SPRINT - 1

Date	06 November 2022
Team ID	PNT2022TMID21627
Project Name	Smart Waste Management System for Metropolitan Cities

OBJECTIVE:

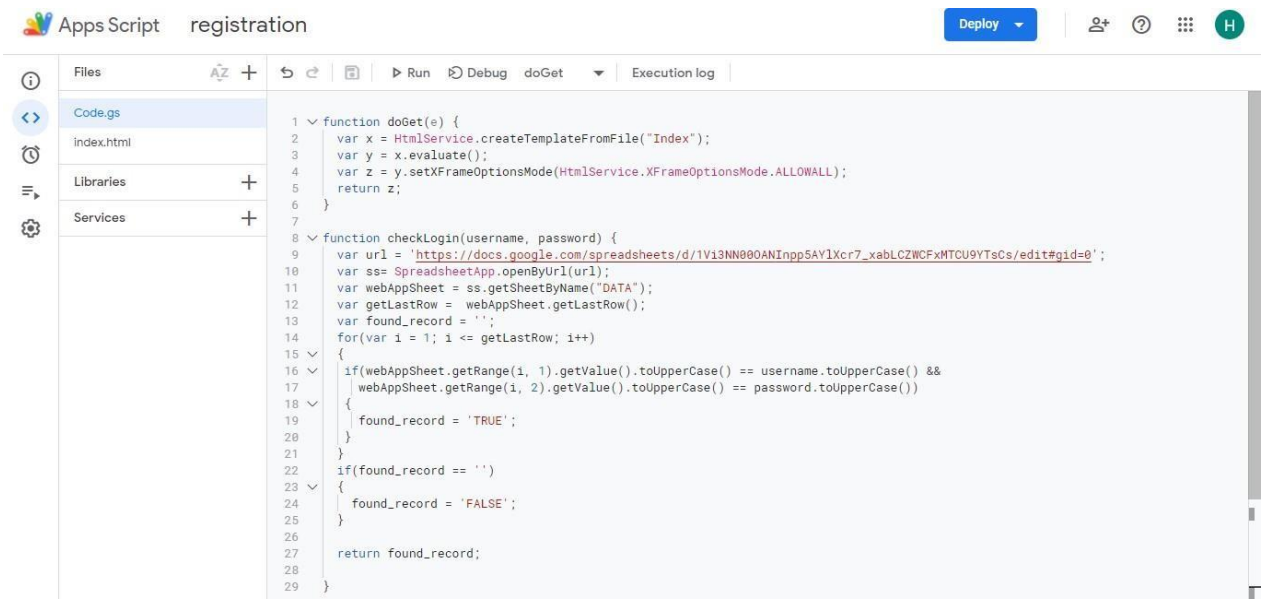
A 24×7 monitoring system is designed for monitoring dumpsters. The ultrasonic sensor is used for measuring the level of waste in the dustbin. The DC motor powered platform is used for segregating wet and dry waste. The IR sensor and moisture sensor is used for separating wet and dry waste. If either 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/1Vi3NN00OANInpp5AYlXcr7_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(usernamee, passwordd, email, phone) {
  var url = 'https://docs.google.com/spreadsheets/d/1Vi3NN00OANInpp5AYlXcr7_xabLCZWCFxMTCU9YTsCs/edit#gid=0';
  var ss= SpreadsheetApp.openByUrl(url);
  var webAppSheet = ss.getSheetByName("DATA");
  webAppSheet.appendRow([usernamee,passwordd,email,phone]);

