

# SMART WASTE MANAGEMENT SYSTEM FOR IOT Garbage Waste Monitoring System

## Presentation Outline

- Introduction
- Problem in Society
- Motive of Project
- Block diagram
- Methodology(Hardware/software)
- Application
- Conclusions

## Abstract :

- This project IOT Garbage Monitoring system is a very innovative system which will help to keep the cities clean.
- This system monitors the garbage bins and informs about the level of garbage collected in the garbage bins via a web page.
- A web page is built to show the status to the user monitoring it.
- The web page gives a graphical view of the garbage bins and highlights the garbage collected in color in order to show the level of garbage collected.
- The LCD screen shows the status of the garbage level.

## MOTIVATION OF THE PROJECT

## MOTIVE OF THIS PROJECT



IOT BASED BIN



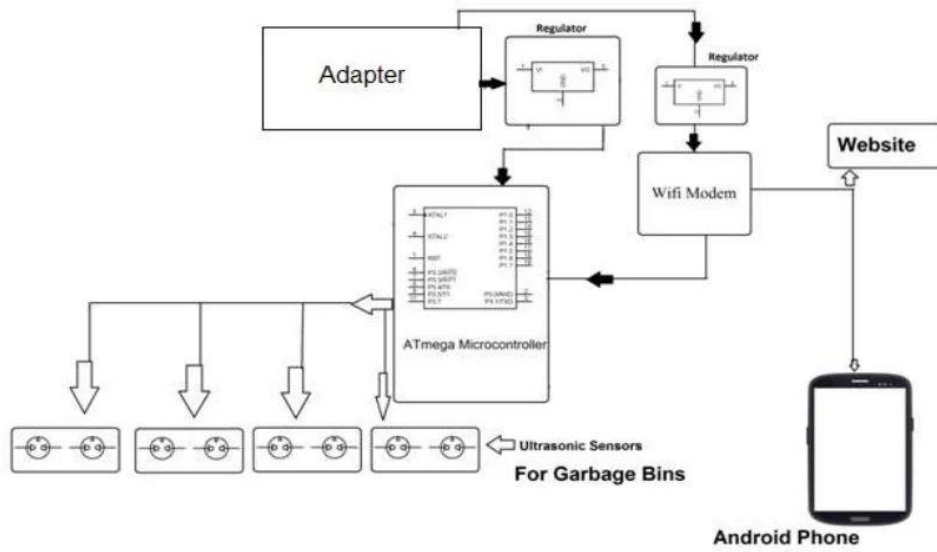
BASE STATION



DUSTBIN LURRY

## •BLOCK DIAGRAM

## Block Diagram



## Main Problem



**OVER FLOWING OF BINS**

### Hardware / Software

#### Hardware Used

AVR family microcontroller  
Wi-Fi Modem  
LED's  
LCD Display  
12V transformer  
Ultrasonic sensors  
Resistors  
Capacitors  
Diodes

#### Software

- Avr studio
- MC Programming Language : Embedded C

➤ Arduino software

### Application

- Empowered Swach Bharat Mission
- Reduce Environmental Pollution
- Real Time Based cleaning of cities
- To make our system transparent between Municipal corporation, workers and public

### Summary of use case....

- The novel cloud-based system for waste collection in smart cities.
- Integration with modern ITS and IoT systems.
- Development of applications for city administrations, municipal staff.