

SPRINT - 1

Date	29 October 2022
Team ID	PNT2022TMID05196
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/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';
  }

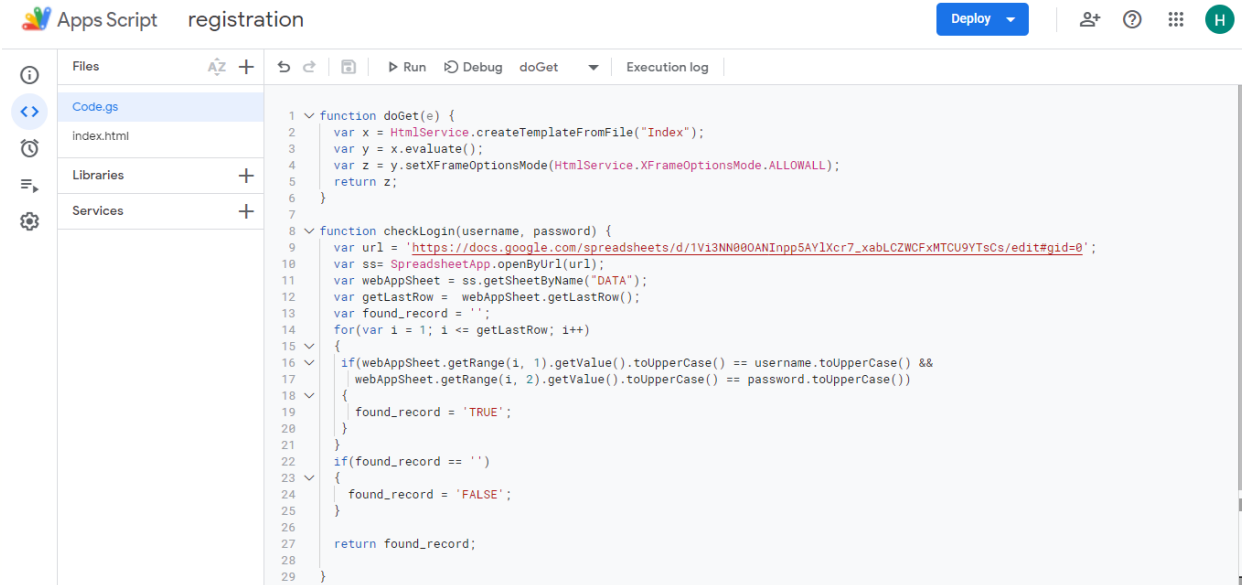
  return found_record;
}
```

```

}

function AddRecord(usernamee, passwordd, email, phone) {
  var url = 'https://docs.google.com/spreadsheets/d/1Vi3NN000ANInpp5AYlXcr7_xabLCZWCFxMTCU9YTscs/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);
        }
      }
    </script>
  </head>
  <body>
    <div>
      <input type="text" id="usernamee"/>
      <input type="password" id="passwordd"/>
      <input type="text" id="email"/>
      <input type="text" id="phone"/>
      <input type="button" value="Add Record"/>
    </div>
  </body>
</html>

```

```

        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=kVaDwx144Sp25mOZAAAX';
            var winRef = window.open(url1);
            winRef ? google.script.host.close() : window.onload=function(){document.getElementById
('url1').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="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; 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;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-
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;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;border-
radius: 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>

```

Apps Script registration

Deploy

Files

- Code.gs
- index.html
- Libraries
- Services

Execution log

