PROJECT OBJECTIVES

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Team ID	PNT2022TMID43259
Project Name	Project - IoT Based Safety Gadget for
	Child Safety Monitoring and
	Notification

PROJECT OBJECTIVES

The Objectives as,

- Enable tracking of the child's location and capturing of data remotely such as where the child location, distance etc,
- 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.
- Develop a prototype of IOT wearable smart band connected to parent's mobile apps so that they can monitor the actual of children at anytime and anyplace.

By the end of this project : Gain

knowledge of Watson IoT Platform.

- Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- Gain knowledge on Cloudant DB
- Gain Knowledge of geofence

• Creating a Web Application through which the user interacts with the device.

Project Flow:

- The GPS coordinates of the child will be sent to the IBM IoT platform
- Location can be viewed in the Web Application
- A parent can create a geofence in the web application
- The web application will check if the child is inside or outside the geofence Notifies the parents if the child goes out of the geofence

To accomplish this, we have to complete all the activities and tasks listed below:

- - o Create a device & configure the IBM IoT Platform
 - Create Node-RED service
 - Create a database in Cloudant DB to store location data
- Develop a web Application using Node-RED Service.
 - Develop the web application using Node-RED o Integrate the geofence & google map
- Develop a python script to publish the location details to the IBM IoT platform