SPRINT – 1

DATE	29 OCT 2022
TEAM ID	PNT2022TMID37949
PROJECT NAME	SMART WASTE MANAGEMENT FOR METROPOLITAN CITIES

OBJECTIVE:

A 24×7 monitoring system is designed for monitoring dumpsters. The ultrasonic sensor is used for measuring the level of waste in the dustbin. The DC motor powered platform is used for segregating wet and dry waste. The IR sensor and moisture sensor is used for separating wet and dry waste. If either of the containers is full then an alert message is sent from the dustbin to garbage collector and the cloud. In turn, based on the allotment garbage collector can clear the corresponding dumpster.
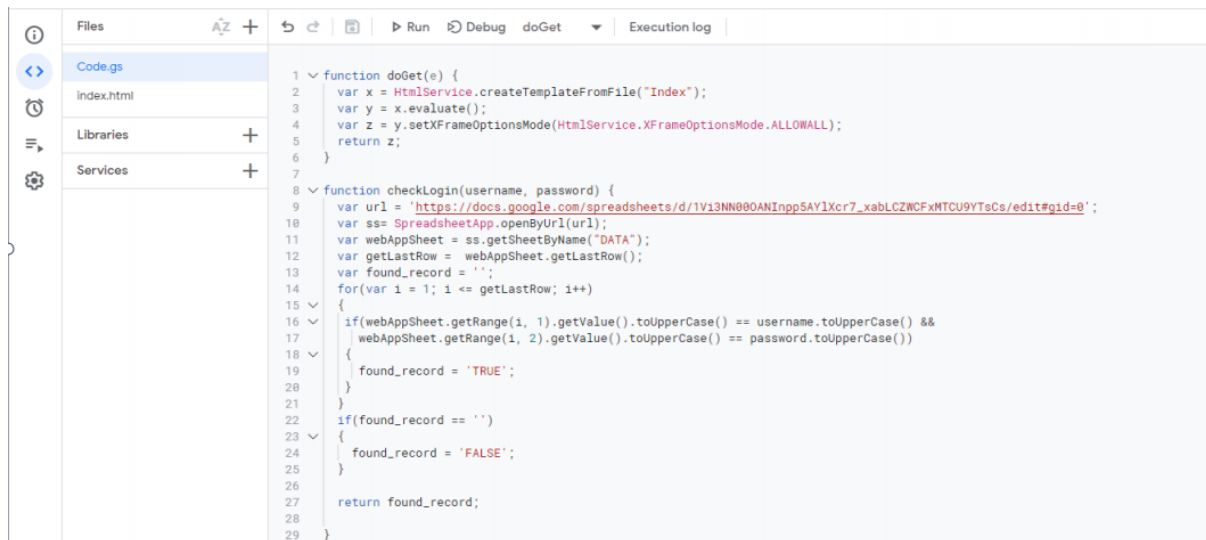
CODE FOR REGISTRATION AND LOGIN CREDENTIALS:

Code.gs:

```
function doGet(e) {
 var x = HtmlService.createTemplateFromFile("Index");
 var y = x.evaluate();
 var z = y.setXFrameOptionsMode(HtmlService.XFrameOptionsMode.ALLOWALL);
 return z;
}
function checkLogin(username, password) {
  var
url='https://docs.google.com/spreadsheets/d/1Vi3NN00OANInpp5AYlXcr7_xabLCZWCFxTCU9
YTs/edit#gid=0';
 var ss= SpreadsheetApp.openByUrl(url);
 var webAppSheet = ss.getSheetByName("DATA");
 var getLastRow = webAppSheet.getLastRow();
 var found_record = '';
 for(var i = 1; i <= getLastRow; i++)
 {
  if(webAppSheet.getRange(i, 1).getValue().toUpperCase() == username.toUpperCase()
&& webAppSheet.getRange(i, 2).getValue().toUpperCase() == password.toUpperCase())
   {
     found_record = 'TRUE';
   }
 }
if(found_record == '')
 {
   found_record = 'FALSE';
}
return found_record;

}
```

```javascript
function AddRecord(usernamee, passwordd, email, phone) {
 var url =
'https://docs.google.com/spreadsheets/d/1Vi3NN00OANInpp5AYlXcr7_xabLCZWCFxMTCU9YTs
Cs/edit#gid=0';
 var ss= SpreadsheetApp.openByUrl(url);
 var webAppSheet = ss.getSheetByName("DATA");
 webAppSheet.appendRow([usernamee,passwordd,email,phone]);

}
```



```javascript
1   function doGet(e) {
2       var x = HtmlService.createTemplateFromFile("Index");
3       var y = x.evaluate();
4       var z = y.setXFrameOptionsMode(HtmlService.XFrameOptionsMode.ALLOWALL);
5       return z;
6   }
7
8   function checkLogin(username, password) {
9       var url = 'https://docs.google.com/spreadsheets/d/1Vi3NN00OANInpp5AYlXcr7_xabLCZWCFxMTCU9YTsCs/edit#gid=0';
10      var ss= SpreadsheetApp.openByUrl(url);
11      var webAppSheet = ss.getSheetByName("DATA");
12      var getLastRow =  webAppSheet.getLastRow();
13      var found_record = '';
14      for(var i = 1; i <= getLastRow; i++)
15      {
16        if(webAppSheet.getRange(i, 1).getValue().toUpperCase() == username.toUpperCase() &&
17          webAppSheet.getRange(i, 2).getValue().toUpperCase() == password.toUpperCase())
18        {
19          found_record = 'TRUE';
20        }
21      }
22      if(found_record == '')
23      {
24        found_record = 'FALSE';
25      }
26
27      return found_record;
28
29   }
```

