SPRINT 3

TEAM ID	PNT2022TMID11049	
PROJECT NAME	Smart Waste Management System For Metropolitan Cities	

DESIGN AN WEB PAGE:

THE WEBPAGE IS BASED ON TWO PARAMETERS

- DISTANCE
- WEIGHT

PROJECT MODEL:



The ultrasonic sonic sensor at the top and the weight sensor at bottom are used to calculate the garbage distance and the weight respectively.

There are certain assumptions assumed by us, They are

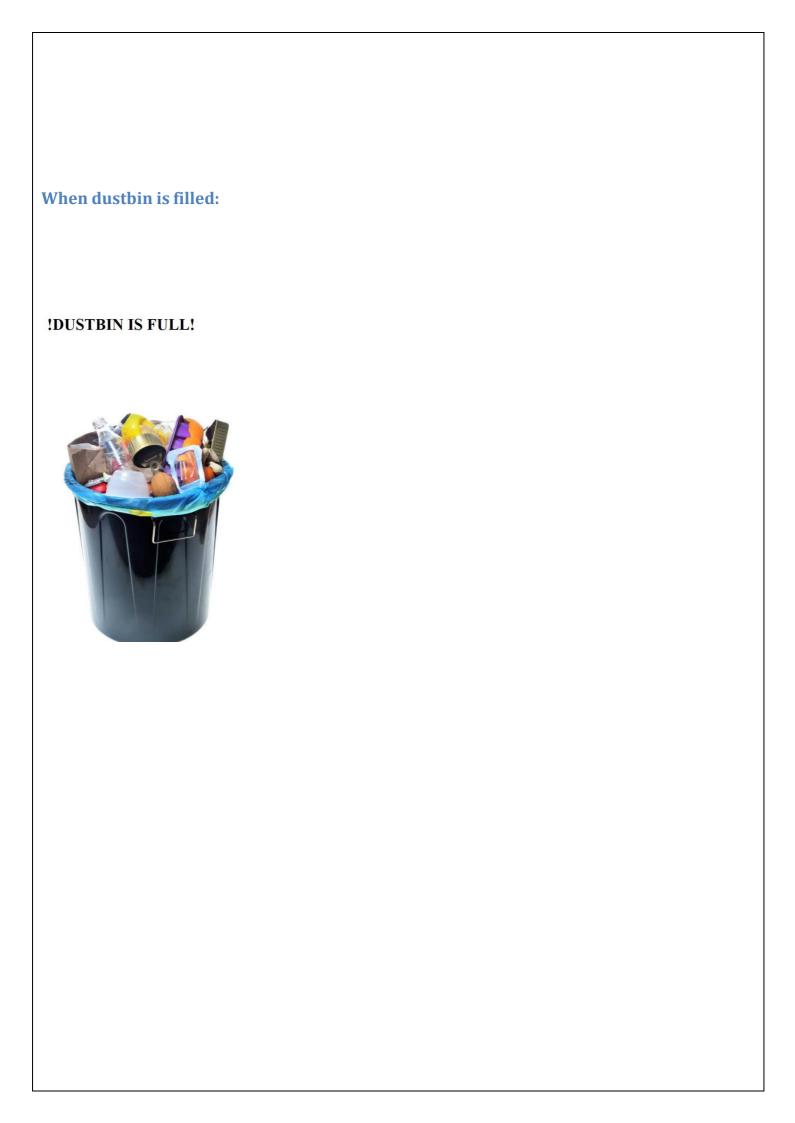
- The length of the trash can is assumed to be 200 cm.
- The maximum weight of the can is assumed to be 2 Kg.
- O If the garbage distance goes more than 180cm i.e more than 90% of the trash can, the sensor is has to send to send an alert to the garbagecollector.
- If the alert is received , then the 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>
 ggQyR0iXCbMQv3Xipma34MD+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">
k 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>
var firebaseConfig =
apiKey: "AlzaSyB9ysbnaWc3lyeCioh-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",
appld: "1:943542145393:web:9b5ec7593e6a3cbd7966d0",measurementld: "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>
</div>
</div>
<div class="container">
<center><a href="https://g.page/sairamengg?share"</pre>
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">
<script src="https://maps.googleapis.com/maps/api/js?key=AlzaSyBBLyWj-
3FWtCbCXGW3ysEiI2fDfrv2v0Q&callback=myMap"></script></div>
</body>
</html>
```

Output:				
When you click the sn	martbin button it will		where the garbage can is	s filled.
Distance: 180 Wet Waste	Weight 1kg Dry Waste	Sanitary Waste	E-Waste	



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:

!DUSTBIN IS NOT FULL!



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.

