



KONGU ENGINEERING COLLEGE

PERUNDURAI ERODE-638060

DEPARTMENT NAME

KEC IDEATHON

SMART DUST BIN



Transform Yourself

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In association with:



Technology Readiness Level: TRL --

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SYNOPSIS

- INTRODUCTION
- OBJECTIVE
- PROPOSED SYSTEM
- FLOW CHART
- COMPONENTS
- ADVANTAGES
- EXISTING SYSTEM
- CONCLUSION

Estd : 1984

INTRODUCTION

- Currently almost a huge amount of earth is filled with garbage and is a big problem
- This can lead to many environmental problems
- Endangers life of animals also
- Leads to atmospheric pollution
- Spreads diseases
- All these problems are due to improper waste disposal

OBJECTIVE:

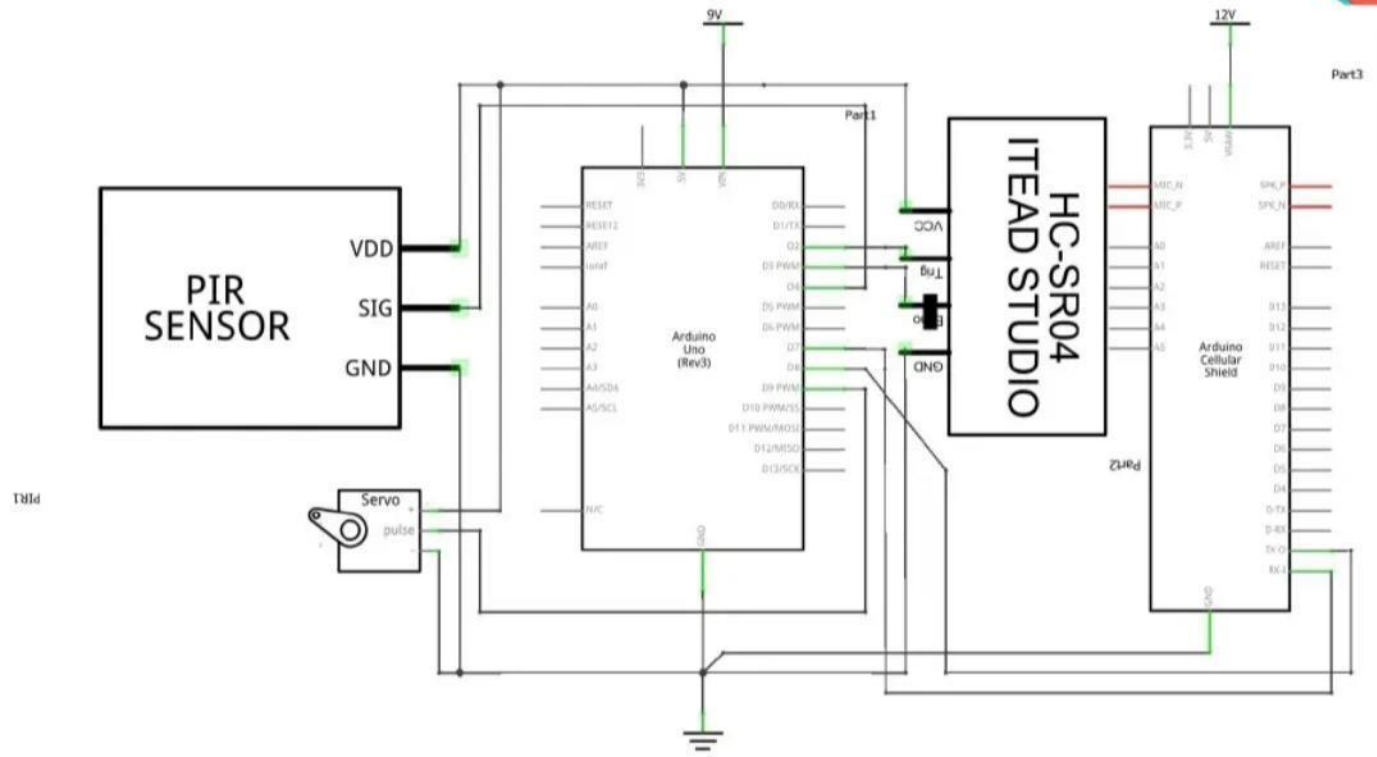
The main objective of the project is to design a smart dustbin which will help in keeping environment clean and also eco friendly....



PROPOSED SYSTEM

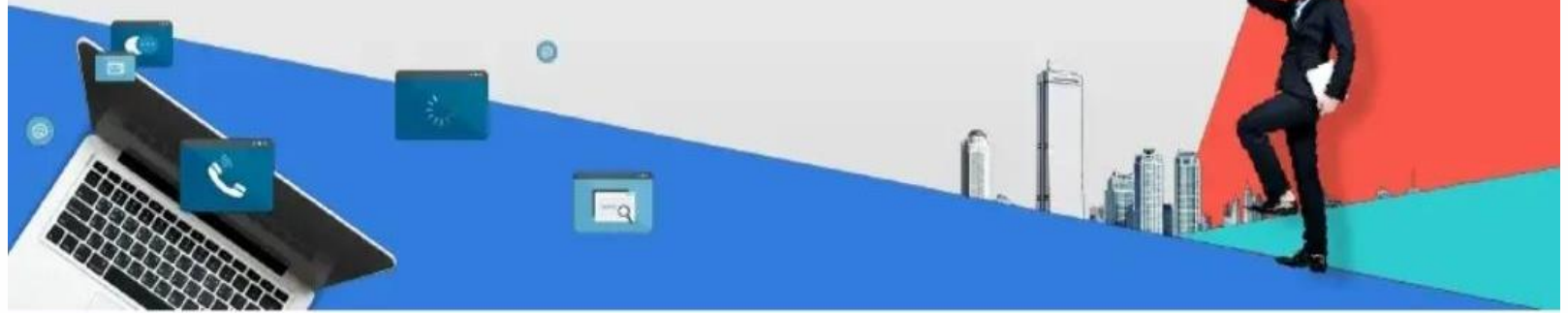
- It continuously monitors the level of garbage in the bin
- Bin opens automatically when a person approaches the bin
- Informs authorities when it needed to be cleared

CIRCUIT DIAGRAM



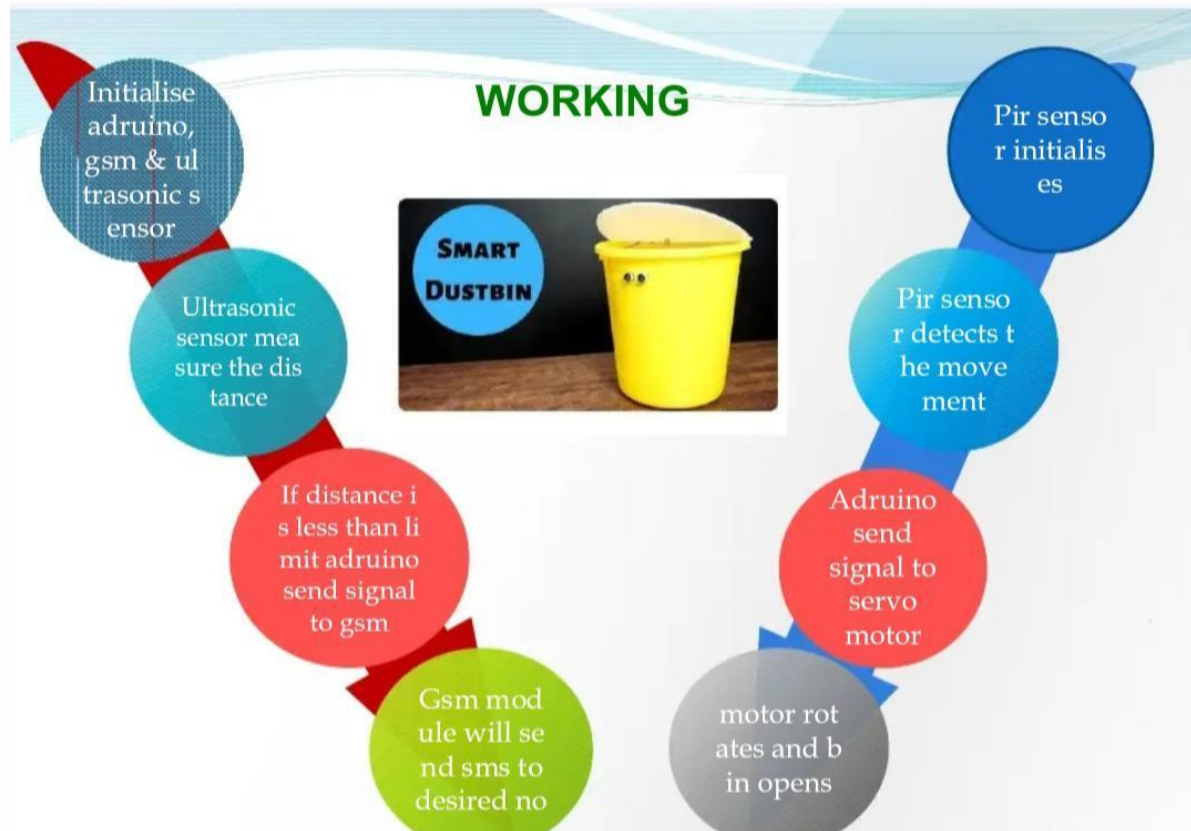
COMPONENTS

1. Arduino UNO
2. HC-SRO4 Ultrasonic Sensor Module
3. TowerPro SG90 Servo Motor
4. A small dustbin with hinged lid
5. 9V Power Supply



DRAWBACKS OF CURRENT SYSTEM

- Garbage overflow
- Unhealthy and untidy surroundings
- Cannot cope up with the amount of garbage



ADVANTAGES:



ADVATAGES

- * Helps in avoiding garbage overflow
- Low operating cost
- Low maintenance requirements

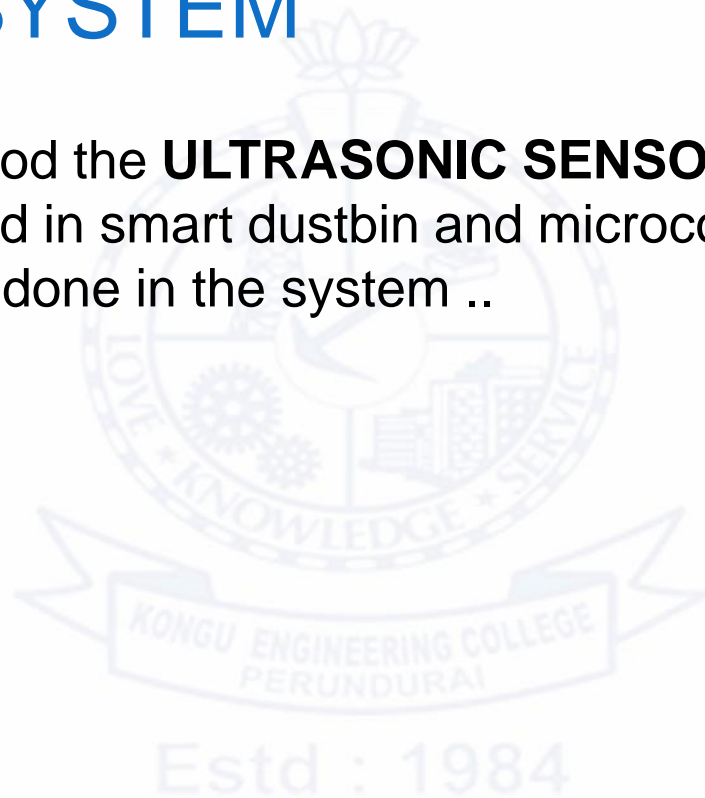


- Requires manual recharging of mobile network subscription
- Security measures depend on build quality and fixed installation of the bin
- Don't send an alert in case of fire

DISADVANTAGES

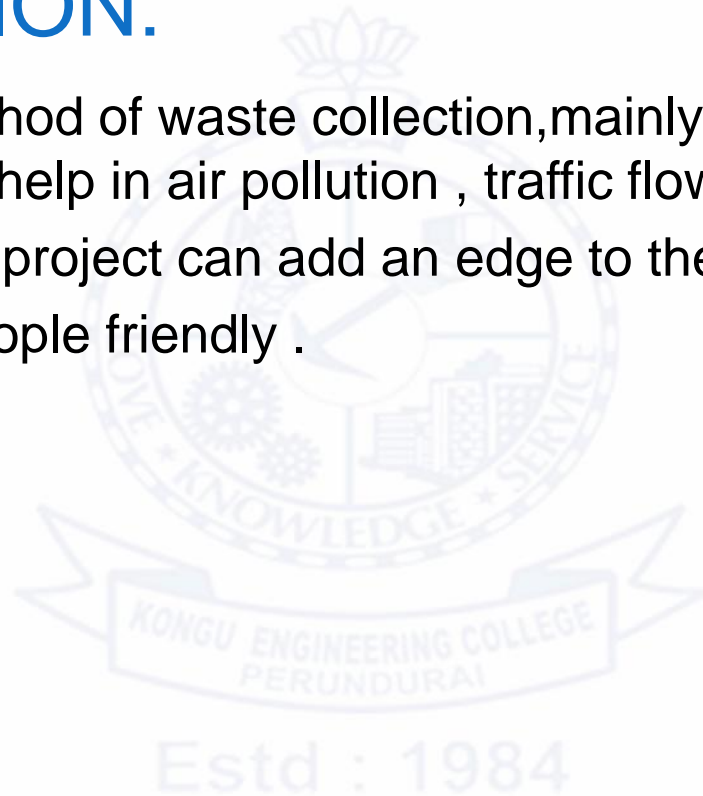
EXISTING SYSTEM

- In Existing method the **ULTRASONIC SENSOR** and **MOTION SENSOR** is used in smart dustbin and microcontroller programming is done in the system ..



CONCLUSION:

- By using this method of waste collection, mainly in urban areas become easier it help in air pollution , traffic flow ,time ,man power And money .This project can add an edge to the cities aiming to get smart and people friendly .



Thank You !!