index.html:

```html
<!DOCTYPE html>
<html>
 <head>
  <style>
   body{
      background-image:url('background.jpg');
      background-repeat: no-repeat;
      background-attachment: fixed;
      background-size:100% 100%;
}
</style>
<base target="_top">
<script>
  function AddRow()
{
  var usernamee = document.getElementById("usernamee").value;
  var passwordd = document.getElementById("passwordd").value;
  var email = document.getElementById("email").value;
  var phone = document.getElementById("phone").value;
  if (usernamee==""|| passwordd==""|| email==""|| phone=="") {
    return false;
  }
  else {
    google.script.run.AddRecord(usernamee,passwordd,email,phone);
```

```
      document.getElementById("page2_id1").className = "page2_id1-off";
      document.getElementById("page3_id1").className = "page3_id1";
    }
  }
  function LoginUser()
  {
var username = document.getElementById("username").value;
var password = document.getElementById("password").value;
google.script.run.withSuccessHandler(function(output)
{
  if(output == 'TRUE')
  {
    var url1 ='https://node-red-jrfhu-2022-10-06.eu
gb.mybluemix.net/ui/#!/0?socketid=kVaDwxl44Sp25mOZAAAX';
    var winRef = window.open(url1);
    winRef ?
google.script.host.close():window.onload=function(){document.getElementById('url')
.href = url1;}
}
else if(output == 'FALSE')
 {
   document.getElementById("errorMessage").innerHTML = "Invalid data";
 }
}).checkLogin(username, password);
}
function function1(){
document.getElementById("page1_id1").className = "page1_class1-off";
document.getElementById("page2_id1").className = "page2_id1";
}
function function3(){
 document.getElementById("page3_id1").className = "page3_id1-off";
 document.getElementById("page1_id1").className = "page1_id1";
}
</script>
<style>

/*page1*/
.page1_class1-off{
 display: none;
}
/*page2*/
.page2_class1{
 display: none;
}
.page2_id1-off{
 display: none;
}
/*page3*/
.page3_class1{
 display: none;

}
.page3_id1-off{
 display:none;
}

input[type=text]:hover{
```

```html
    border-bottom:2px solid black;
  }
input[type=number]:hover{
    border-bottom:2px solid black;
  }
input[type=password]:hover{
    border-bottom:2px solid black;
  }

</style>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
 </head>
 <body>
    <br><br>
<!--page1-->
<center>
 <div class="page1_class1" id="page1_id1" style="background
color:rgb(135, 207, 235);border:2px solid gray;border-radius: 20px;width:
250px;padding
top: 10px;padding-bottom: 20px;padding-left: 20px;padding-right: 20px;">
  <h1>Login Here</h1>
  <br>
  <p>Username</p>
  <input type="text" id="username" placeholder=" Enter Username" style=";outline:
none; textalign: center;font-size:0.9em ;width: 50%;font-weight:bold;"/><br>
  <br>
  <p>Password</p>
  <input type="password" id="password" placeholder=" Enter Password"style="border
top: none;border-right: none;border-left: none;outline: none; text-align:
center;font
size:0.9em ;width: 50%;font-weight:bold;"/>
 <br><span id="errorMessage" style="color: red" ></span><br>
 <br>
 <input type="submit" value="Login" onclick="LoginUser()" style="float:
centre;padding
top: 1px;padding-bottom: 1px;padding-left: 10px;padding-right: 10px;font-size:
0.9em;font
weight:bold;" /><br>
 <br><br>
 <b>If you don't have an account,</b><input type="button" onClick="function1()"
value="Create New" style="margin-top: 5px;font-weight:bold;" />
</div>

<!--page2-->
