PROPOSED SOLUTION:

EXECUTIVE SUMMARY:

Checking assortment and removal of trash squander is considered as one of the main points of contention in the evolving modern society since its lack of maintenance will leverage negative ecological effects. A dreary technique is the traditional method used for physically controlling and gathering the waste, since it requires a critical human work and assets. An IOT based trash checking system will reduce the work of human.

PROBLEM STATEMENT:

Develop a smart waste management system using internet of things that gives the alert signal to manage the garbage bin.

PROPOSED SOLUTION:

- The proposed system should be able to automated the waste from the garbage bin and management of overall collection process using internet of things.
- Whenever the garbage bin is filled it send details about the bin to the authorized person
- The received signal indicate the smart waste monitoring system is doing well.

NOVELTY / UNIQUENESS:

This project is established in prototype model for check our project is going to well or not. We fix a buzzer for intimating the public to clean the dust bin and also send a signal to authorized person to clean the dustbin.

SOCIAL IMPACTS/CUSTOMER SATISFACTION:

- Waste in different forms such as solid waste, gaseous waste and liquid waste increases due to population increase, urbanization, and industrialization and affect the globe. Waste management involves activities such as reuse,

recycling and reduces waste generation and other strategies to combat the effect of waste generation due to increasing population and industrialization.

- Monitoring is one of the key functions of waste management, as it is needed to address the issues faced by waste management, which includes waste generation, waste collection, transportation of waste, waste treatment and waste disposal processes.

BUSINESS MODEL:

- **Solid Waste**, comprising the Company's waste collection, transfer, recycling and resource recovery, and disposal services, which are operated and managed locally by the Company's various subsidiaries, which focus on distinct geographic areas; and
- **Corporate and Other**, comprising the Company's other activities, including its development and operation of landfill gas-to-energy facilities in the US, and its recycling brokerage services, as well as various corporate functions.

SCALABILITY OF SOLUTION:

- Each sensor has its own independent area of responsibility the way system is designing each sensor is responsible for specific area of waste bin and there is no overlap between area of various sensor.
- The chosen ultrasonic sensor comes in multiple version of beam range and width. These model provide the basic functionalities and logic of measurement.