PROJECT REPORT

Project : :IoT Based Safety Gadget for Child Safety
Title Monitoring & Notification

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Team ID :PNT2022TMlD33201

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CHAPTER 1
INTRODUCTION

1.1 PROJECT OVERVIEW

Child Safety and Tracking Is of Utmost Importance as Children Are the Most Vulnerable. With Increasing Crime Rates Such as Child Kidnaping, Child Trafficking, Child Abuse and So On, The Need for An Advanced Smart Security System Has Become a Necessity. With This Motivation, A Self-alerting “INTELLIGENT CHILD SAFETY SYSTEM USING IOT DEVICES” Is Developed to Aid Parents to Monitor and Track Their Children in Real Time as An Alternate to Stay Beside Them. This System Is Intended as An Everyday Wearable Device on the Child, In the Form of a Wrist Band, Hand Glove, Arm Band or A Belt. The System Is Designed to Continuously Monitor the Location and Body Vitals of Children. This Electronic System Comprises of An Arduino Controller, A Raspberry-pi And Sensors to Detect the Changes in Parameters Such as Temperature, BVP (Blood Volume Pulse) And GSR (Galvanic Skin Response). The System Also Uses A GSM And GPS Module. Decision Tree Classifier Algorithm Is Used to Detect Any Distress

Situation with Sensor Values as Inputs. The Location of the Victim Is Traced Using the GPS Module and Is Sent to The Registered Contact Numbers as a Text Message Using A GSM Module. The Novelty Of This Work Lies In The Autonomous decision-making Process With Increased Accuracy

1.2 PURPOSE

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.

CHAPTER 2
LITERATURE SURVEY

2.1 EXISTING PROBLEM

Real-Time Child Abuse and Reporting System 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 GSM has a SIM which is used to send an alert message or an alert call to the trusted peoples. GPS is used to track the live location and it is used when needed. 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. The disadvantage of this project are, i. The child could not produce the exact alert command during a panic condition. ii. The command produced may not match with the previously stored command. iii. This project requires manual intervention.

2.2 REFERENCES

1) [PDF] Survey on Child Safety Wearable Device Using IoT Sensors and Cloud Computing | Semantic Scholar

AUTHOR:
Prakriti Agarwal, R Ramya, Rachana Ravikumar, Sabarish G, Sreenivasa Setty , BE Students, Department of Information Science and Engineering [5] Associate Professor, Department of Information Science and Engineering Dayananda Sagar Academy of Technology and Management, Bangalore, Karnataka, India

2) A Benchmark Database and Baseline Evaluation for Fall Detection Based on Wearable Sensors for the Internet of Medical Things Platform | Semantic Scholar

AUTHOR:
ZHI LIU 1 , YANKUN CAO 1 , LIZHEN CUI 2 , JIAHUA SONG1 , AND GUANGZHE ZHAO 3 1School of Information Science and Engineering, Shandong University, Qingdao 266237, China 2School of Software, Shandong University, Jinan 250101, China 3School of Electrical and Information Engineering, Beijing University of Civil Engineering and Architecture, Beijing 100044, China Corresponding authors: Lizhen Cui (liuzhi@sdu.edu.cn) and Guangzhe Zhao (zhaoguangzhe@bucea.edu.cn) This work was supported in part by the National Key Research and Development Program under Grant 2017YFB1400102 and Grant 2016YFB1000602, in part by the Key Research and Development Plan of Shandong Province under Grant 2017CXGC 1503 and Grant 2018GSF118228, and in part by the Shandong Provincial Natural Science Foundation under Grant ZR2012FZ005 and Grant ZR 2017ZB0420.

3)[PDF] ChildGuard: A Child-Safety Monitoring System | Semantic Scholar
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technology from Henan University, China. Contact him at

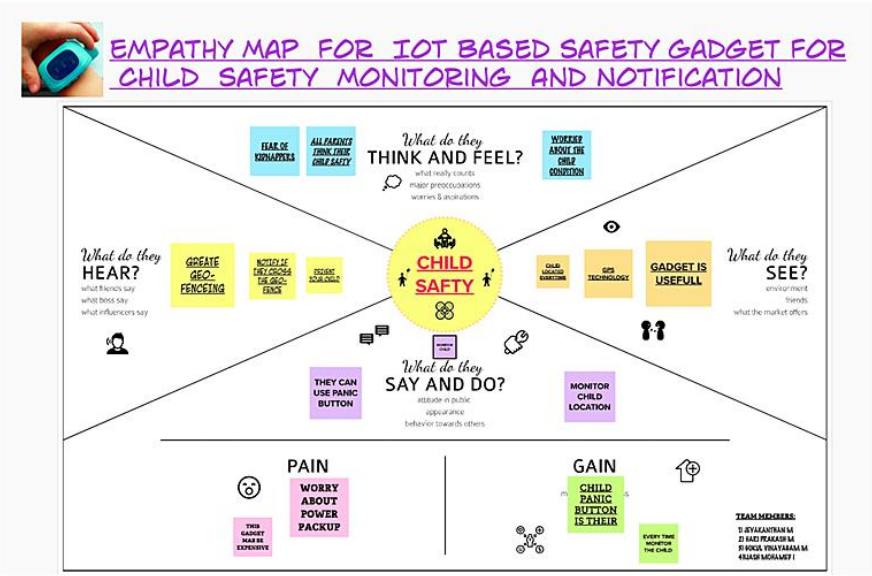
guohy4work@foxmail.com.

2.3 PROBLEM STATEMENT DEFINITION

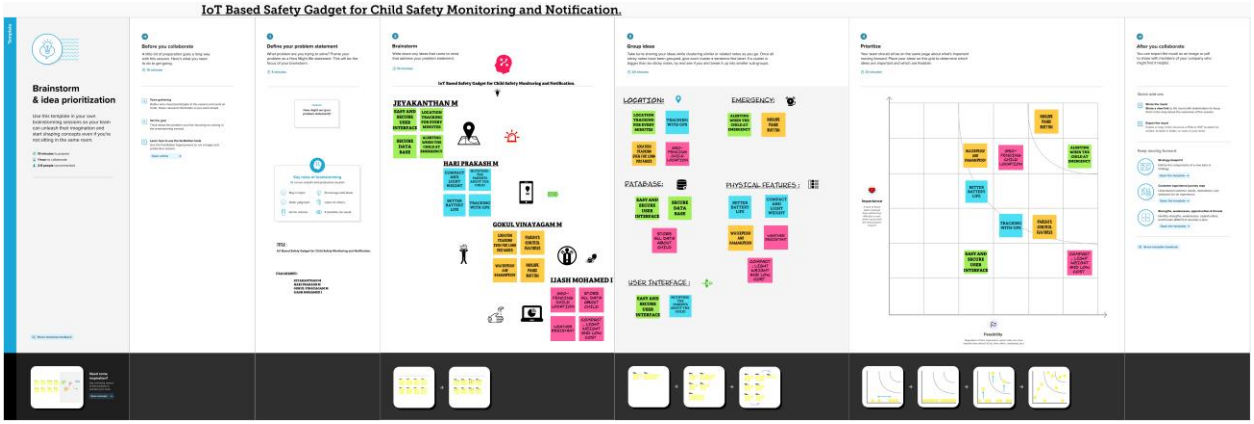
Some people know about the current issues are the most important ones because it is mostly a lot in the news but sometimes other big issues that change our lives are not mentioned in the news because they are issues that can hurt us in the long run or not really important for the modern public. One issue I can tell you about is the forest fires. Sometimes people don 't notice or now about the forest fires until it is talk in the news and it 's mostly because it has done a great damage.