<div class="page2_class1" id="page2_id1" style="background
color:rgb(135, 207, 235);border:2px solid gray;border-radius: 20px;width:
250px;paddingtop: 10px;padding-bottom: 20px;padding-left: 20px;padding-right:
20px;">
<h1>Register Here</h1>
<p>Name</p>
  <input type="text" id="usernamee" placeholder=" Enter Name" style="border-top:
none;border
right: none;border-left: none;outline: none; text-align: center;font
size:0.9em ;width: 50%;font-weight:bold;"/><br>

<br>
<p>Password</p>
<input type="password" id="passwordd" placeholder="Create password" style="border
```

```html
top: none;border-right: none;border-left: none;outline: none; text-align:
center;font
size: 0.9;width: 50%;font-weight:bold;" /><br>
   <br>
<p>Email</p>
   <input type="text" id="email" placeholder=" Enter Email" style="border-top:
none;border
right: none;border-left: none;outline: none; text-align: center;font
size:0.9em ;width: 50%;font-weight:bold;"/><br>
 <br>
<p>Phone Number</p>
 <input type="number" id="phone" placeholder="Enter number" style="border-top:
none;border
right: none;border-left: none;outline: none; text-align: center;font
size:0.9em ;width: 50%;font-weight:bold;" /><br><br>
 <br><br>
 <input type="submit" value="Create" onclick="AddRow()" style="float:
centre;paddingtop: 1px;padding-bottom: 1px;padding-left: 10px;padding-right:
10px;font-size: 0.9em;font
weight:bold;" />
 <br>
</div>


<!--page3-->
<div class="page3_class1" id="page3_id1" style="background:none;border:2px solid
gray;border
radius: 20px;width: 250px;padding-top: 10px;padding-bottom: 20px;padding-left:
20px;paddingright: 20px;"><center>
 <h2> REGISTRATION SUCCESSFUL! Login to your account</h2>
 <input type="submit" onClick="function3()" value="Login" style="font-
weight:bold;"><br>
</div>


</center>
</body>
</html>
```



```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <style>
5        body{
6          background-image:url('background.jpg');
7          background-repeat: no-repeat;
8          background-attachment: fixed;
9          background-size:100% 100%;
10       }
11      </style>
12      <base target="_top">
13      <script>
14        function AddRow()
15        {
16          var usernamee = document.getElementById("usernamee").value;
17          var passwordd = document.getElementById("passwordd").value;
18          var email = document.getElementById("email").value;
19          var phone = document.getElementById("phone").value;
20          if (usernamee==""|| passwordd==""|| email==""|| phone=="") {
21            return false;
22          }
23          else {
24          google.script.run.AddRecord(usernamee,passwordd,email,phone);
25          document.getElementById("page2_id1").className = "page2_id1-off";
26          document.getElementById("page3_id1").className = "page3_id1";
27          }
28        }
29
```

REGISTRATION AND LOGIN FORM:

Login Here

Username

Enter Username

Password

Enter Password

Login

If you don't have an account,

Create New

Register Here

Name

Enter Name

Password

Create password

Email

Enter Email

Phone Number

Enter number

Create

REGISTRATION SUCCESSFUL! Login to your account

Login

REGISTRATION FORM DATABASE:

	NAME	PASSWORD	E-MAIL	PHONE NUMBER	
1	NAME	PASSWORD	E-MAIL	PHONE NUMBER	
2	Janani	1234	41141910	9094356731	
3	Kalaivani	9876	41141910	6387456289	
4	Logeshwar	4321	41141910	7832680914	
5	Surya	5678	41141910	8361904542	
6	Pooja	2468	pooja.d@r	9356289180	
7					
8					
9					

CIRCUIT DIAGRAM: