



SMART DUSTBIN ESIOT

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IT-C



COMPONENTS USED

1 X ARDUINO UNO R3 COMPATIBLE BOARD WITH CABLE

1 X ULTRASONIC MODULE HC-SR04 DISTANCE MEASURING SENSOR

1 X TOWER PRO 9G MICRO SERVO MOTOR

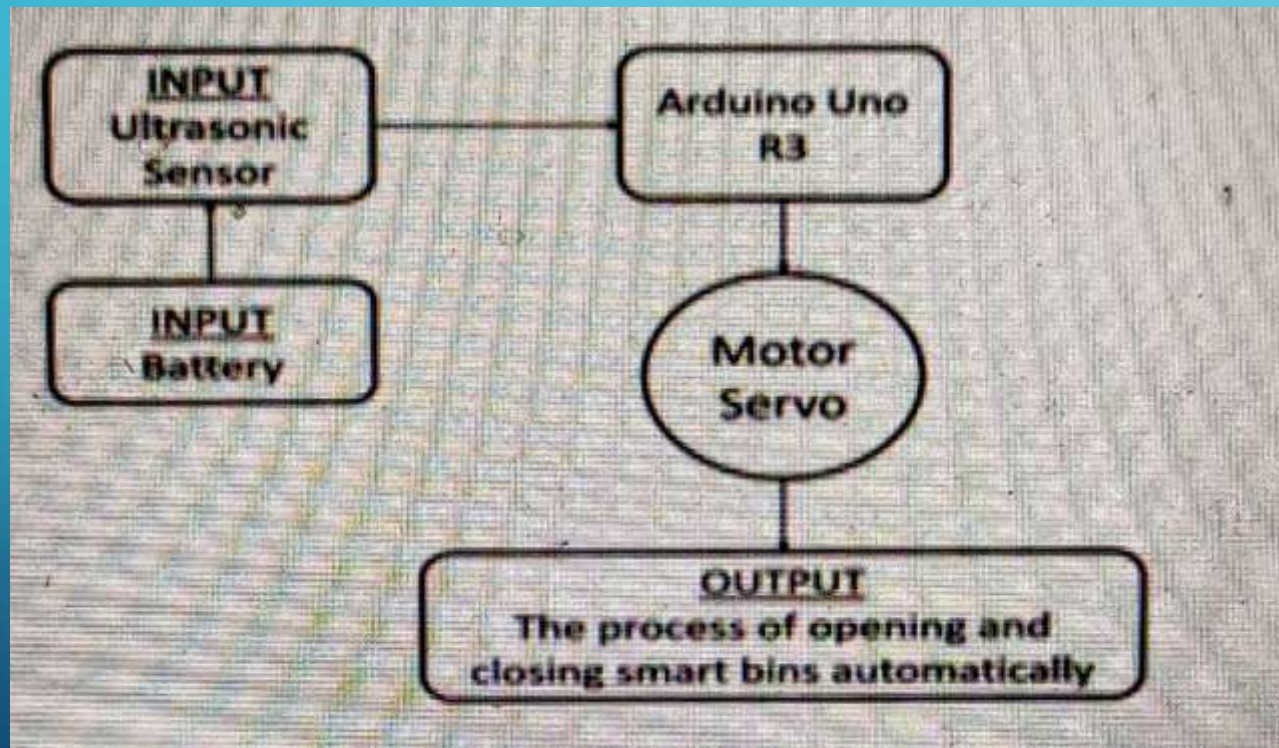
1 X HW BATTERY 9V WITH BARREL JACK CONNECTOR

1 X COMBO OF 3 TYPE JUMPER CABLES | F-F | F-M | M-M

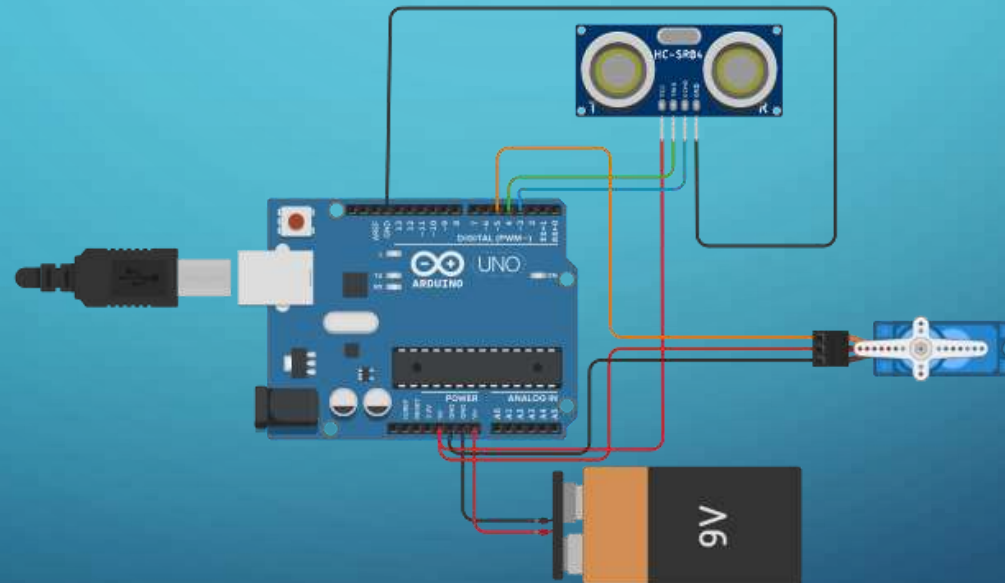
OBJECTIVE

- 1) **To collect dustbins placed at public places in city.**
- 2) Automatic open-close lid for ease of use
- 3) There is no contact touch between dustbin and Person so, prevention from germs and diseases.
- 4) Warning message indication when a Smart Trash Bin is nearly full. Also send SMS to garbage collector in particular area.

WORKING PRINCIPLE



CIRCUIT DIAGRAM



APPLICATIONS AND FUTURE SCOPE

- Smart dustbin **helps us to reduce the pollution.**
- Many times garbage dustbin is overflow and many animals like dog or -
-rat enters inside or near the dustbin.
- This creates a bad scene.
- Also some birds are also trying to take out garbage from dustbin.