

# PROJECT OBJECTIVES

<b>PROJECT TITLE</b>	IoT based safety gadget for Child Safety Monitoring and Notification
<b>TEAM ID</b>	PNT2022TMID31679
<b>SUBMISSION DATE</b>	11 November 2022

## Project Objectives

**By the end of this project you 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 have to 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.