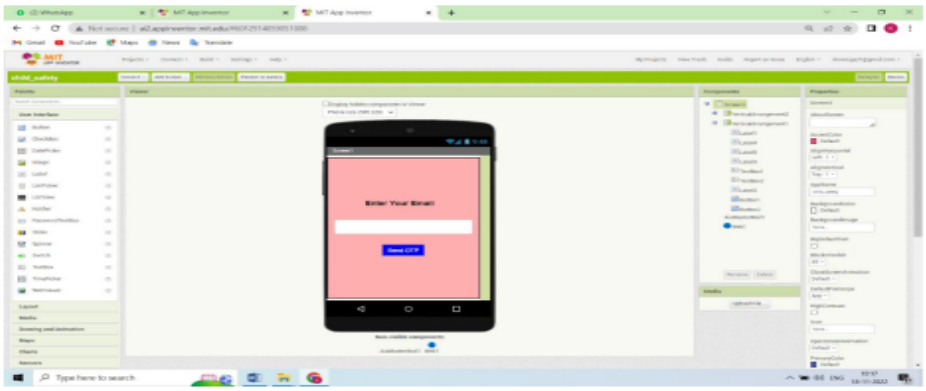
Creating the MIT app and Showing the child's location

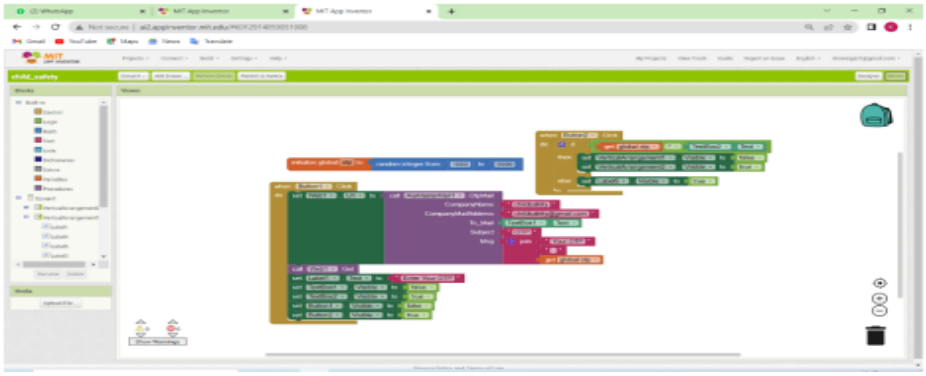
Create App in MIT App inventor:

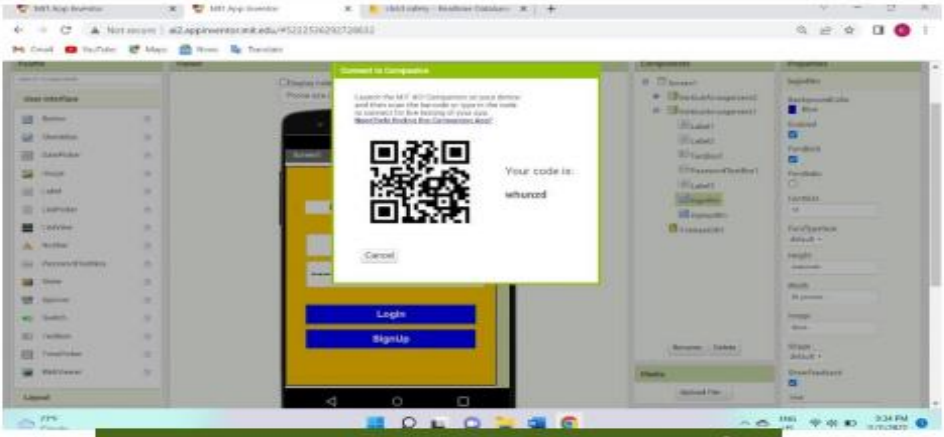




Block Configuration:

