

SPRINT - 1

Date	29 October 2022
Team ID	PNT2022TMID25078
Project Name	Smart Waste Management System 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.

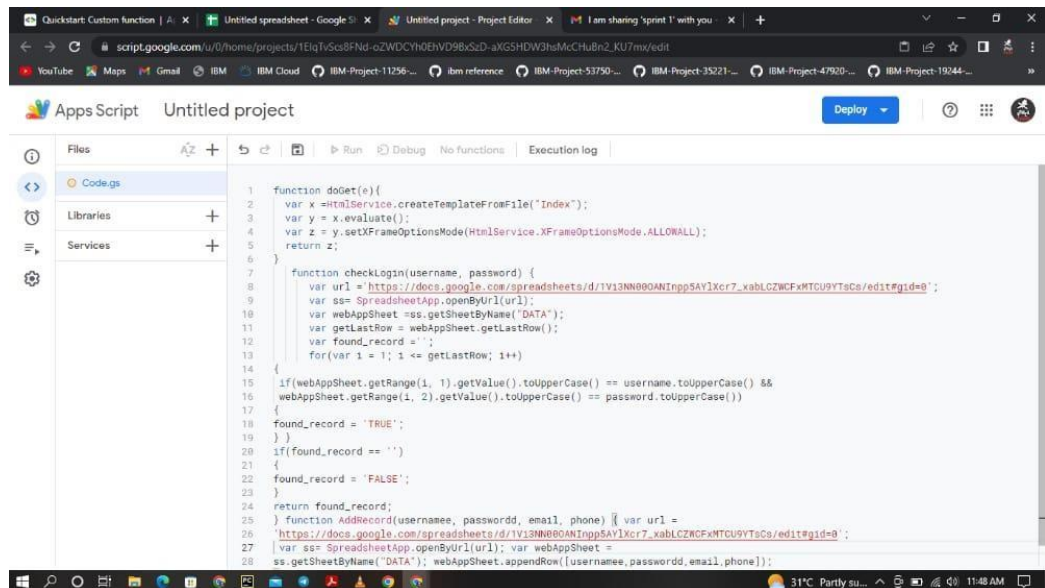
CODE FOR REGISTRATION AND LOGIN CREDENTIALS:

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/1Vi3NN000ANInpp5AYlXcr7_xabLCZWCFxMTCU9YTsc
s/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;

} function AddRecord(usernameee, passwordd, email, phone) {  var url =
'https://docs.google.com/spreadsheets/d/1Vi3NN000ANInpp5AYlXcr7_xabLCZWCFxMTCU9YTsc
s/edit#gid=0';  var ss= SpreadsheetApp.openByUrl(url);  var webAppSheet =
```

