PROJECT PLANNING PHASE SPRINT DELIVERY PLAN

Date	15 September 2022
Team ID	PNT2022TMID07810
Project Name	IOT Based safety Gadget for child safety
	monitoring and notification
Maximum Marks	4 Marks

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Project Planning Phase:		
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This paper mainly focuses on child safety solutions which		
Contain two major devices namely Smart gadg	et and BLE	
Listener device. The system also includes an Android app		
Namely Parental App which will be developed	and installed on	
Parental phone.		
This paper consists of 6 modules as follows:		
1) Live Location Tracking: Safety gadget co	ontains a GPS	
Module which will fetch the current location a	nd sends it to the	

Microcontroller for required processing, the safety gadget is

Also installed with the GSM module to respond for location

Request sent via SMS from parental phone. The system is

Connected to cloud via Wi-Fi technology and hence the GPS

Location is updated to the cloud at regular intervals or on

Request, whenever parent want to monitor the location of safety

Device then parental app can be used which fetches all the data

From the updated cloud and also display the current/live

Location of the safety gadget.

2) Panic Alert System: The gadget is equipped with panic

Alert system feature which mainly consist of a button that is

Triggered only during certain abnormal/panic situations, this

Button is programmed in such a way that, once it is triggered

Then multiple alerts in various forms occurs within few seconds

Of time, sivis and also prione call is triggered to the parental
Phone from the safety gadget GSM module to the parental
Phone, which consists of current location of gadget fetched
From its GPS and a pre-installed panic message seeking for
Help. An alert notification on parental app is triggered via Wi-
Fi on safety gadget communicating to cloud where parental app
Receives the information.
3) Stay Connected Feature: This feature is to communicate
Between safety gadget (GSM module) and parental phone
Always connected irrespective of the situation, safety gadget can
Make a phone call anytime to parental phone and vice-versa.
Safety gadget which will be displayed on its screen.
4) Health Monitoring System: The gadget consists of heart

Beat and temperature sensor which is used to monitor the General health condition of child. Any abnormalities being Detected in the health monitoring parameters by the safety Gadget then an immediate alert is sent on the parental app via Wi-Fi. Also, displays on parental app. 5) Gadget Plug and Unplug Monitoring: This feature is to Keep monitoring if the safety gadget is plugged or not by Monitoring the contact switch, necessary alerts are provided on Parental app whenever the device is unplugged.

6) Boundary Monitoring System: Binding gadget is the

Device which is used to satisfy this feature along with safety

Gadget and parental phone. This gadget is used to monitor safety

Gadget within a bounded area using wireless technology. Once The safety gadget is moving out of the threshold distance from The BLE listener device then an alert is provided on device Itself, which will be used by parent/guardian. This feature of Binding gadget is designed to work independently without Phone network signal/internet so that safety gadget can even be Under monitoring when it reaches remote areas where Communication signals are not reachable like forest.

A. Software Specification

The Arduino Software (IDE) which is an open-source and

Makes it easy to write the code as well as to upload in to the

Board. It runs on the Linux, Mac, IOS and Windows. The

Programs are written in Java, based on the Processing and other

Open-source software. This software makes the interfacing with

Arduino-Uno much more reliable. The primary reason for using

The GS shield as the mode of communication over Wi-Fi and

Bluetooth was that this gadget was aimed at being accessible to

Any smartphone user. Also, to make the user-friendly as possible.

Applications for the Android operating system are programmed using the SDK Android software development kit and Java programming language that also may be used with C or C++.

The Android Studio is the official programming environment that allows developers to build Android apps. The idea behind the Android app has been derived from having an

automated bot to respond to text message responses from the user. It will provide the user with pre-defined response options at just the click of a button. The user doesn't need to memorize

The specific keywords to send. Also, the both will be pre-programmed to present the user with a set of pre-defined keyword options such as "DEVICE LOCATION".



Project Meeting Planning Sprint Schedule

This side is 100% editable. Adapt it to your needs and capture your audience's attention.







Scrum Master

Facilitator

- Scheduled meeting space
 Publish agenda
 Check calendors for company events
 Text Here
 Text Here

Product Owner

Sets the goal and priority

- · Ensure candidates backlog items are
- Ensure candidates backog items are ready according to teams definition
 Ensure team skills and capabilities are aligned with backlag item needs
 Text Here
 Text Here

Development Team

Plan the work and time it will take

- . Update teams work status and refer to it during meetings
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