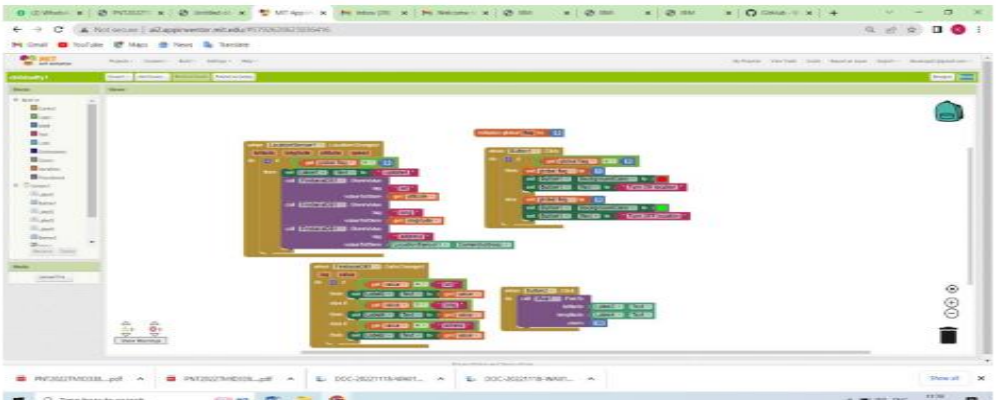


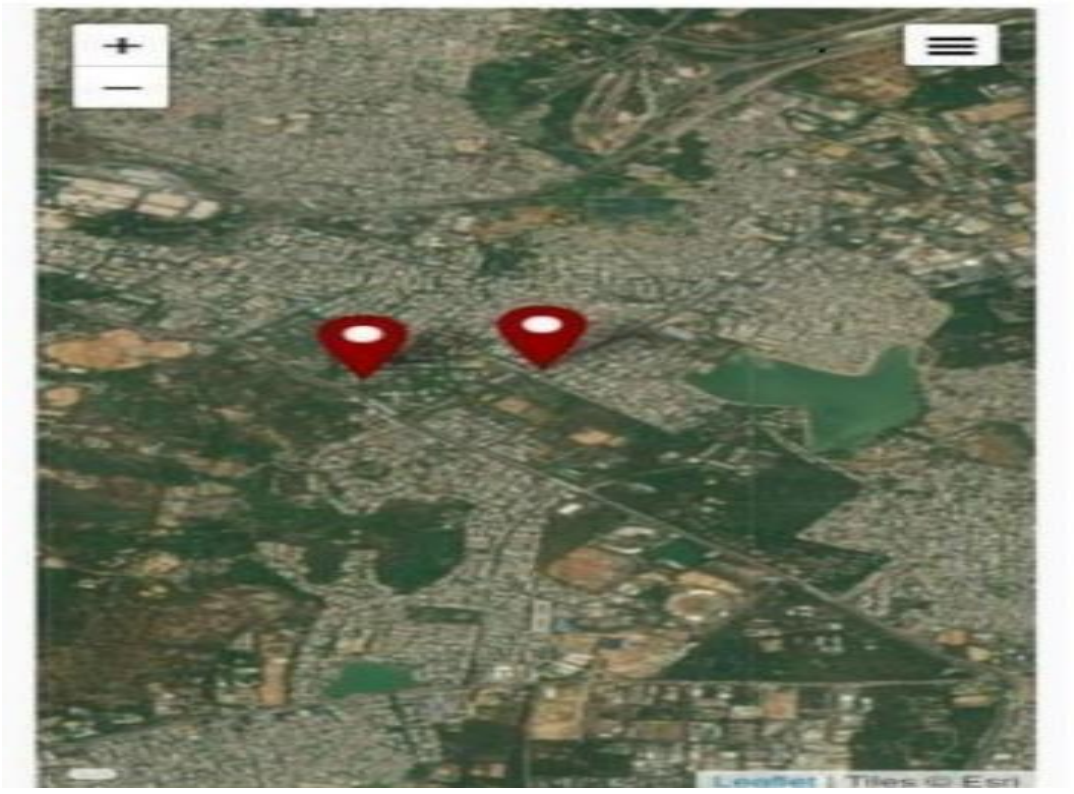



Your code is:
whunzd
Cancel
Login
SignUp

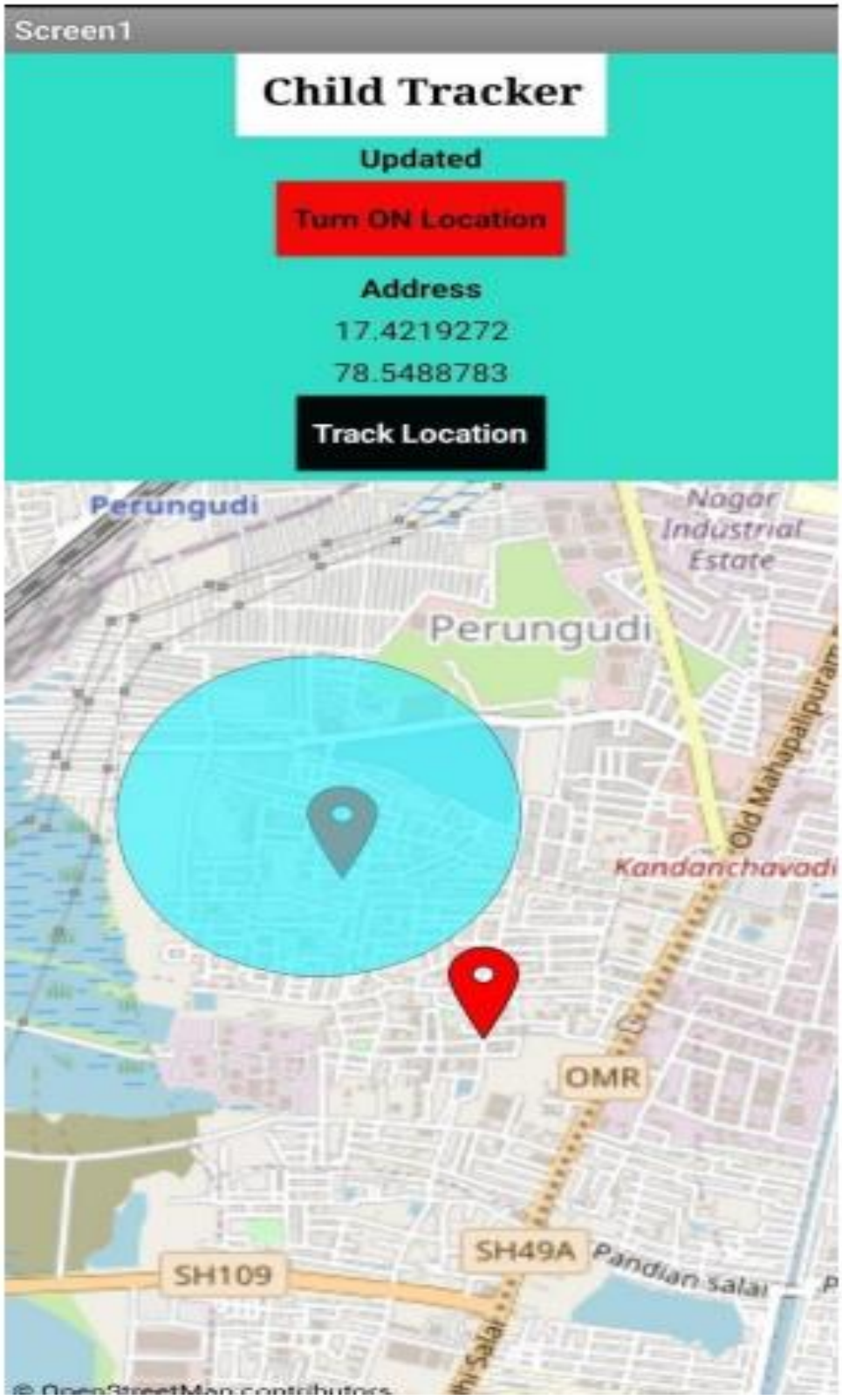

3:54
Screen1
Enter Your Email
rkowsiga21@gmail.com
Send OTP


3:52
Screen1
Enter Your OTP
OTP
Verify OTP
3:54
Screen1
Error 1101: Unable to get a response with the specified URL: http://email.etvbanglanews.com/a/mailer.php?fromName=childsafety&fromEmail=childsafety@gmail.com&toEmail=rkowsiga21@gmail.com&subjectLine=OTP&richMessageText=Your OTP7568




Leaflet | Tiles © Esri

Location Status:



Sprint Delivery Schedule:

Project Planning Phase Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	24 Oct 2022
Team ID	PNT2022TMID33855
Project Name	Project - IOT-Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

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, password, andconfirming my password.	4	High	R.Kowsiga
Sprint-1	Confirmation Email	USN-2	As a user, I will receive confirmation emailand SMS once I have registered for the application	3	High	P.Madhumitha
Sprint-2	Authentication	USN-3	As a user, I can register for the application through Email ID and Mobile App.	2	Low	M.Niffa Meriya
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	2	Medium	B.E Dharani
Sprint-1	Dashboard	USN-5	As a user, I can monitor, measure, analyze relevant data in key areas.	8	High	R.Kowsiga
Sprint-2	Notification	USN-1	As a user, I should be able to receive notification when the child is in emergency situations.	9	High	P.Madhumitha
Sprint-2	Store data	USN-2	As a user, I need to store the location data and child information into the database.	10	High	M.Niffa Meriya
Sprint-2	Communication	USN-3,1	The child and the parent should be able to communicate.	7	Medium	B.E Dharani

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	IoT Device	USN-1,4	We automatically monitor the child in real time using Internet of Things, with the help of GPS, GSM, and Arduino.	6	Medium	R.Kowsiga
Sprint-3	Node RED	USN-5,2	The data stored in IBM Cloud should be integrated properly.	8	High	P.Madhumitha
Sprint-4	User Interface	USN-1,4	The point of human-computer interaction and communication in a device.	7	Medium	M.Niffa Meriya
Sprint-4	Geofencing	USN-2,3,5	Based on the geographical coordinates,the geofence of the child can be done.	8	High	B.E Dharani

Project Tracker, Velocity & Burndown Chart: (4 Marks)

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

Reports from JIRA:

Project Planning Phase

Project Planning (Milestones & Activity list)

Date	29 October 2022
Team ID	PNT2022TMID33855
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Remaining tasks (Milestones & Activities) to be completed

Milestones	Activities
Project development phase	Delivery of sprint- 1,2,3,4
Create and configure and IBM cloud services	Create IBM cloud account
	Create IBM Watson
Create and access deep learning	Create v1 to interact with app deploy
	Create IBM and connect with python
Create & database in cloudant DB	Launch the cloudant DB and Create database
Develop the python flask	Install the python software
	Develop python code
Create the web application	Develop the web application
	To intensity and showcase on open CV window

Finished Tasks (Milestones & Activities)

Milestones	Activities	Description
Ideation phase	literature	Literature survey on the selected project & information gathering
	Empathy Map	Prepare empathy map to capture the user pains & gains, prepare list of problem statement

	Ideation	Organizing the brainstroming session and priorities the top 3 ideas based on feasibility & importance
Project design phase I	Proposed solution	Prepare proposed solution document which includes novelty, feasibility of ideas, business model, social impact, scalability of solution
	Problem solution fit	Prepare solution fit document
	Solution Architecture	Prepare solution architecture document
Project Design Phase II	Customer journey	Prepare customer journey map to understand the user interaction & experience with the application
	Functional requirement	Prepare functional & non functional requirement document
	Data flow diagram	Prepare Data flow Diagram
	Technology Architecture	Draw the technology architecture diagram
Project planning phase	Milstones & Activity list	Prepare milstones and activity list of the project
	Sprint delivery plan	Prepare sprint delivery plan

CODING & SOLUTIONING (Explain the features added in the project along with code):

```
import json

import wiotp.sdk.device

import time

import random
```

```
 myConfig = {

 "identity":{

"orgId": "4o1qxb",

 "typeId": "TestDeviceType",

 "deviceId": "12345"

 },

 "auth": {

 "token":"pnhXvzN-sWMKv&hxyi"

}

} client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

client.connect()

 while True:

 name= "Smartbridge"

#in area location

 latitude= 17.4225176

longitude= 78.5458842

 #out area location
```

```
#latitude= 17.4219272

#longitude= 78.5488783

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

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

qos=0, onPublish=None)

print("Data Published to IBM IoT platfrom: ", myData)

time.sleep(5)

client.disconnect()
```

Feature 1:

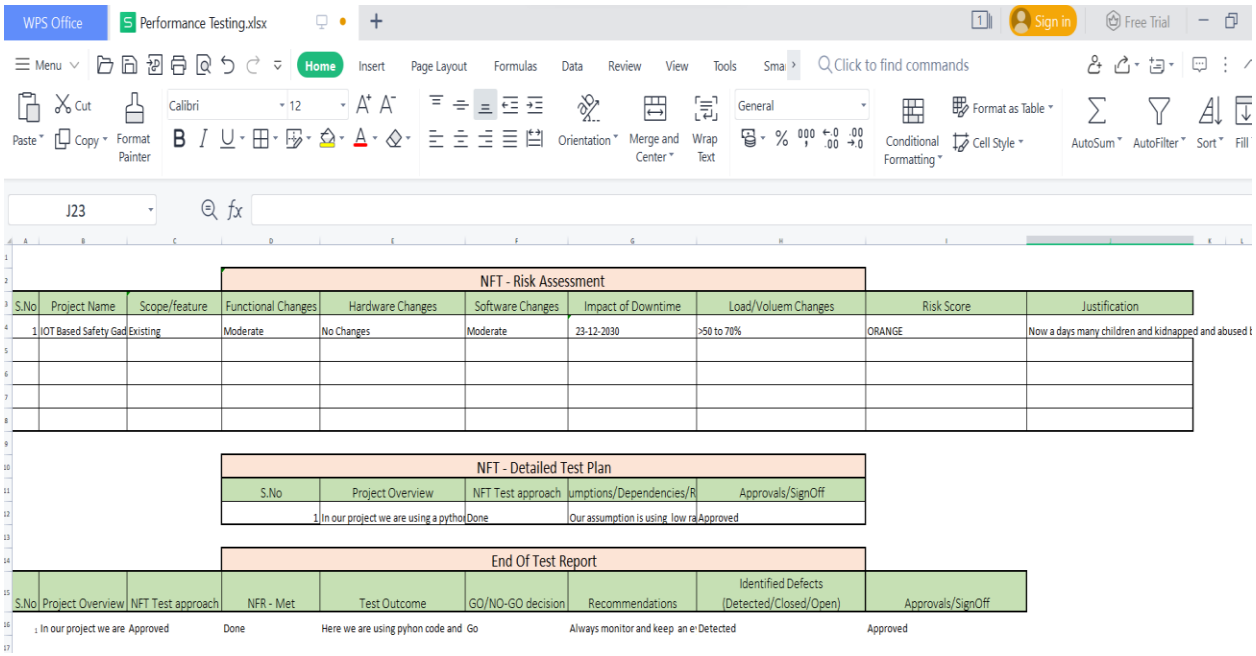
- From mobile cellular GSM network is send, and this network is given to GSM module, it is given to Arduino UNO and to SOS Light and alarm, GPS Sensor and Temperature Sensor is detected by Arduino UNO.

Feature 2:

- Parents and kids link with the distance and the location values obtained from the mobile devices are stored here.
- The values include parent id,kid id,distance,longitude,latitude etc.

TESTING:

Performance Testing:



NFT - Risk Assessment									
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Voluem Changes	Risk Score	Justification
1	IOT Based Safety Gad	Existing	Moderate	No Changes	Moderate	23-12-2030	>50 to 70%	ORANGE	Now a days many children and kidnapped and abused t

NFT - Detailed Test Plan				
S.No	Project Overview	NFT Test approach	umptions/Dependencies/R	Approvals/SignOff
1	In our project we are using a pythol	Done	Our assumption is using low ra	Approved

End Of Test Report								
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff
1	In our project we are	Approved	Done	Here we are using pyhon code and	Go	Always monitor and keep an e	Detected	Approved

Acceptance Testing
UAT Execution & Report Submission

Date	17November 2022
Team ID	PNT2022TMID33855
Project Name	Project - IOT Based Safety Gadget For Child Safety And Notification
Maximum Marks	4 Marks

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [Child Safety] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal	
By Design	10	5	3	2	20	
Duplicate	6	6	5	1	18	
External	7	6	7	2	22	
Fixed	5	4	3	2	14	
Not Reproduced	2	0	1	0	3	
Skipped	2	1	0	0	3	
Won't Fix	0	2	1	0	3	
Totals	32	24	18	7	83	

