

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

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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 garbage bin will be sent to the IBM IoT platform
- The location of the bins along with bin status can be viewed in the Web Application
- Notifies the admin if the bin value crosses the threshold value

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
- Develop a python script to publish the location details to the IBM IoT platform