CHAPTER 3
IDEATION AND PROPOSED SOLUTION

3.1 EMPATHY MAP CANVA



3.2 IDEATION & BRAINSTORMING



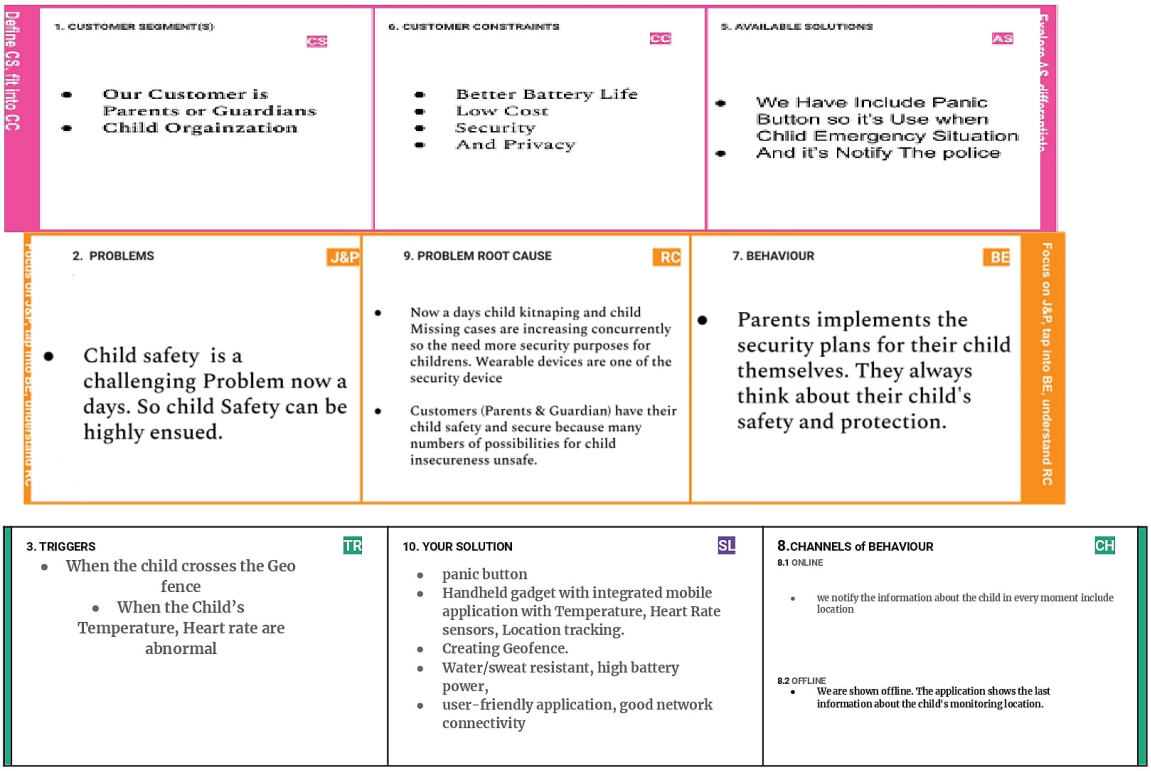
S.No.	Parameter	Description
1.	Problem Statement	**IoT Based Safety Gadget for Child Safety Monitoring and Notification**
2.	Solution Description	**Child Safety and Tracking Is of Utmost Importance as Children Are the Most Vulnerable. With Increasing Crime Rates Such as Child Kidnaping, Child Trafficking, Child Abuse and So On, The Need for An Advanced Smart Security System Has Become a Necessity**
3.	Uniqueness	❖ **PAINC BUTTON** ❖ **PARENTS CONTROL FEATURES** ❖ **GEO-FENCING CHILD LOCATION** ❖ **WEATHER RESISTANT**
4.	Customer Satisfaction	**Child Tracker Helps Parents to Monitor the Child Location Improved Safety Index of Places, Provides Freedom for the Children with Special Needs.Parents Track their Children in Real Time of the Location Tracker by GSM**
5.	Business Model (Revenue Model)	**Selling This Product Parents , Child Organization, and and Needers.** **After 3 Months we Introduce Subscription Mode**
6.	Scalability of the Solution	**IoT Based Safety Gadget for Child Safety Monitoring and Notification its Ensure Child Safety**

3.4 PROBLEM SOLUTION FIT

Project Title: IoT Based Safety Gadget for Child Safety Monitoring and Notification

Team ID: PNT2022TMID33201

TEAM MEMBERS: JEYAKANTHAN M , HARI PRAKASH M , GOKUL VINAYAGAM M , IJASH MOHAMED I



4. EMOTIONS: BEFORE / AFTER EM Before: The parents feel secure about their children; they frequentlycomeOut/Roaming and check their child's activities and tendencies. After: The parents feel secure for their child and check their location simultaneously for activities and tendencies in location.		

CHAPTER 4
REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

FUNCTIONALREQUIREMENTS: -Following are the functional requirements of the proposed solution

Functional Requirements :

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through
FR-2	User Confirmation	Confirmation via Email/SMS Confirmation via OTP
FR-3	Child information	Child Name, Address, Number,Alternative Number
FR-4	Location	GPS Module, WIFI Module
FR-5	Sensors	Temperature, Heart Rate ,Motion
FR-6	Notification	When crossing Geo Fence

NON-FUNCTIONALREQUIREMENTS:

