PROJECT OBJECTIVES

PROJECT TITLE	IoT based safety gadget for Child Safety Monitoring and Notification
TEAM ID	PNT2022TMID42919
SUBMISSION DATE	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.