```

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

Password

If you don't have an account,

Register Here

Name

Password

Email

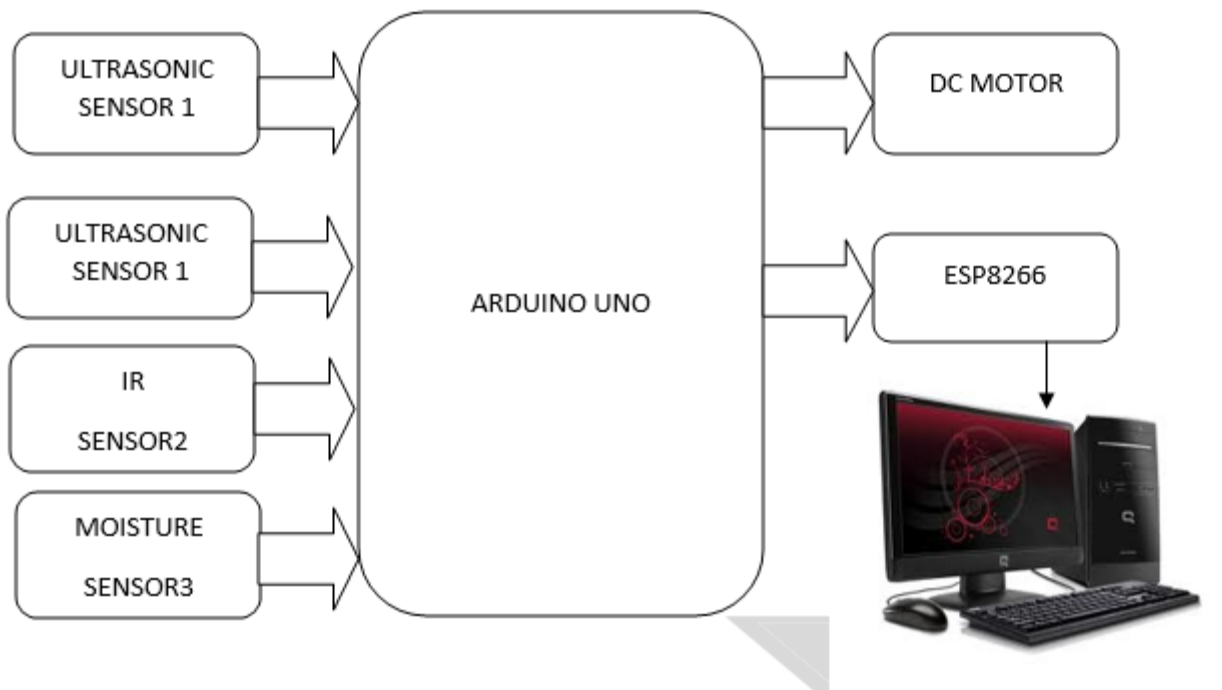
Phone Number

