SPRINT DELIVERY 3:

- **FUNCTIONAL REQUIREMENTS**
- **CUSTOMER JOURNEY**
- **DATA FLOW DIAGRAM**
- **TECHNOLOGY ARCHITECTURE**

Smart Waste Management System for Metropolitan Cities

IBM PROJECT ID : **IBM-Project-27774-1660065289**

IBM TEAM ID: PNT2022TMID28453

Functional Requirements

Objectives :

The main objective of the smart waste management system is to develop a new type of waste management in government and indvidial waste treatement industries to gather waste material for the purpose of recyling and desposol of human waste products ,elctronics,medical to be disposed safely with usage of multiple modern developed web based user mangement and IOT devices based on the garbage bin

End result :

The garbage bin consist of IOT devices at the top and bottom of the garbage bin which helps to analyze the wieght and the amount of space in the dusbin which helps the worker and the waste management to accquire date of waste products dropped by people at individual loaction inoder to maintain an collect and cover an vast area of the city with the report givin by the garbage bins .

Focus :

The customer or the person who proceds to drop and waste in the dustbin must notify the type of waste was to dropped , The method will helps prevention of liquid matter which to dropped which may cause damage to the IOT Devices in bottom , SInce the specification known only to the Smart city management team , they must advice the worker to conduct an journey to analyze how people dropp their waste based on their activites which help the worker to advice the customer to aware of the device inside the dustbin.

Essentiality :

The IOT device must send data to the Smart city waste management team inorder to check the level of the dustin space and the area location where it currently moves , it must send indication level time to time for filling of the waste products ,the localized dustbin may vary from small dustbin to bigger truck as the IOT devices may eligible for both of them

Types :

The dustbin distrubuted in all areas of region of the city and , the dustbin will minimize the amount taken to manage by the customer , it varies from individual dustbin to Business development area manageble area dustbin where raw materials calculated and disposed easily and safely and , service will be in both customer and to medicals units in allowance of the customer . The dustbin manages all types of units and waste products which the IOT helps the manage the space and indication of another in case of full of the one's dustbin which customer allocate another dustbin to provide service to area within the fraction of seconds.

Customer Journey Map

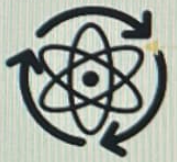
LARGE HOUSEHOLD APPLICATION

OTHERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
SMART WASTE MANAGEMENT SYSTEM	CONSUMER DROPS OFFICE AND IT WASTE	TRANSPORT TO RECYCLING PLANT	REPAIR,REFUR BISH	5% TSDF- AFTER RECYCLING AS PER GOVT.NORMS	COMODITY MARKET

IT COMMUNICATION TECHNOLOGY

CONSUMER ELECTRONICS



RECOVERY OF MENTALS

TRANSPORT TO RECYCLING PLANT

CONSUMER DROPS OFFICE AND IT WASTE

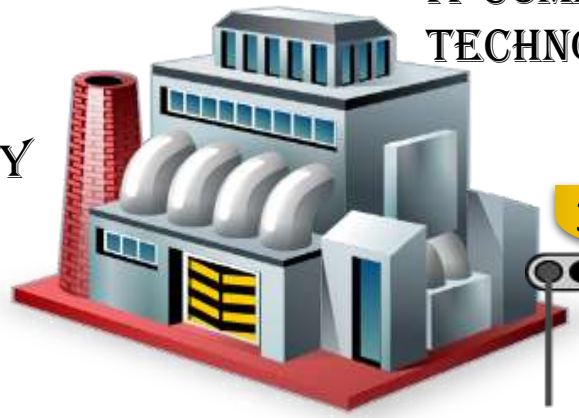
CONSUMER ELECTRONICS

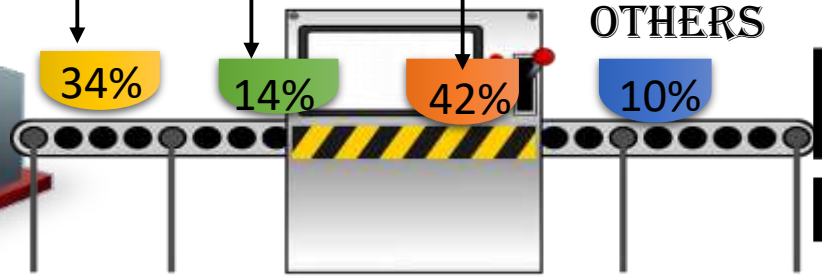
IT COMMUNICATION TECHNOLOGY

LARGE HOUSEHOULD APPLIANCES

OTHERS

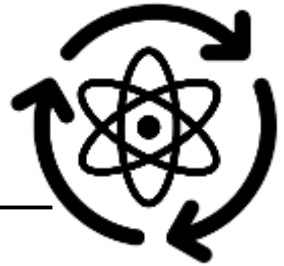
COMODITY MARKET





5% TSDF-AFTER RECYCLING AS PER GOVT.NORMS

REPAIR,REFURBISH



RECOVERY OF METALS

DESKTOP APPLICATION FOR JUDO MATCH PROCESSING AND SYNCHRONIZATION

CLOUD STORAGE AND PROCESSING

MOBILE APPLICATION FOR RECORDING JUDO MATCH DATA

INTERNET

WEB SERVER STORAGE