PROJECT DESIGN PHASE – I

SOLUTION ARCHITECTURE

Date	11 May 2023
Team ID	NM2023TMID12625
Project Name	Smartcity Waste Management System with connected trashcans

SOLUTION ARCHITECTURE

DESIGN

To segregate the different types of wastes by using modern technologies and giving notifications to the respective sectors while the waste is filled 45% and 75% of the bin by using trash talker.

USABLE

Easy to segregate.
It helps in reducing environmental pollution.
Saves dumping area spaces.
Usage of sector alarm prevents the overflow of wastes.

RELIABLE

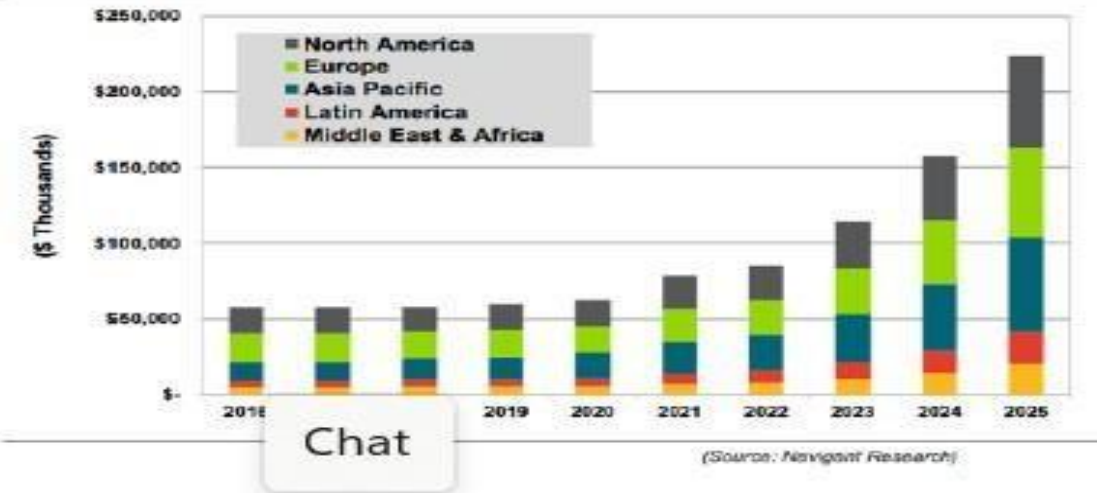
By implementing this we can make our environment clean and control the spreading of infectious diseases from garbage.

FUNCTIONAL ELEMENTS

Our aim is to separate Organic waste, Paper waste, Plastic waste, Metal waste. In the separate bins Raspberry Pi camera with 12MP HQ and resolution 1080p.

GRAPH

Chart 1 *Annual Smart Waste Collection Technology Revenue by Region, World Markets: 2016-2025*



Chat

(Source: Navigant Research)