**Objectives**

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| Team ID | PNT2022TMID34358PNT2022TMID34358 |
| Project Name | Smart Waste Management for Metropolitan  Cities |

**The objectives of this project is as follows:**

* To ensure the protection of the environment through effective waste management
* To protect the health and wellbeing of people by providing an affordable waste collection service.
* Ensure separation at source in all metropolitan and local municipalities.
* Increase thermal treatment and conversion of waste to energy.
* Preventing pollution and ecological degradation.
* It uses green energy.

**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