**REGISTRATION
SUCCESSFUL! Login
to your account**

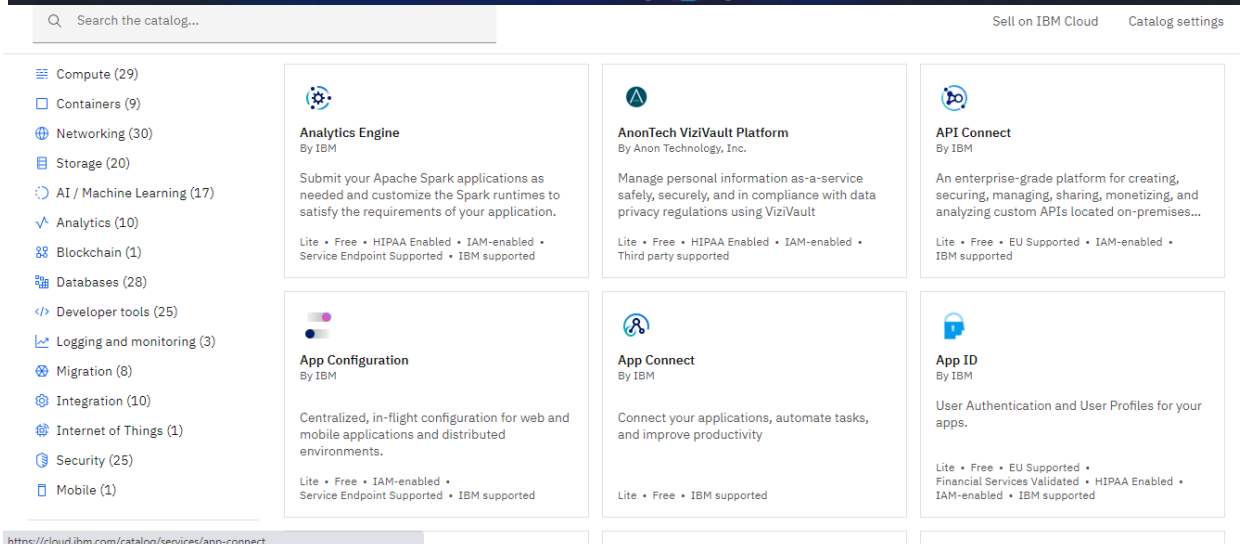
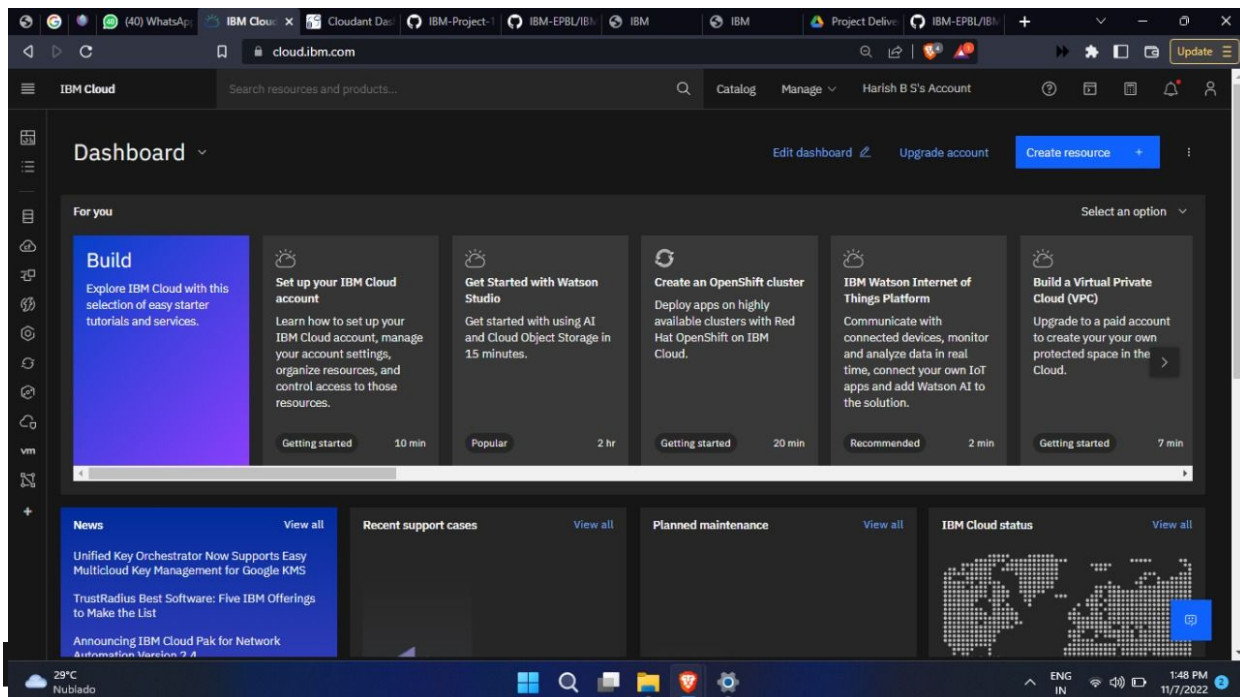
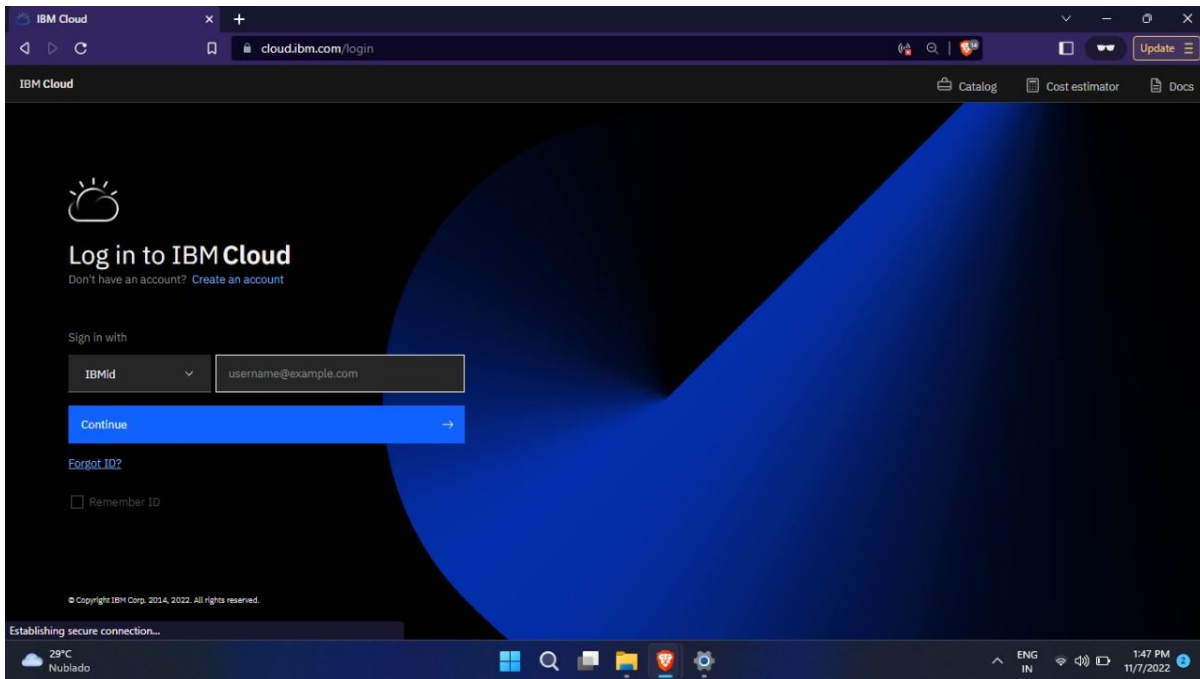
REGISTRATION FORM DATABASE:

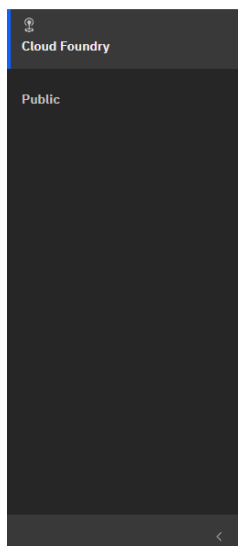
	A	B	C	D	E	F
1	Name	Password	Email	Phone		
2	B S Harish	2101	harishsaran2102@gmail.com	9988776655		
3	A Jerin	3107	jerin317@gmail.com	9988775566		
4	Jayavenkatesh PR	2107	jaya@gmail.com	9977885588		
5	Gokul Haran N	3101	gokulkulhar@gmail.com	8877669989		
6						
7						
8						
9						

CIRCUIT DIAGRAM:



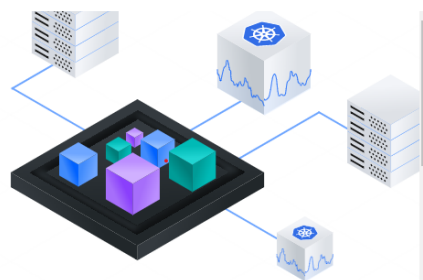
IBM Cloud REGISTRATION:





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.

IBM Cloud Foundry Public is being deprecated. Please see [full details](#).



Catalog /

Cloud Native Storage and Data Service

Robin Cloud Native Storage and Data Service is a high-performance Storage and Data Management solution for your Stateful Applications on IBM Cloud IKS.

Create

About

Type
Service

Provider
Robin.io

Last updated
10/11/2022

Category
Storage

Compliance
IAM-enabled

Location
Frankfurt
Dallas

Disclaimer
This third-party product is provided by a vendor outside of IBM and is subject to a separate agreement between you and the third-party, if you accept their terms. IBM is not responsible for the product and makes no privacy, security, performance, support, or other commitments regarding the product.

Select a location

Frankfurt (eu-de)

Select a pricing plan

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

Summary

Cloud Native Storage and Data Service [Estimate costs](#)

Location: Frankfurt

Plan: Hourly Pay-as-you-go

Service name: Cloud Native Storage and Data Service-4s

☐ I have read and agree to the following third party terms: [Terms](#)

Create

Add to estimate