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

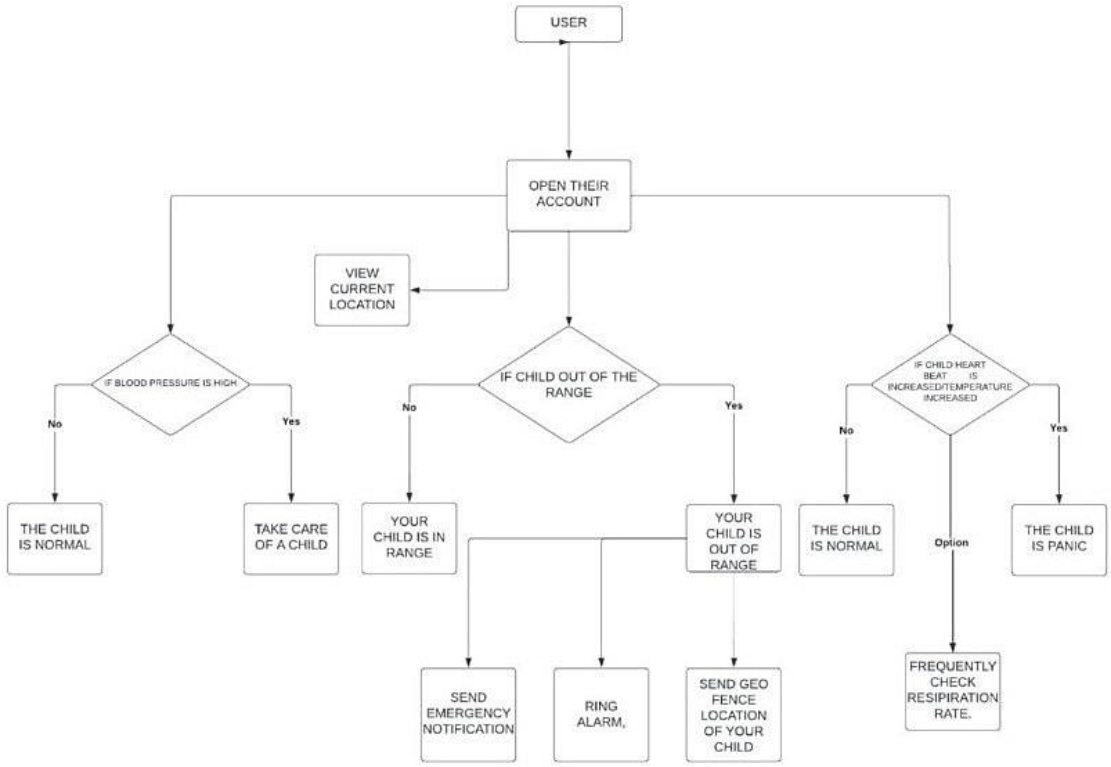
Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	This device is used help the child from critical situation
NFR-2	**Security**	Data is secure , Information don't share anyone
NFR-3	**Reliability**	This project will help the parent to monitor the child's location and send a notification to the parents or guardians.
NFR-4	**Performance**	• IOT devices and sensors are used to indicate the parents through a message if the child • press the emergency button. • Long battery life and accuracy
NFR-5	**Availability**	All the time availability until battery goes low

CHAPTER 5

PROJECT DESIGN

Data Flow Diagram

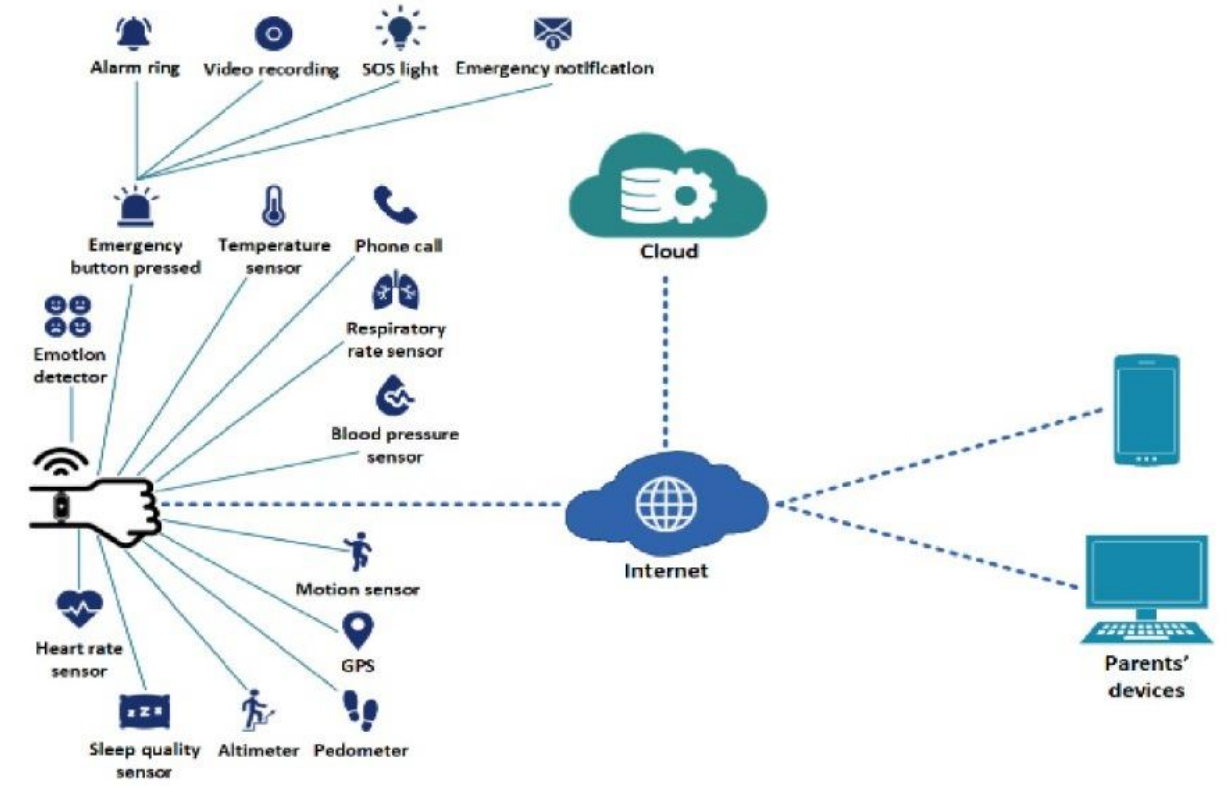


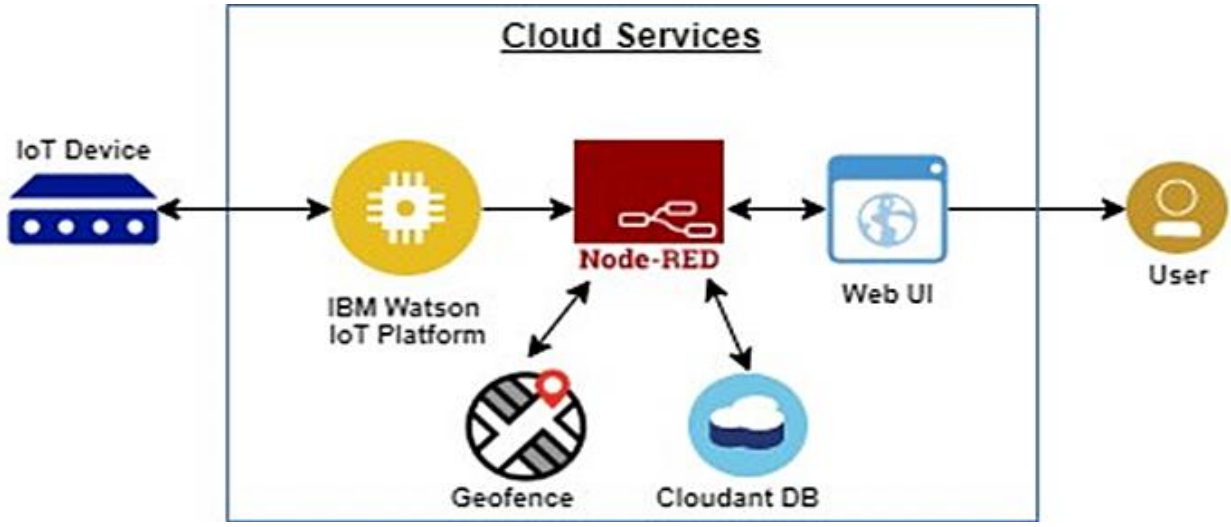
User Stories :

