**Smart waste management system**

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**Abstract :**

On process of getting civilized and with clean India concepts,we still have unmanaged streets and places with overflowing garbage wastes.This causes many diseases and disturbances to the people who live around it. My project deals with the concept of waste cleaning and managing the public dustbins around our areas. The Smart waste management system thought is an improvement of normal dustbin by improving it to be smart dustbins using sensors.Through this sensor fixed dustbins,we can detect the amount of wastage in it and can clean them accordingly.

The idea of this project is to fix sensors at the top(near the top)of the dustbins ,and once they reach the fixed sensors height ,sensors start sensing and sends command to arduino ,thus displaying ‘FULL’ in the LCD board fixed at a distance from the dustbin.Also,an alarm is set to inform the nearby workers to empty up the trash.

Through this,workers can clean accordingly and prevent the area from unwanted overflowing garbage waste,thus leading to clean environment.

**Components used :**

\*Ultrasonic sensors

\*Arduino board

\*Liquid crystal display

\*An alarm

**Block diagram :**

**Arduino board**

**LCD**

Ultrasonic sensors

**An alarm**