Project Design Phase-1
Proposed Solution

Date	20/09/2022
Team ID	IBM-Project-39181-1660399380
ProjectName	Smart waste management system for metropolitan cities - IOT
MaximumMarks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	➢ Ravage and waste can cause environmental pollution. ➢ Rotting garbage is the cause to produce harmful gases in the air and cause breathing problem to people. ➢ Due to improper waste disposal, we may face several problems like unpleasant odour and severe health issues.
2.	Idea / Solution description	➢ To solve this problem of waste disposal , we can design a smart garbage bin with inbuilt sensors and IOT devices such like Arduino UNO , Raspberry pi, etc…. ➢ Garbage level and location intimation mechanism . ➢ AI Recycling Robots.
3.	Novelty / Uniqueness	➢ Identify potential waste streams. ➢ Create a waste management-focused community outreach plane.
4.	Social Impact / Customer Satisfaction	➢ Neighbourhood of landfills to communities, breeding of pests and loss in property values. ➢ The IOT solution uses the data and intimates the information to the local area of management department when it reaches the initial boundary line .
5.	Business Model (Revenue Model)	➢ It generates revenue through the provision of various waste management and disposal services. ➢ Recycling solutions to residential , commercial , industrial, and municipal clients.
6.	Scalability of the Solution	➢ Installing separate bins for collecting recyclable and non-recyclable wastes. ➢ Recycling not only save energy but also prevent the material from going to landfills & Incineration and provides raw materials for new products.