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application 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 confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook or Google Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-6	Can monitor child location		High	Sprint -3
Customer (Web user)		USN-7	The parent can monitor his/her child's temperature,heart rate blood pressure,location	Notify emergency situation	Medium	Sprint -3
Customer Care Executive		USN-8	ON/OFF notification	Notification is sent every one minute till parent acknowledgement	High	Sprint -4
Administrator		USN-9	Locating their geo fence for further use		Medium	Sprint -4
		USN-10	Adding alternative mobile number Exl parents number,police number	Verify alternate number	Medium	Sprint -3
	Application	USN-11	Integrating gadget with mobile app using WIFI module	Verify connection with device	Medium	Sprint -2
		USN-12	Make user friendly application		Low	Sprint -2
		USN-13	Proper network connection	Ensure network	Medium	Sprint -3

5.2 SOLUTION & TECHNICAL ARCHITECTURE

Solution Architecture Diagram:





CHAPTER 6
PROJECT PLANNING AND SCHEDULING

6.1 SPRINT PLANNING AND ESTIMATION

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

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	JEYAKANTHAN M
Sprint-1	Confirmation Email	USN-2	As a user, I will receive a confirmation email once I have registered for the application	4	High	HARI PRAKASH M
Sprint-1	Authentication	USN-3	As a user, I can register for the application through Gmail and mobile app.	4	Medium	GOKUL VINAYAGAM M
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password	4	High	IJASH MOHAMED I

6.2 SPRINT DELIVERY SCHEDULE

Sprint-1	Dashboard	USN-1	As a user, I need to be able to view the functions that I can perform	4	High	HARI PRAKASH M
Sprint-2	Notification	USN-1	As a user, I should be able to notify my parent and guardian in emergency situations	10	High	GOKUL VINAYAGAM M
Sprint-2	Store data	USN-2	As a user, I need to continuously store my location data into the database.	10	Medium	JEYAKANTHAN M
Sprint-3	Communication	USN-3,1	I should be able to communicate with my parents	6	Low	HARI PRAKASH M, GOKUL VINAYAGAM M
Sprint-3	IoT Device – Watson communication	USN-1,4	The data from IoT device should reach IBM Cloud	7	Medium	HARI PRAKASH M IJASH MOHAMED I
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	JEYAKANTHAN M IJASH MOHAMED I
Sprint-4	User – WebUI interface	USN-1,4	The Web UI should get inputs from the user	6	High	JEYAKANTHAN M GOKUL VINAYAGAM M

Sprint-4	Geofencing	USN-2,3,1	The geofencing of the child should be done based on the geographical coordinates	7	High	IJASH MOHAMED I, GOKUL VINAYAGAM M JEYAKANTHAN M

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	10	2 NOV 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	10	9 NOV 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 NOV 2022