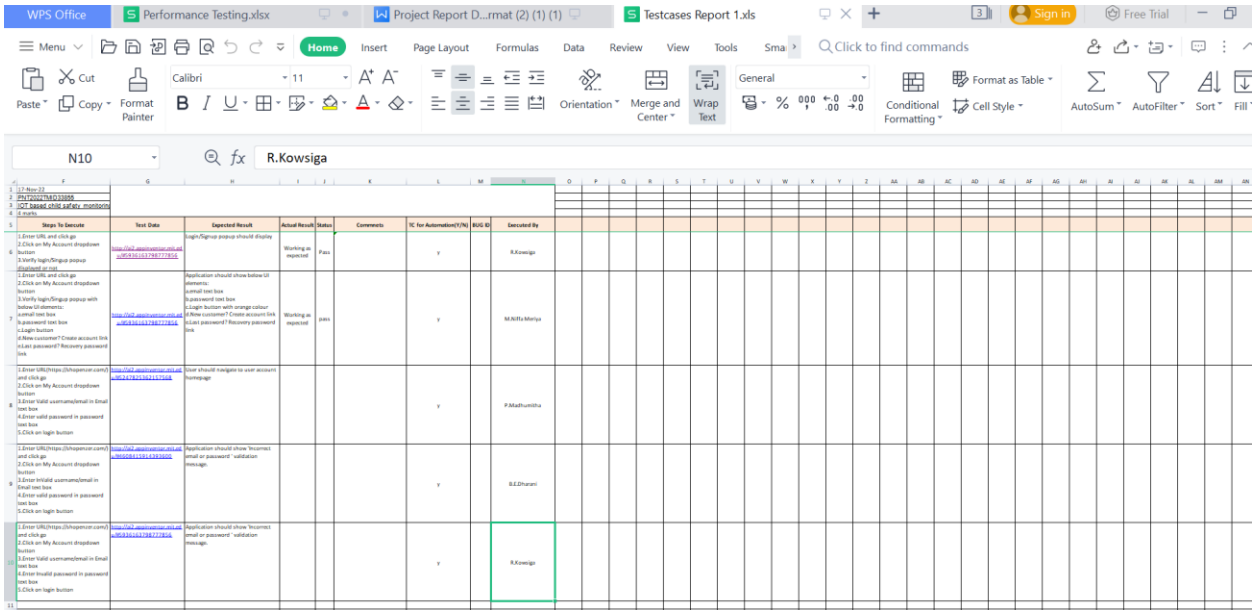
3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	12	2	1	9
Client Application	45	2	5	38
Security	7	1	0	6

Outsource Shipping	6	1	1	4
Exception Reporting	9	3	0	7
Final Report Output	5	0	0	5
Version Control	2	0	0	2

Test Case:



Github link

https://github.com/IBM-EPBL/IBM-Project-30611-1660150636/tree/main/Project%20Devlopment%20Phase

Project Demo Link:

https://drive.google.com/file/d/1eHTFe92_lh2OWY2QT9-3YxyycUfak5kT/view?usp=drivesdk

Source Code:

Creating Python Code:

```
import json
import wiotp.sdk.device
import time
import random
myConfig = {
   "identity":{
      "orgId":  "4o1qxb",
      "typeId": "TestDeviceType",
      "deviceId": "12345"
   },
   "auth": {
      "token":"pnhXvzN-sWMKv&hxyi"
   }
}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
   name= "Smartbridge"
   #in area location

   latitude= 17.4225176
   longitude= 78.5458842

   #out area location

   #latitude= 17.4219272
   #longitude= 78.5488783
   myData={'name': name,'lat':latitude, 'lon' :longitude}
   client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)
   print("Data Published to IBM IoT platfrom: ", myData)
   time.sleep(5)

client.disconnect()
```

CONCLUSION:

Children are powerful agents of change and should be included during the development and implementation of child injury prevention projects at local,national and international levels.Tell your child to avoid talking to people they don’t known when you’re not around.Make sure your child knows never to walk away with strangers.Make sure your

child understands that they should always tell you if a stanger approaches,and never to keep this secrets.The children must byheart their address and telephone number .