SPRINT 3

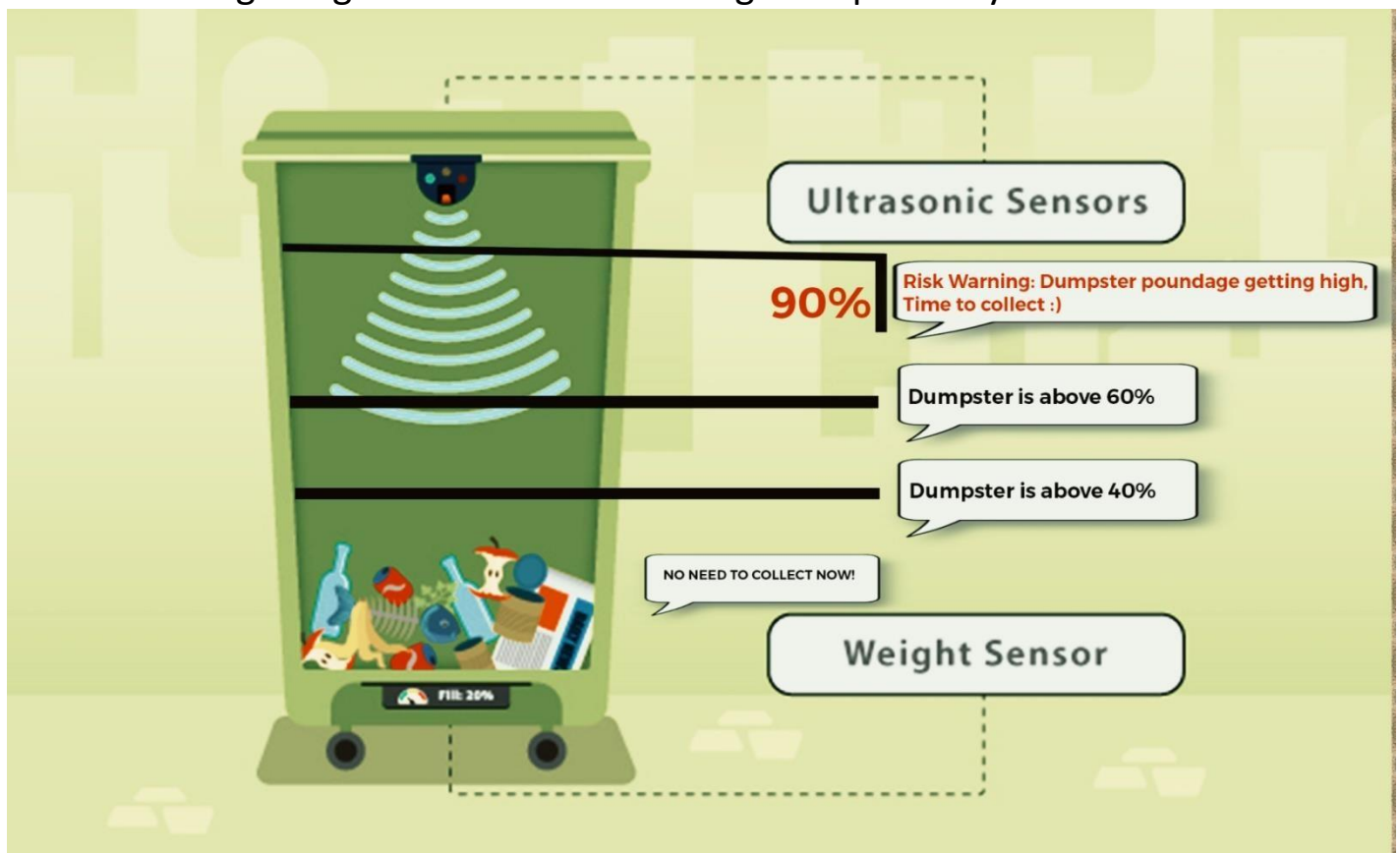| Team ID	PNT2022TMID21058
Project Name	Smart Waste Management System for Metropolitan Cities

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 ○ 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:

```
<!DOCTYPE html>
<html>

<head>
 <style>   .container{    text-align: center;        border:
7px rgb(255, 255, 255);        width: none;        height:
none;       padding-top: 100px;

   }
   .smartbin{      align-items: center;

   }

 </style>
 <link          rel="stylesheet"          href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.css"
integrity="sha384ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">  <meta charset="utf-8">
 <meta name="viewport" content="width=device-width">
 <title>Garbage Management System</title>
 <link rel="icon" type="image/x-icon" href="/Images/DUMPSTER.png">
 <link href="style.css" rel="stylesheet" type="text/css" />
 <script src="https://www.gstatic.com/firebasejs/8.10.1/firebase-app.js"></script>
 <script src="https://www.gstatic.com/firebasejs/8.10.1/firebase-database.js"></script>

 <script>   var firebaseConfig =
   {     apiKey: "AIzaSyB9ysbnaWc3IyeCioh-aJQT_UCMd5CBFeU",
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>
 <script defer src="database.js"></script>
</head>

<body style="background-color:rgb(255, 255, 255);">
 <script src="map.js"></script>


  <div id="map_container">

    <div id="map"></div>
    <div id="alert_msg"><a href="rr.html" target="_blank">ALERT MESSAGE!</a></div>
```

```html
      </div>
    </div>
    <div class="container">
```
```html
<center><a
href="https://g.page/sairamengg?share"
type="button" class="btn btn-dark">SMART
BIN</a></center></div>
    <form>

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



    </form>
    <div class="smartbin">
      <img src="Waste-Segregation-1024x398.png" alt="Waste segregation">
    </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.