```
ss.getSheetByName("DATA"); webAppSheet.appendRow([usernamee,passwordd,email,phone]);
}
```



index.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.eugb.mybluemix.net/ui/#!/0?socketid=kVaDwx144Sp25m0ZAAAX';
        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{ 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="backgroundcolor:rgb(135, 207,
235);border:2px solid gray;border-radius: 20px;width: 250px;paddingtop: 10px;paddingbottom:
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;
text-align: 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="Creat
e 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;padding-top: 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;borderright: 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-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;borderright: 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;borderright: 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;padding-top:
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;borderradius: 20px;width: 250px;padding-top: 10px;padding-bottom: 20px;padding-left:
20px;padding-right: 20px;"><center>
    <h2> REGISTRATION SUCCESSFUL! Login to your account</h2>
    <input type="submit" onClick="function3()" value="Login" style="font-weight:bold;"><br>
</div>

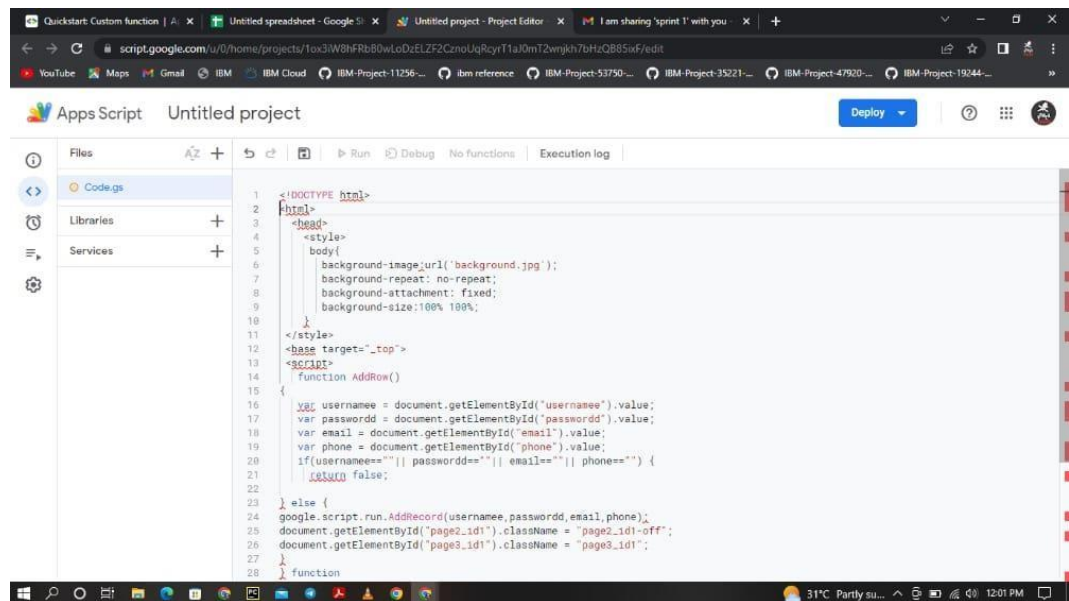
```

```

</center>

```

</body>
</html>



REGISTRATION AND LOGIN FORM:

Login Here

Username

Password

If you don't have an account,

Register Here

Name

Password

Email

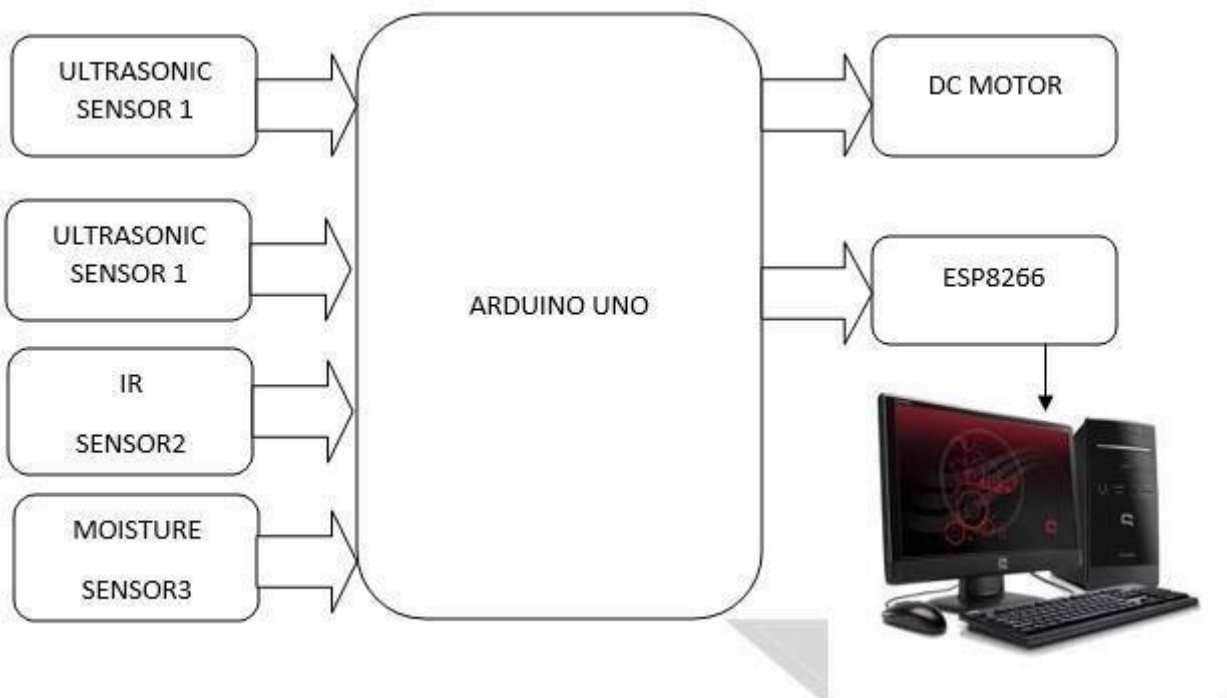
Phone Number

**REGISTRATION
SUCCESSFUL! Login
to your account**

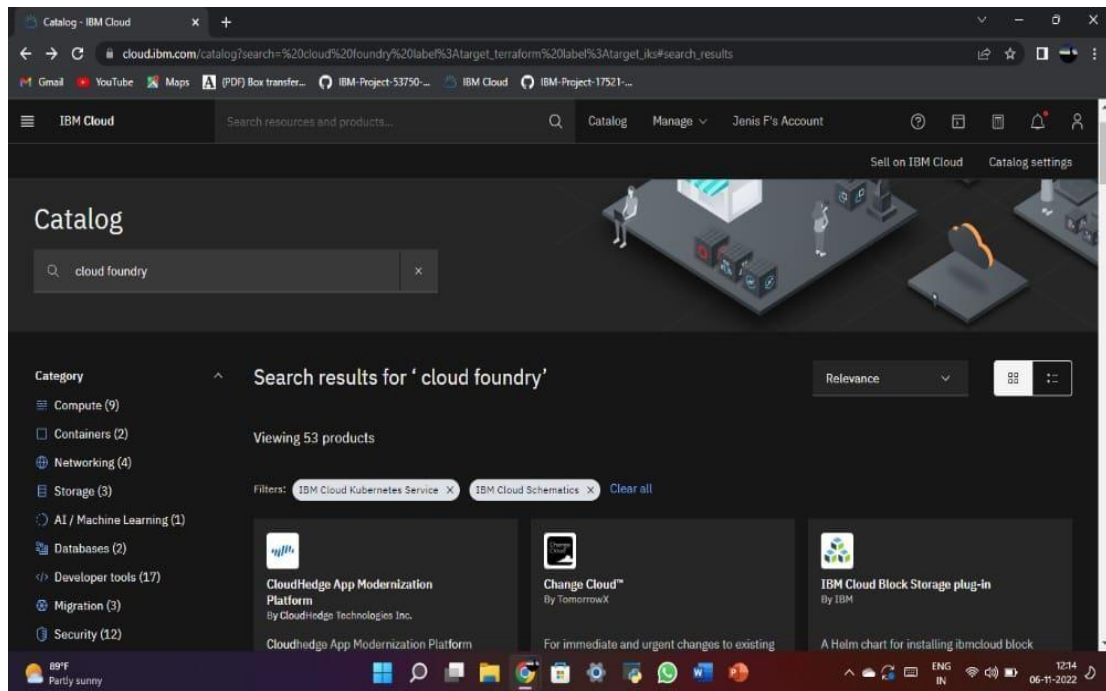
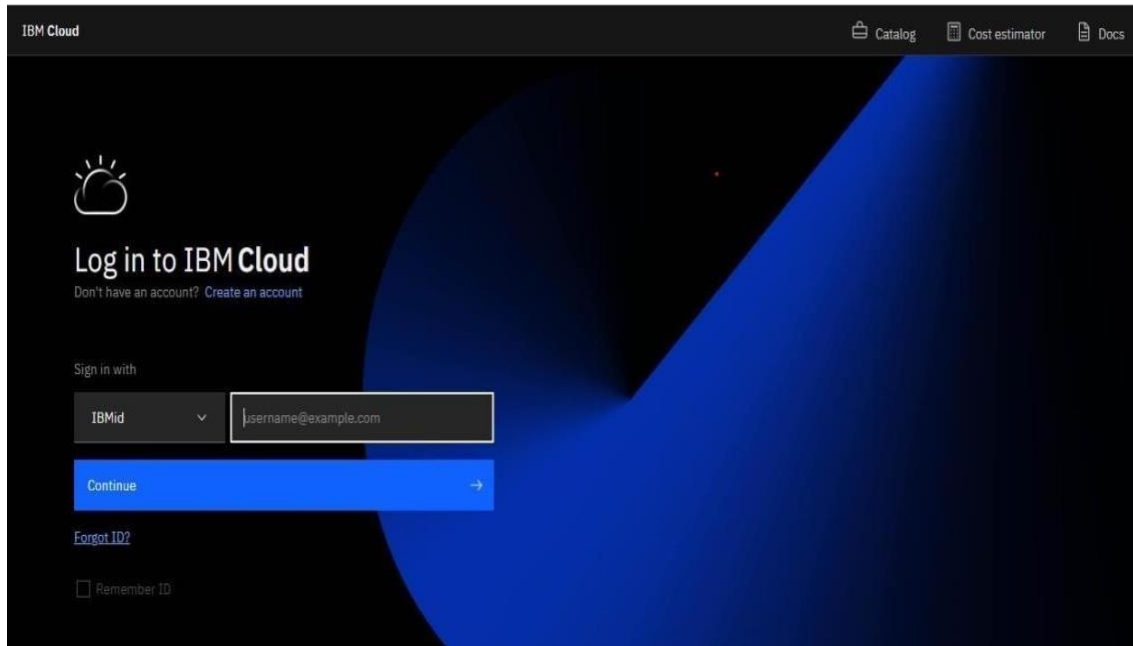
REGISTRATION FORM DATABASE:

	A	B	C	D	E	F	G	H
	NAME	PASSWORD	EMAIL	PHONE NUMBER				
35	SANJAY.M	6535	msanjay11072001@gmail.com	8925364105				
36	srikanth.m	7837	srikanth14314356@gmail.com	7338788939				
37	jenis.f	7658	jenisjanis011@gmail.com	9344193946				
38	bharath.m	8640	bharathbharath3138@gmail.com	9841750806				
39	nancy beula	3865	nancynb085@gmail.com	6374177209				
40								
41								
42								
43								
44								
45								
46								
47								
48								

CIRCUIT DIAGRAM:



IBM CLOUD REGISTRATION:



Cloud Foundry - IBM Cloud

cloud.ibm.com/catalog/starters/cloud-foundry/runtime=liberty-for-java

IBM Cloud

Create About

Visibility Restricted

Type Cloud Foundry app

Provider IBM

Category Compute

Compliance EU Supported

Location Sydney Frankfurt London Washington DC Dallas

Related links Docs Terms

Select a location

London (eu-gb)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Standard 256 MB+	Build, Deploy and Scale Cloud-Native Applications. Create multiple instances of the application for High Availability.	\$0.07 USD/GB Hour

Configure your resource

Summary

Cloud Foundry App [Estimate costs](#)

Location: London

Plan: Default

Runtime: Liberty for Java™

App name: DUSTINBIN TRACK

Host name: DUSTINBIN--TRACK

Upgrade

Add to estimate

View terms

89°F Partly sunny

Cloud Foundry - IBM Cloud

cloud.ibm.com/cloudfoundry/overview

IBM Cloud

Cloud Foundry

Public

Deploy and run your applications without managing servers or clusters with IBM Cloud Foundry

Cloud Foundry automatically transforms source code into containers, scales them on demand, and manages user access and capacity.

Cloud Foundry in the IBM Cloud

Public Applications

Create and deploy apps on IBM Cloud's multi-tenant Cloud Foundry environment available in 5 IBM Cloud Regions. Get started in minutes by deploying your applications, and let IBM Cloud manage them for you.

Waiting for 684d0d47.akstat.io...

IBM Cloud Foundry Public is being deprecated. Please see full details.

89°F Partly sunny