CHAPTER 7
CODING & SOLUTIONING

import time

```
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "af19wm"
deviceType = "12345678"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"
try:
 deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-
method":authMethod, "auth-token": authToken}
 deviceCli = ibmiotf.device.Client(deviceOptions)
#.....................................................
except Exception as e:
 print("Caught exception connecting device: %s" % str(e))
 sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type
#"greeting" 10 times
print("power on ")
print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
print()
name=str(input("enter your child name:"))
while True:


 temperature=random.randint(20,35)#random temperature for your child
 latitude=random.uniform(16.781377,16.78643)#random latitude for your child
 longitude=random.uniform(81.129113,81.134014)#random longitude for your child
 a="Child inside the geofence"
 b=" Child outside the geofence"
 c="High temperature"
 d="Low temperature"
 x={'your_child_Zone':a}
 y={'your_child_Zone':b}
 z={'temp_condition':c}
 w={'temp_condition':d}
 time.sleep(3)


 data = { 'temp' : temperature, 'lat': latitude,'lon':longitude,'name':name }
 #print data
 def myOnPublishCallback():
  print ("Published Temperature = %s C" % temperature, "latitude = %s %%" % latitude,
```

```
"longitude = %s %%" % longitude, "to IBM Watson")
 print("\n")
 success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data, qos=0,
on_publish=myOnPublishCallback)
 if latitude>=16.78200 and latitude<=16.786000 and longitude >=81.130000 and
longitude<=81.133000:


deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publish=myOnPublishCallb
ack)

   print(x)
   print("\n")
else:


deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publish=myOnPublishCallb
ack)
 print(y)
 print("\n")

if (temperature>35):


deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publish=myOnPublishCallb
ack)
  print(c)
  print("\n")

else:


deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=myOnPublishCall
back)
 print(d)
 print("\n")


if not success:
  print("Not connected to IoTF")
  print("\n")
  time.sleep(0)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

CHAPTER 8
TESTING

8.1 TEST CASES

LoginPage TC 007	Functional	Login page : into application with	, 1.Click on the Application Verify user is able to log 2.Enter Valid username in username text box 3.Enter valid password in password text box :InValid credentials 4.Click on submit button	Username: abcd password•. 1234	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass			Gokul vinayagam
LoginPage TC 008	Functional	Add child information	'1. Open the Application Verify user is able to add 2. enter the username and password. 'child information 1 3. click child 1 and add information i.e.	Username: abcd password•. 1234	Application should show the child information with its	Working as expected	Pass			Ijash mohamed
LoginPage TC 009	Functional	Check Location	I I. Click on Location Track the location of the Child ¹2. Enable location for the app 3 .Click on track location	Username: abcd Password.• 1234	Show the current location of the Child	Working as expected	Pass			Gokul vinayagam
LoginPage TC 010	Functional	Get Temperature	TO obtain the temperature of the Child	I I. Click on Temperature 2. CLick ENABLE	Username: abcd Password.• 1234	To know the temperature	Working as expected	Pass			Jeyakanthan
