

## Project Objectives

Date	28 October 2022
Team ID	PNT2022TMID43472
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

### By the end of this project, we will:

- 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 must complete all the activities and tasks listed below:

- Create and configure IBM Cloud Services
  - Create IBM Watson IoT Platform
  - 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
  - Integrate the geofence & google map
- Develop a python script to publish the location details to the IBM IoT platform