SPRINT 3 TEAM ID: PNT2022TMID20979

Smart Waste Management System For Metropolitan Cities

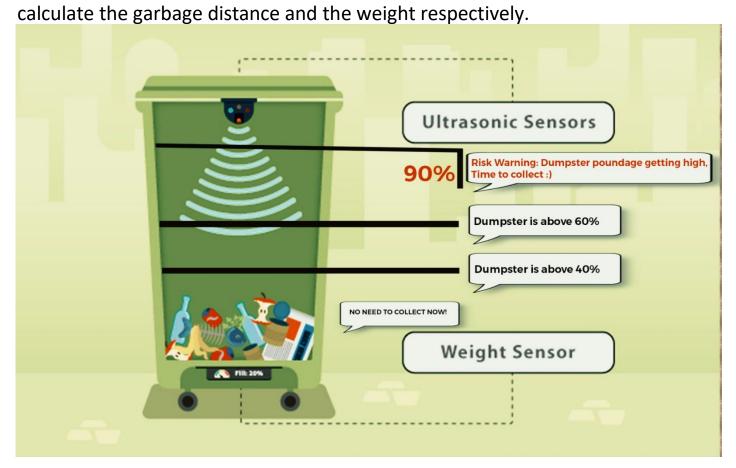
DESIGN AN WEB PAGE:

PARAMETERS ARE:

- 1. DISTANCE
- 2. WEIGHT

PROJECT MODEL:

The ultrasonic sonic sensor and the weight sensor which are used to



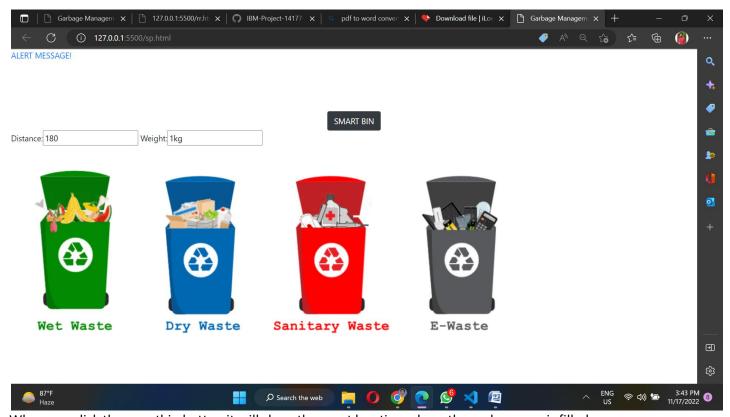
There are certain assumptions assumed by us, They are

- o The length of the trash can is assumed to be 200 cm.
- 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 is has to send to send an alert to the garbage collector.
- If the alert is received , then the garbage collector has to come and collect the garbage.
- The current weight and the garbage distance is to be updated periodically, i.e. for 5 minutes.

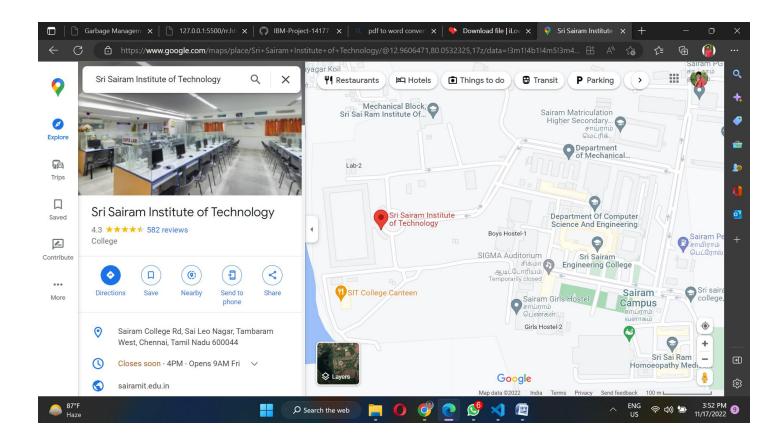
Webpage code:

```
padding-top: 100px;
zgOvR0iXCbMOv3Xipma34MD+dH/1f0784/i6cY/iJTOUOhcWr7x9JvoRxT2MZw1T" crossorigin="anonymous">
 citile>Garbage Management System</title>
clink rel="icon" type="image/x-icon" href="/Images/DUMPSTER.png">
clink href="style.css" rel="stylesheet" type="text/css" />
<script src="https://www.gstatic.com/firebasejs/8.10.1/firebase-app.js"></script>
    var firebaseConfig =
       projectId: "fir-test-923b4",
storageBucket: "fir-test-923b4.appspot.com",
       appId: "1:943542145393:web:9b5ec7593e6a3cbd7966d0",
kbody style="background-color:rgb(255, 255, 255);">
 <script src="map.js"></script>
       <div id="map"></div>
        <div id="alert msg"><a href="rr.html" target=" blank">ALERT MESSAGE!</a></div>
```

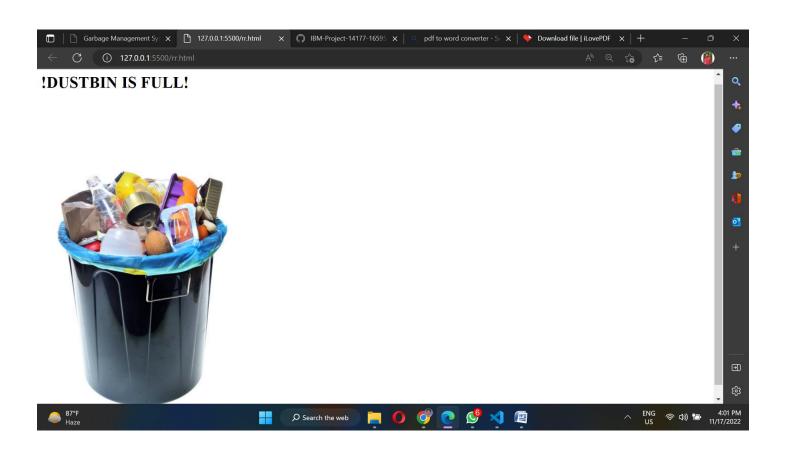
Output:



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



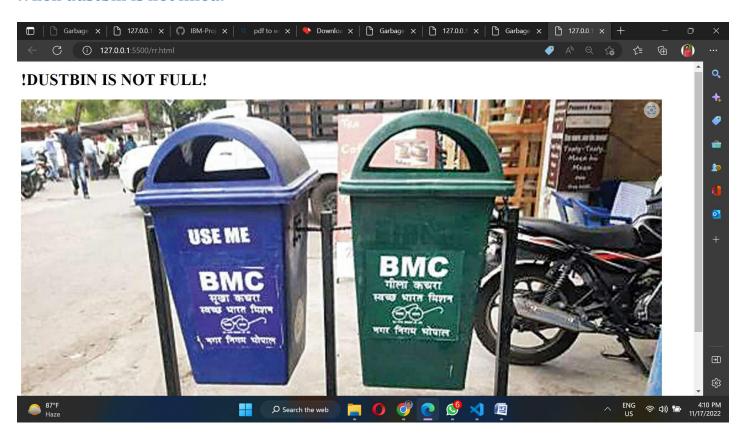
When dustbin is filled:



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.

When dustbin is not filled:



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.