LoginPage TC 011	Functional	Create Geo Fence	Create a geo fence for the Child	I I. Click on Create Geo fence 1 2. Set the radius	Username: abcd Password.• 1234	To create geo fence for the respective location	Working as expected	Pass			Hari prakash

Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	BUG ID	Executed By
LoginPage TC 001	Functional	Home Page	Verify user is able to see the Login/Signup popup •when user opens the application	1.Click on the application 2.Verify login/Singup popup displayed or not	Username: abcd password•. 1234	Login/Signup popup should display	Working as expected	Pass			jeyakanthan
LoginPage TC 002	Functional	Home Page	Verify that error message is displayed when the user enters wrong credentials	•I.Open the App 2. Enter invalid username and password.	Username.• xyzw password•. 8765	Error message should be displayed	Working as expected	Pass			Gokul vinayagam
LoginPage TC 003		Home Page	Verify the UI elements in Login/Signup popup	1.Click on the Application 12.Verify login/Signup popup with below UI elements: a.Username text box	Username: abcd password•. 1234	Application should show below UI elements: a.Username text box b. assword text box	Working as expected	Pass			Hari prakash
LoginPage TC 004	Functional	Home page :	Verify user is able to log into application with Valid credentials	1.Click on the Application 2.Enter Valid username in username text box 3.Enter valid password in password text box 4.Click on submit button	Username: abcd password•. 1234	User should navigate to screen 2	Working as expected	Pass			Ijash mohamed
LoginPage TC 005	Functional	Login page :	Application Verify user is able to log into application with password text box I InValid credentials	'1.Click on the 2.Enter Valid username in username text box 3.Enter valid password in 4.Click on submit button	Username: abcd password•. 1234	Application should show 'Incorrect email or password validation message.	Working as expected	Pass			Hari prakash
LoginPage TC 006	Functional	Login page ;	Application Verify user is able to log into application with password text box :InValid credentials	1.Click on the 2.Enter Valid username in username text box 3.Enter valid password in 4.Click on submit button	Username: abcd password.• 1234	Application should show 'Incorrect email or password validation message.	Working as expected	Pass			jeyakanthan

8.2 USER ACCEPTANCE TESTING

8.2.1 DEFECT ANALYSIS

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	1	1	0	0	2
Duplicate	0	0	0	0	0
External	1	1	0	0	2
Fixed	1	1	1	0	3
Not Reproduced	0	0	0	0	0

Skipped	0	1	0	0	1
Won't Fix	0	0	0	0	0
Totals	3	4	1	0	8

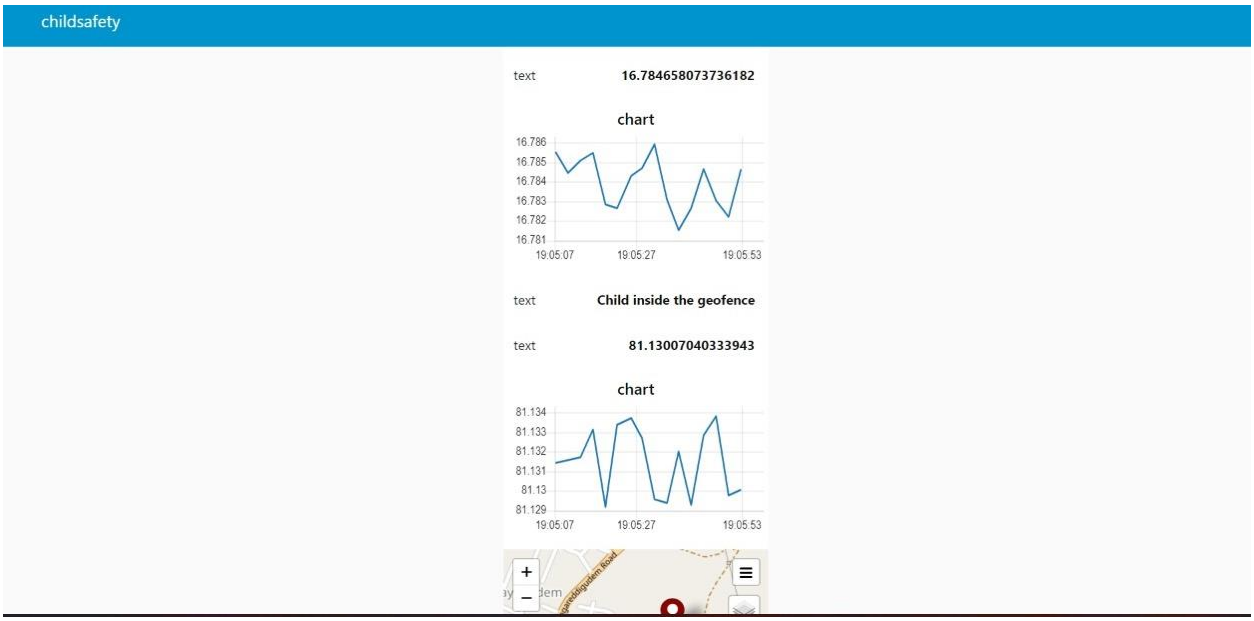
8.2.2 TEST CASE ANALYSIS

- **Test Case Analysis**

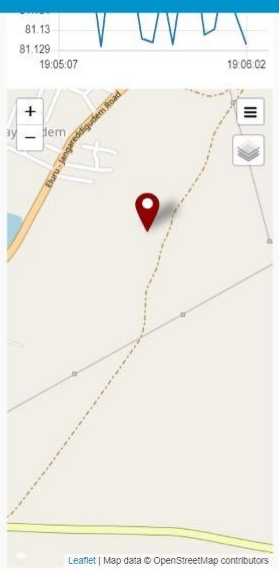
  This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	0	0	0	0
Client Application	5	0	0	5
Security	1	0	0	1
Outsource Shipping	3	0	0	3
Exception Reporting	5	0	0	0

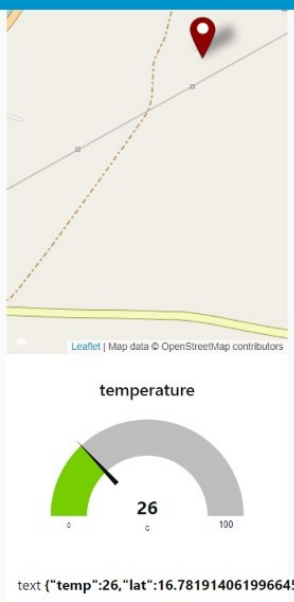
CHAPTER 9
RESULTS



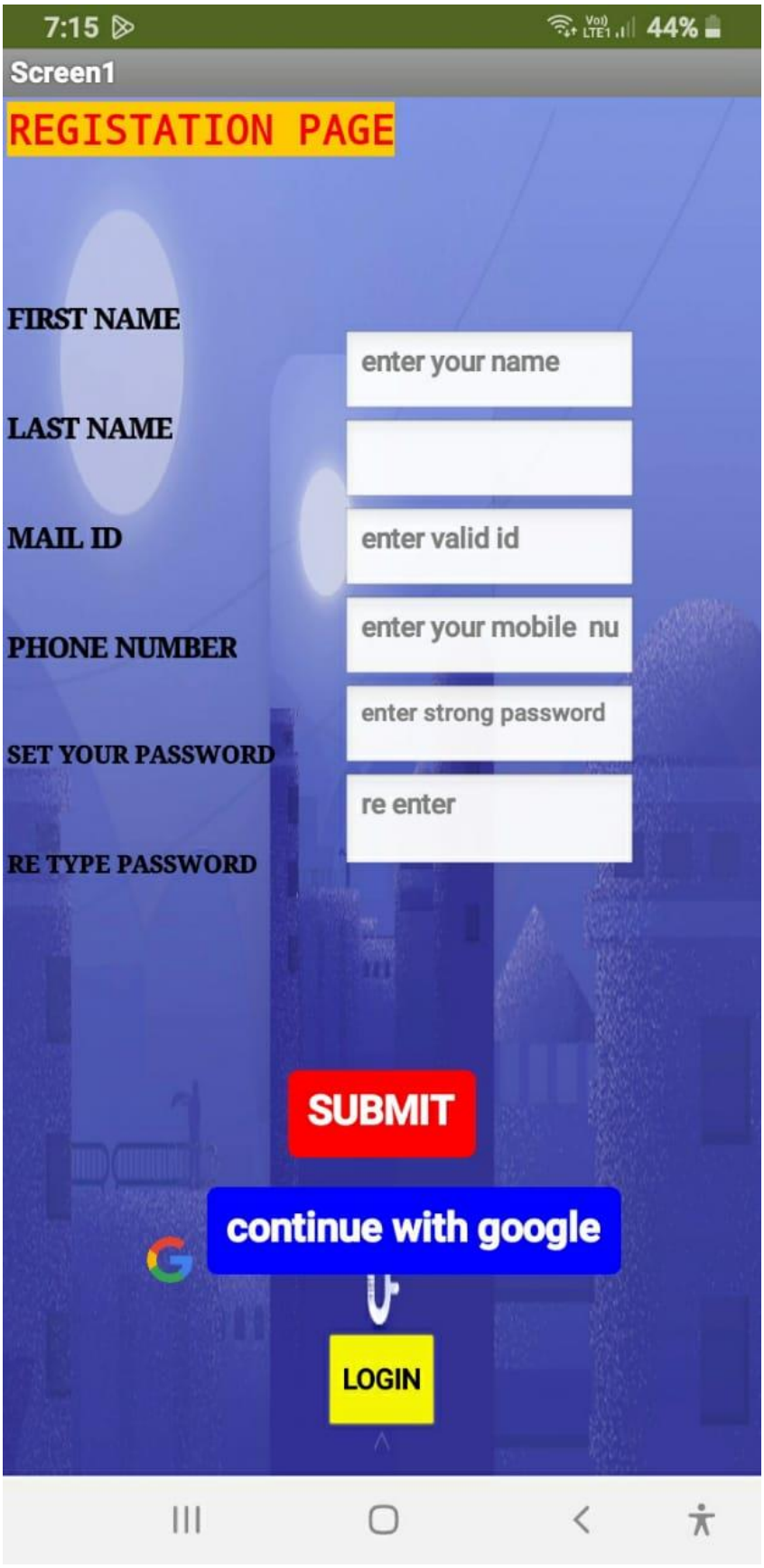
childsafety

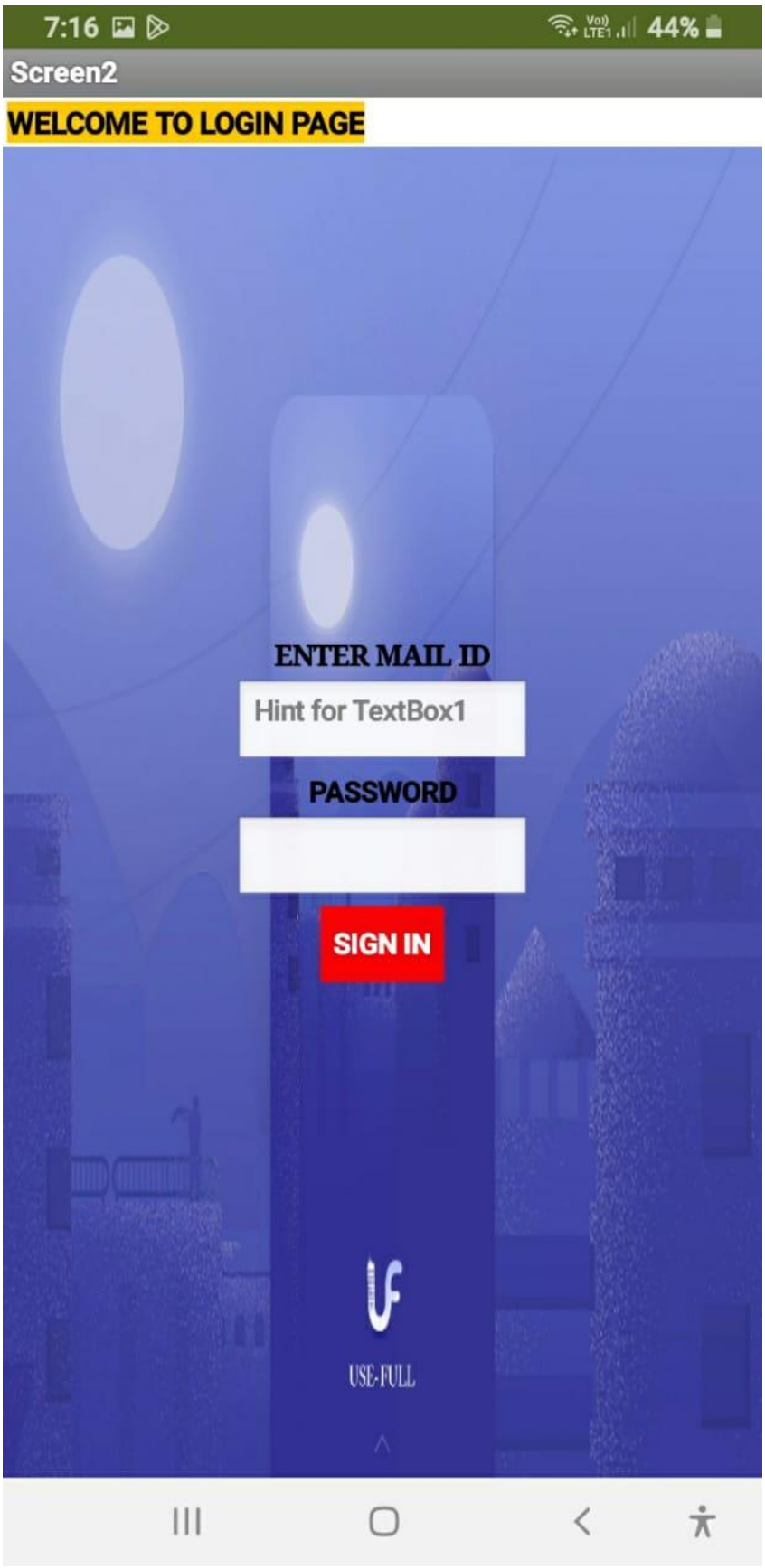


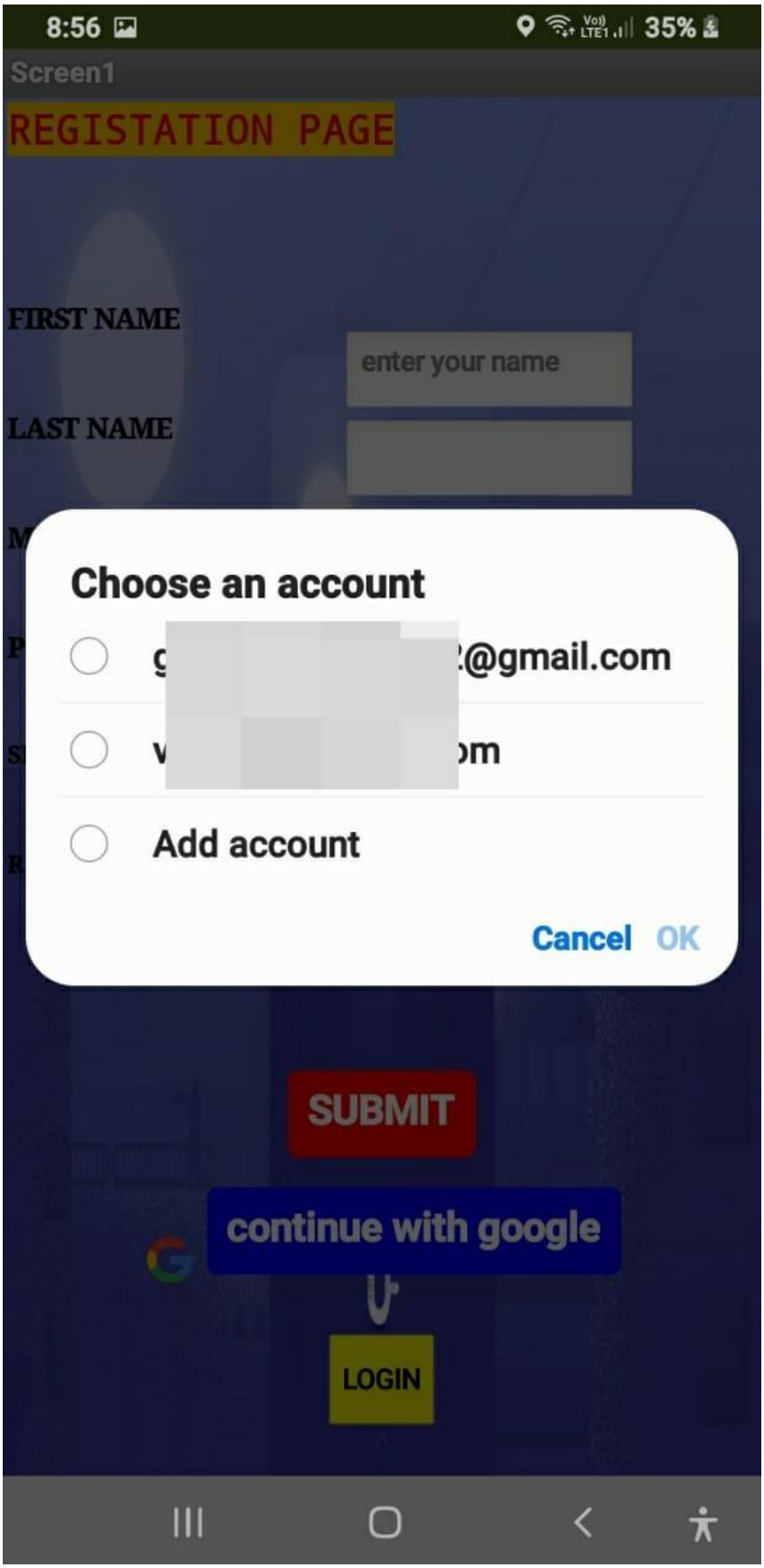
childsafety



text {"temp":26,"lat":16.781914061996645,"lon":81.13046253730693,"name":"Jimmy"}


7:15
44%
Screen1
REGISTATION PAGE
FIRST NAME
enter your name
LAST NAME
MAIL ID
enter valid id
PHONE NUMBER
enter your mobile nu
SET YOUR PASSWORD
enter strong password
RE TYPE PASSWORD
re enter
SUBMIT
continue with google
LOGIN


7:16
44%
Screen2
WELCOME TO LOGIN PAGE
ENTER MAIL ID
Hint for TextBox1
PASSWORD
SIGN IN
USE-FULL


8:56
35%
Screen1
REGISTATION PAGE
FIRST NAME
enter your name
LAST NAME
Choose an account
@gmail.com
om
Add account
Cancel
OK
SUBMIT
continue with google
LOGIN

8:58 35%

Screen3

MONITOR PAGE

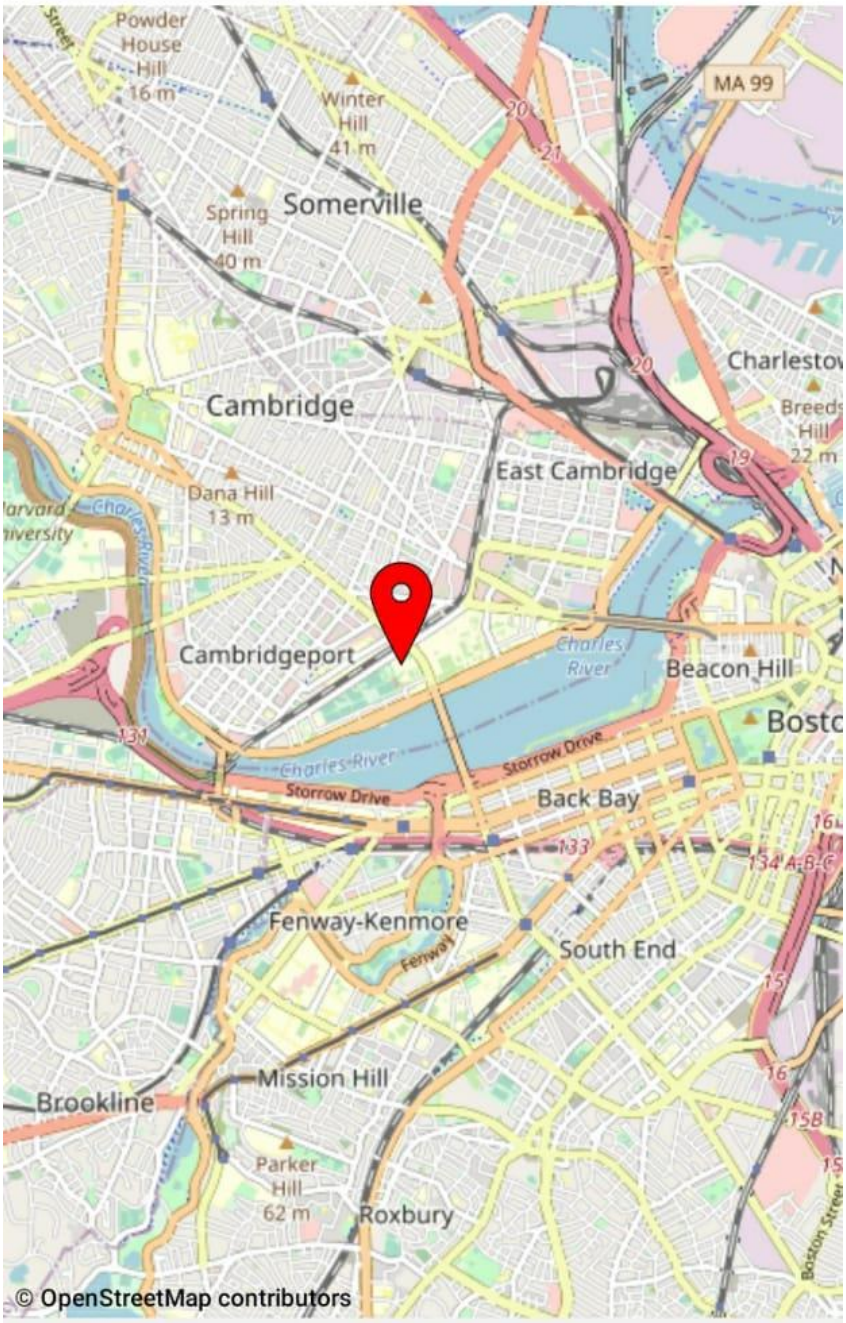
24	

CHILD TEMPERATURE CHLID LOCATION

8:58 35%

Screen4

LOCATED CHILD




Hassan
Bengaluru
Vellore
Mysuru
Salem
Erode
Coimbatore
Kumbak
Dharapu
Tamil Nadu
Kerala
Thanjavur
Dindigul
Kochi
Madurai
Sivakasi
Kollam
Thoothukudi
Thiruvananthapuram
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CHAPTER 10
ADVANTAGES & DISADVANTAGES

ADVANTAGES

The child safety wearable system acts as a smart device. **Child's surroundings can be located with the help of accurate and precise real-time location**. Surrounding environment temperature, SOS light along with Distress buzzers are provided in this system . This helps in locating their child

DISADVANTAGES

The major disadvantage for this important band is that **it employs Bluetooth as the way of communication in between parent and the child**. Therefore, the wearable device implemented in this paper will be effectively communicating the parent via SMS through GSM . This ensures that there is a secure communication link

CHAPTER 11
CONCLUSION

This research demonstrates Smart IoT device for child safety and tracking helping the parents to locate and monitor their children. If any abnormal values are read by the sensor then an SMS is sent to the parents mobile and an MMS indicating an image captured by the serial camera is also sent. The future scope of the work is to implement the IoT device which ensures the complete solution for child safety problems.

CHAPTER 12
FUTURE SCOPE

This project is far from complete and there is a lot of room for improvement. Some of the improvements that can be made to this project are as follows:

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.

APPENDIX

scipt.py - C:\Users\GOKUL\Downloads\scipt.py (3.7.4)

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```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "af19wm"
deviceType = "12345678"
deviceId = "12345678"
authMethod = "token"
authToken = "12345678"
try:
 deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method":authMethod, "auth-token": authToken}
 deviceCli = ibmiotf.device.Client(deviceOptions)
#.....................................................
except Exception as e:
 print("Caught exception connecting device: %s" % str(e))
 sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type
#"greeting" 10 times
print("power on ")
print("checking connection to waston iot...")
time.sleep(2)
deviceCli.connect()
print("dear user ... welcome to IBM-IOT ")
print("i can provide your children live location and temperature ")
print()
name=str(input("enter your child name:"))
while True:


 temperature=random.randint(20,35)#random temperature for your child
 latitude=random.uniform(16.781377,16.78643)#random latitude for your child
 longitude=random.uniform(81.129113,81.134014)#random longitude for your child
 a="Child inside the geofence"
 b=" Child outside the geofence"
 c="High temperature"
 d="Low temperature"
 x={'your_child_Zone':a}
 y={'your_child_Zone':b}
 z={'temp_condition':c}
 w={'temp_condition':d}
 time.sleep(3)


 data = { 'temp' : temperature, 'lat': latitude,'lon':longitude,'name':name }
 #print data
```

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```
 y={'your_child_Zone':b}
 z={'temp_condition':c}
 w={'temp_condition':d}
 time.sleep(3)


 data = { 'temp' : temperature, 'lat': latitude,'lon':longitude,'name':name }
 #print data
 def myOnPublishCallback():
  print ("Published Temperature = %s C" % temperature, "latitude = %s %%" % latitude,
"longitude = %s %%" % longitude, "to IBM Watson")
 print("\n")
 success = deviceCli.publishEvent("IoTSensorgpsdata", "json", data, qos=0,
on_publish=myOnPublishCallback)
 if latitude>=16.78200 and latitude<=16.786000 and longitude >=81.130000 and longitude<=81.133000:

    deviceCli.publishEvent("IoTSensorgpsdata","json",data=x,qos=0,on_publish=myOnPublishCallback)

    print(x)
    print("\n")
else:

 deviceCli.publishEvent("IoTSensorgpsdata","json",data=y,qos=0,on_publish=myOnPublishCallback)
 print(y)
 print("\n")

if (temperature>35):

  deviceCli.publishEvent("IoTSensorgpsdata","json",data=z,qos=0,on_publish=myOnPublishCallback)
  print(c)
  print("\n")

else:

 deviceCli.publishEvent("IoTSensorgpsdata","json",data=w,qos=0,on_publish=myOnPublishCallback)
 print(d)
 print("\n")


if not success:
  print("Not connected to IoTF")
  print("\n")
  time.sleep(0)
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

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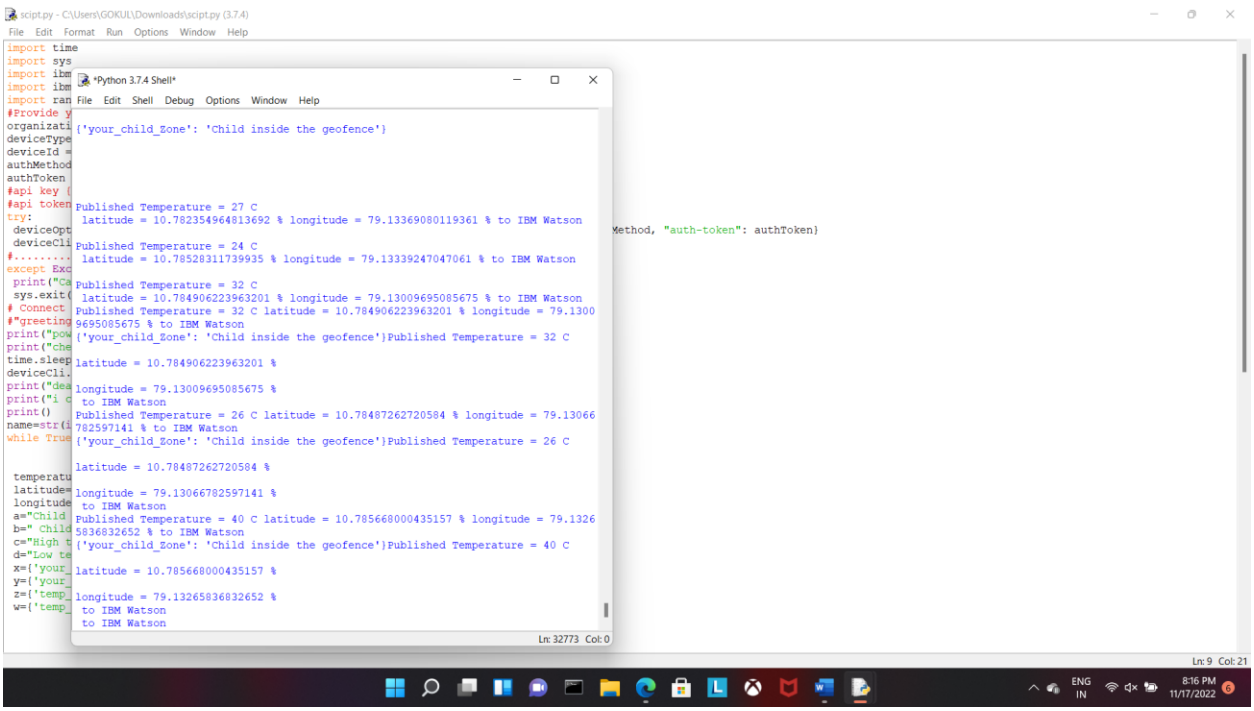

GITHUB:[IBM-EPBL/IBM-Project-2326-1658469793: IoT Based Safety Gadget for Child Safety Monitoring & Notification (github.com)](https://github.com/IBM-EPBL/IBM-Project-2326-1658469793)

PROJECT DEMO VIDEO LINK:
[IBM-child_saftey.mp4 - Google Drive]

APP LINK:[child_safety.apk - Google Drive]