**SPRINT 3**

|  |  |
| --- | --- |
| Team ID | PNT2022TMID50177 |
| Project Name | Smart Waste Management System for Metropolitan Cities |

**DESIGN A WEB PAGE:**

**PARAMETERS ARE:**

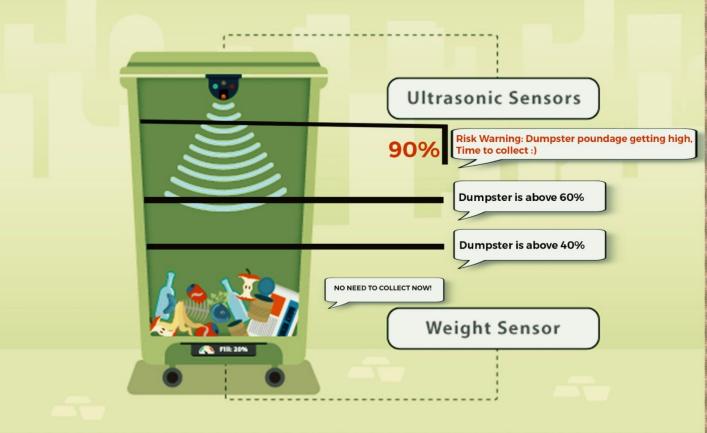
**1.DISTANCE**

**2.WEIGHT**

**PROJECT MODEL:**

The ultrasonic 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

oThe length of the trashcan is assumed to be 200cm.

oThe maximum weight of the can is assumed to be 2Kg.

oIf the garbage distance goes more than 180cm i.e more than 90% of

the trashcan, the sensor is has to send to send an alert to the garbage collector.

oIf the alert is received, then the garbage collector has to come and collect the garbage.

oThe current weight and the garbage distance is to be updated periodically, i.e for 5minutes.

**WEB PAGE CODE:**

<!DOCTYPEhtml>

<html>

<head>

<style>

.container{

text-align:center;

border:7pxrgb(255,255,255);

width:none;

height:none;

padding-top:100px;

}

.smartbin{

align-items:center;

}

</style>

<linkrel="stylesheet"href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css"integrity="sha384-

ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"crossorigin="anonymous">

<metacharset="utf-8">

<metaname="viewport"content="width=device-width">

<title>GarbageManagementSystem</title>

<linkrel="icon"type="image/x-icon"href="/Images/DUMPSTER.png">

<linkhref="style.css"rel="stylesheet"type="text/css"/>

<scriptsrc="https://www.gstatic.com/firebasejs/8.10.1/firebase-app.js"></script>

<scriptsrc="https://www.gstatic.com/firebasejs/8.10.1/firebase-database.js"></script>

<script>

varfirebaseConfig=

{

apiKey:"AIzaSyB9ysbnaWc3IyeCioh-aJQTUCMd5CBFeU",

authDomain:"fir-test-923b4.firebaseapp.com",

databaseURL:"https://fir-test-923b4-default-rtdb.firebaseio.com",

projectId:"fir-test-923b4",

storageBucket:"fir-test-923b4.appspot.com",

messagingSenderId:"943542145393",

appId:"1:943542145393:web:9b5ec7593e6a3cbd7966d0",

measurementId:"G-BN7JNX1Q7B"

};

firebase.initializeApp(firebaseConfig)

</script>

<scriptdefersrc="database.js"></script>

</head>

<bodystyle="background-color:rgb(255,255,255);">

<scriptsrc="map.js"></script>

<divid="mapcontainer">

<divid="map"></div>

<divid="alertmsg"><ahref="rr.html"target="blank">ALERTMESSAGE!</a></div>

</div>

</div>

<divclass="container">

<center><ahref="https://g.page/sairamengg?share"

