**PROJECT OBJECTIVES**

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| --- | --- |
| Date | 18.11.2022 |
| Team ID | PNT2022TMID07784 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring & Notification |
| Maximum Marks | 2 Marks |

**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.