For more Project details visit:

http://www.projectsof8051.com/gsm-based-garbage-and-waste-collection-bins-overflow-indicator/

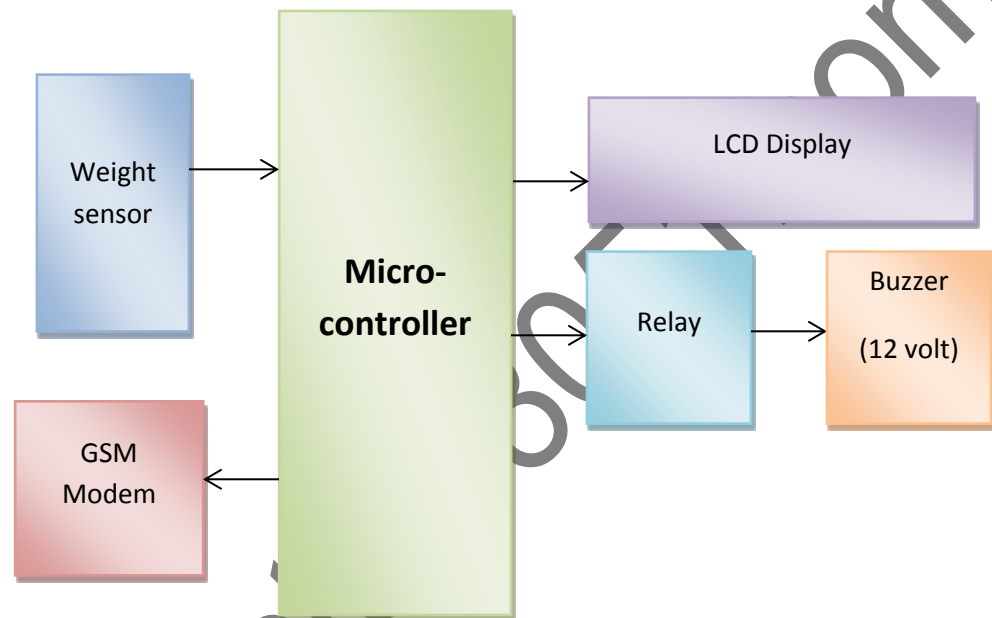| Code	Project Title
1631	GSM based Garbage and waste collection bins overflow indicator

Synopsis for

GSM based Garbage and waste collection bins

overflow indicator

INTRODUCTION

Weight sensor will be placed under the garbage bin or dustbin. When the weight reaches to the threshold value, a SMS will be sent to the respective Municipal / Government authority person. Then that person can send the collection vehicle to collect the full garbage bins or dustbins.

Block Diagram

Following are the important blocks of this system

1) Weight sensor: We have used Load cell as a Weight Sensor. Force applied on this load cell is transformed into equivalent electrical signal.

2) Microcontroller: This is the CPU (central processing unit) of our project. We are going to use a microcontroller of 8051 family. The various functions of microcontroller are like:

I. Reading input signals from weight sensor

II. Sending this data to LCD so that the person operating this project should understand the status.

III. When weight crosses threshold level, sends the data to GSM modem using serial port.

3) LCD: We have used 16×2 alphanumeric Liquid Crystal Display (LCD) which means it can display alphabets along with numbers on 2 lines each containing 16 characters.

4) Buzzer: We are going to use a buzzer to indicate the overweight condition.

Applications and Advantages:

1) To collect dustbins placed at public places in city.

2) This project can also be used in college / university campus

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