**Project Objectives**

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| Date | October 2022 |
| Team ID | PNT2022TMID38320 |
| Project Name | Smart Waste Management System For Metropolitan Cities |

**By the end of this project:**

* 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