#### Sprint-3

Smart Waste Management System for Metropolitan Cities

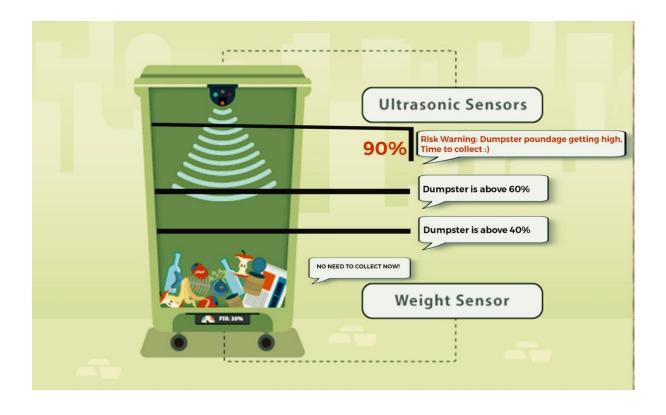
# DESIGN AN WEB PAGE:

**PARAMETERS ARE:** 

- 1. DISTANCE
  - 2. WEIGHT

## PROJECT MODEL:

The ultrasonic sonic sensor and the weight sensor which are used to calculate the garbage distance and the weight respectively.



There are certain assumptions assumed by us, They are

- O The length of the trash can is assumed to be 200 cm.
- o The maximum weight of the can is assumed to be 2 Kg.
- If the garbage distance goes more than 180cm i.e, more than 90% of the trash can, the sensor has to send to send an alert to the garbage collector.
- o If the alert is received, then the garbage collector has to come and collect the garbage.
- O The current weight and the garbage distance is to be updated Periodically. i.e, for 5 minutes.

## Webpage code:

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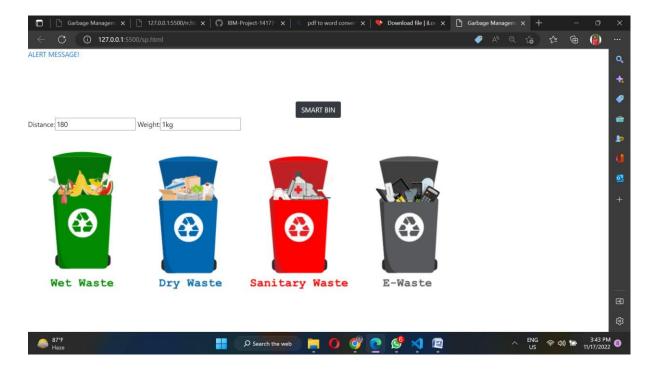
```
center>ca href="https://g.page/sairanengg?share"
type="button" class="btn btn-dark"ySMRT BINk/a>

Distance:cinput type="text" name="Distance" value="180">
Weight:cinput type="text" name="Weight" value="180">
Weight:cinput type="text" name="Weight" value="1kg">

c/forms

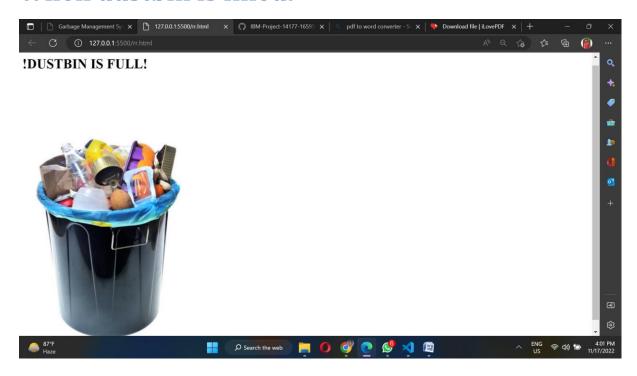
cdiv class="smartbin">
cdiv class=
```

#### **OUTPUT:**



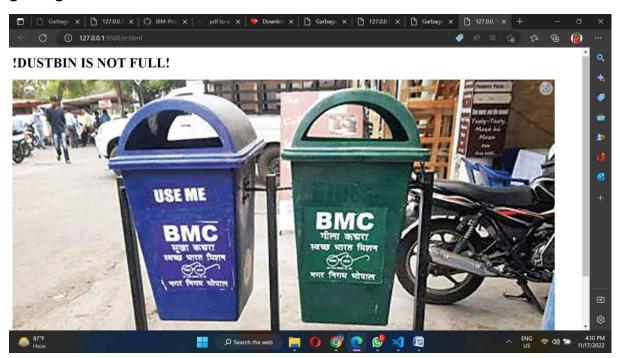
When you click the smartbin button it will show the exact location where the garbage can is filled.

### When dustbin is filled:



When the smartbin is filled the alert message will be sent to the garbage collector along with the exact location with its co-ordinates .

When the garbage is not filled upto 90% the smartbin is ready to collect the garbage.



We are sending the data of the garbage can with help of Node-red and IoT cloud which composed of the value equal to the weight of the garbage can and the distance of garbage present in the can.

