

### Ultrasonic sensor

Ultrasonic sensors generate high-frequency sound waves and evaluate the echo which is received back by the sensor, measuring the time interval between sending the signal and receiving the echo to determine the distance to an object.

### LCD

The LCD receives readings from the ultrasonic sensor via the microcontroller and displays it.

### ARDUINO

### GSM

It sends SMS to the municipal corporation server when the bin tends to overflow.

### WIFI MODULE

It consists of the router which will provide the internet facilities to the user for dumping the trash into the bin.

### GPS

To know the location of the bin precisely.

