Project Objectives

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| Date | 2 November 2022 |
| Team ID | PNT2022TMID43421 |
| 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 o Integrate the geofence & google map
* Develop a python script to publish the location details to the IBM IoT platform