type="button"class="btnbtn-dark">SMARTBIN</a></center></div>

<form>

Distance:<inputtype="text"name="Distance"value="180">

Weight:<inputtype="text"name="Weight"value="1kg">

</form>

<divclass="smartbin">

<imgsrc="Waste-Segregation-1024x398.png"alt="Wastesegregation">

</div>

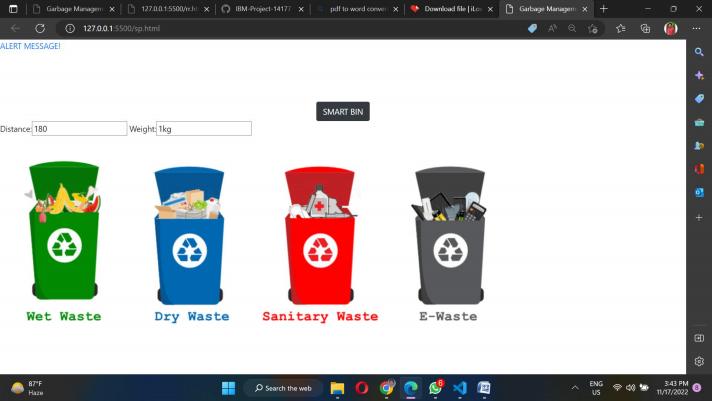
<script

src="<https://maps.googleapis.com/maps/api/js?key=AIzaSyBBLyWj-3FWtCbCXGW3ysEiI2fDfrv2v0Q&callback=myMap>"></script></div>

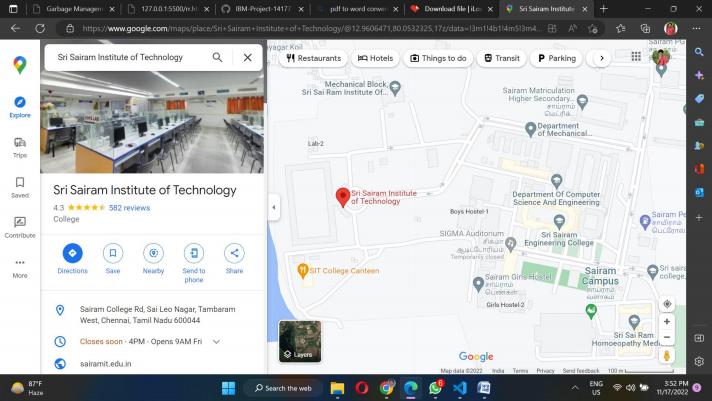
</body>

</html>

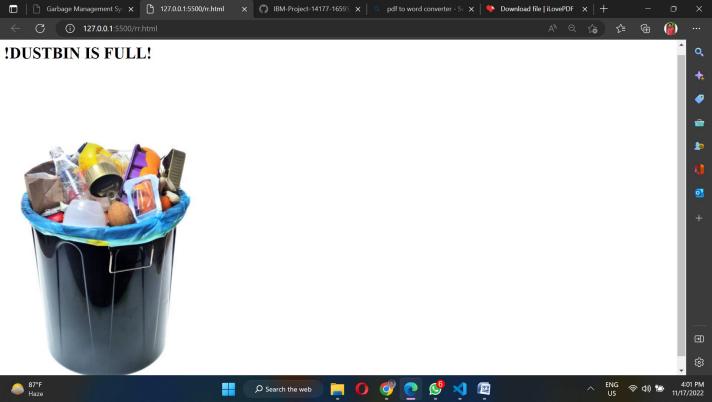
**OUTPUT:**



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



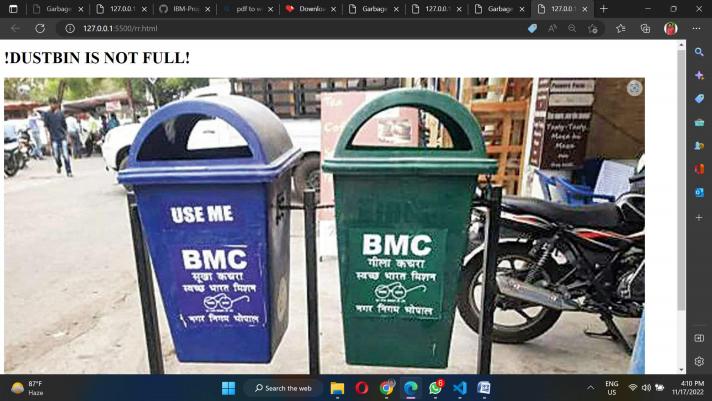
**When dustbin is filled:**



**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.

