PROBLEM STATEMENT

ON

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

TEAM ID: PNT2022TMID24735

# TEAM MEMBERS:

# VISHALSURYA S K

# DHANUSH M

# PRAKASH RAJ M

# BHUVANESHWARAN P

**PROBLEM STATEMENT:**

Detecting the level of garbage and informing the garbage collectors through a proper communication channel about the garbage level and alerts them to collect it at a specified time efficiently.

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| Who does the problem affect? | To the common people around the garbage bins. |
| What are the boundaries of the problem? | Older people, children and patients with lung infections. |
| What is the issue? | In metropolitan cities, the garbage bins are not emptied at a specific time after the bin reaches its threshold it causes over flowing of garbage and in turn causes pollution. |
| When does the issue occur? | If the authority is not properly informed with the time when to collect the garbage. |
| Where does the issue occur? | In Metropolitan cities, when the communication channel is not properly established between the bins and the cloud service. |
| Why is it important that we fix the problem? | To avoid health issues, to keep the environment clean, and to avoid the diseases which might be evolve in future. |
| What solution to solve this issue? | By establishing proper, efficient, effective communication channel to track the garbage level and collecting it on time. |
| What methodology used to solve the issue? | Methodology includes using python for backend programming, Node RED, appropriate sensors and using cloud service for storing information. |