Project Objectives

**By the end of this project we will:**

**Learn more about the Watson IoT Platform.**

**The exchange of sensor data between IoT devices connected to the Watson IoT platform.**

**Learn more about Cloudant DB**

**Learn about geofencing**

**developing a web application that allows users to communicate with devices.**

**Project Flow:**

**The child's GPS coordinates will be forwarded to the IBM IoT platform.**

**The Web Application allows you to view the location.**

**In the web application, a parent can create a geofence.**

**If the child is within or outside of the geofence, the web application will determine that.**

**If the youngster leaves the geofence, notify the parents.**

**To accomplish this, we have to complete all the activities and tasks listed below:**

* + Establish and set up IBM Cloud Services
  + Create the IBM Watson IoT Platform, then create a device and set it up on the platform.
  + Establish a Node-RED service.In Cloudant DB, create a database to house location information.

Create a web application using the Node-RED service.

* + Utilize Node-RED to create the web application.
  + Integrate Google Map with the Geofence

Create a Python script to upload the location information to the IBM IoT platform.