}
```



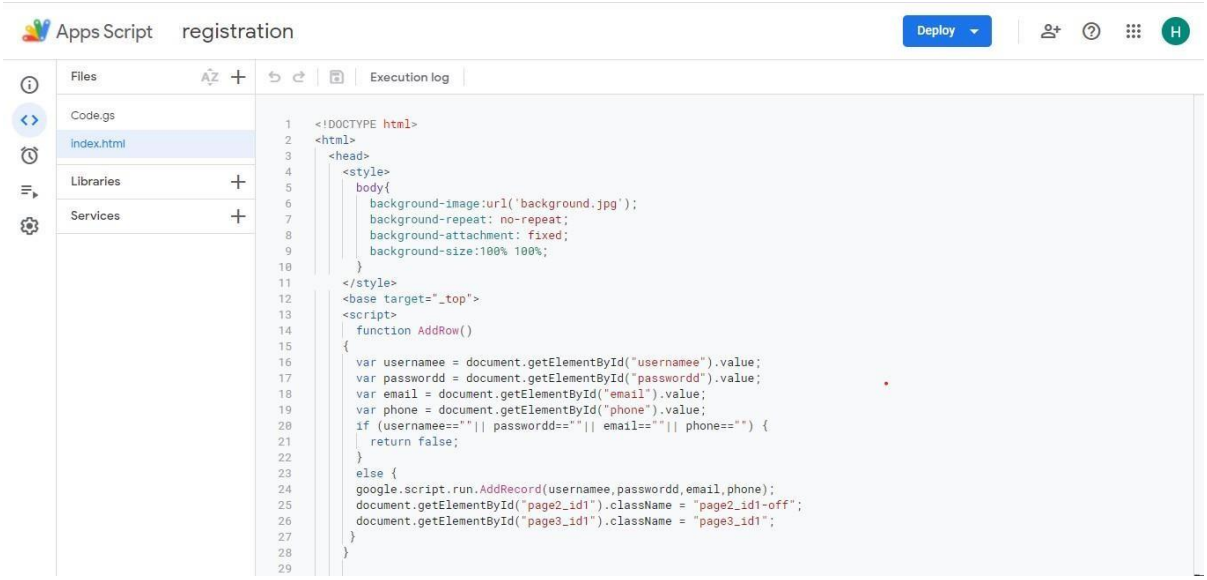
index.html:

```
<!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);
```

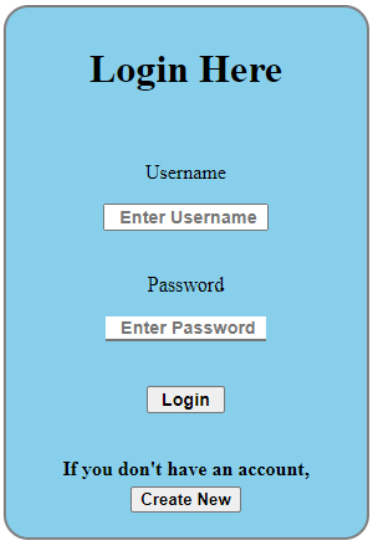
```
      document.getElementById("page2_id1").className = "page2_id1-off";
      document.getElementById("page3_id1").className = "page3_id1";
     }
    }

     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;
```

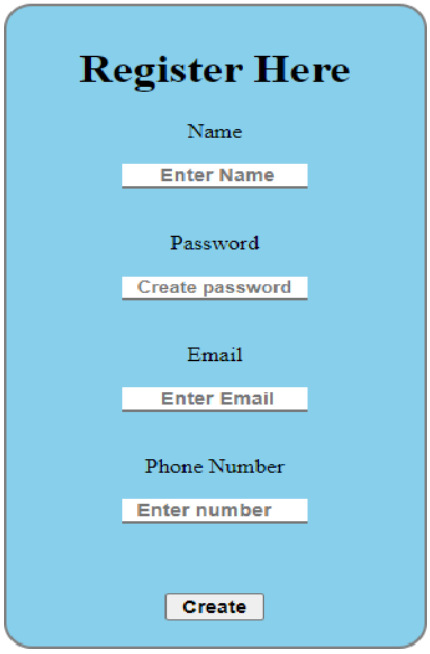
```
}
.page3_id1-off{
    display:none;
}


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



REGISTRATION AND LOGIN FORM:





REGISTRATION FORM DATABASE:

	A	B	C	D	E
1	Name	Password	Email	Phone number	
2	DEEPIKA K P	1107	deepu@gmail.com	9876543210	
3	GAYATHRI	2510	gayu@gmail.com	9765432180	
4	HARIPRIYA S	1205	hari@gmail.com	9654321870	
5	HITHAISHI U M	2805	hithaishi@gmail.com	9087654321	
6					
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8					
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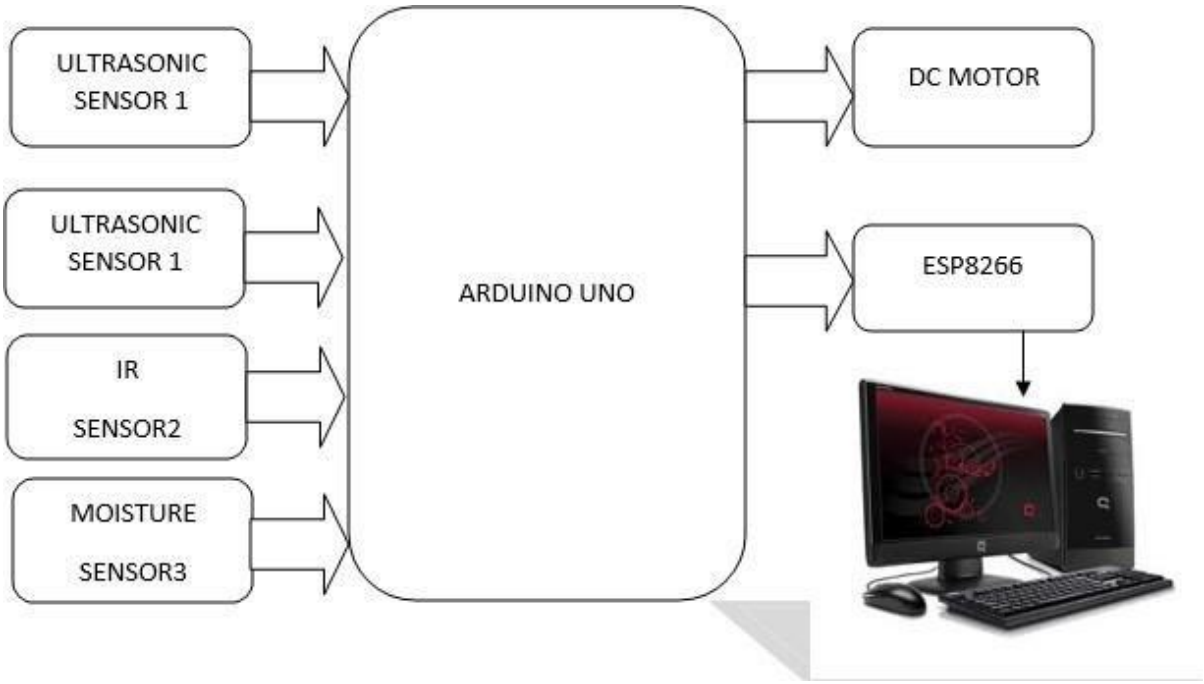
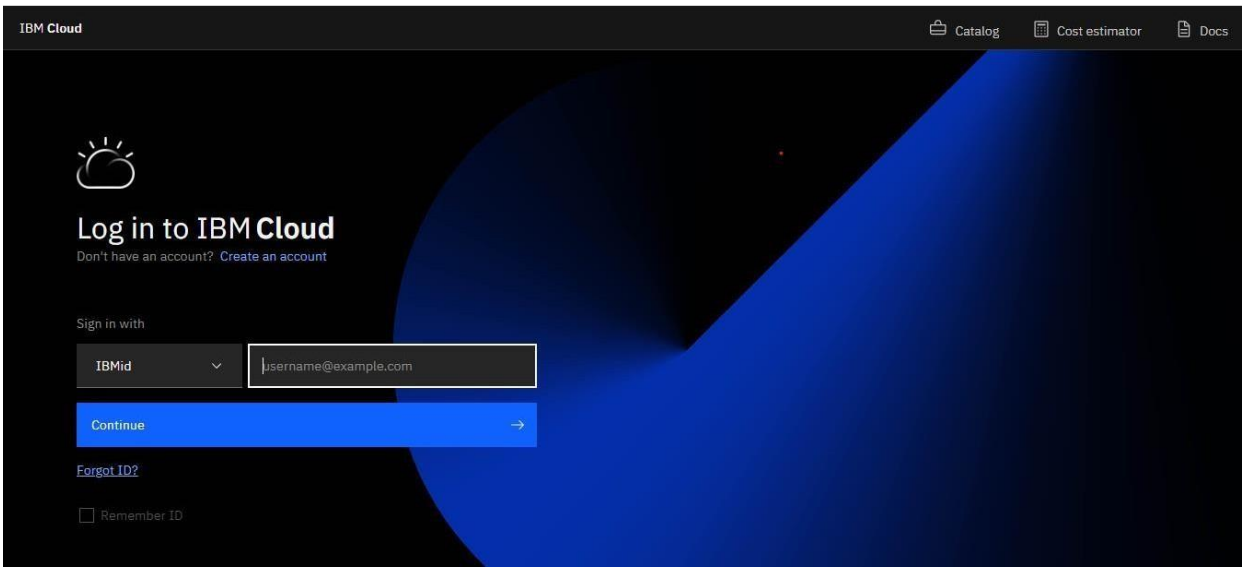
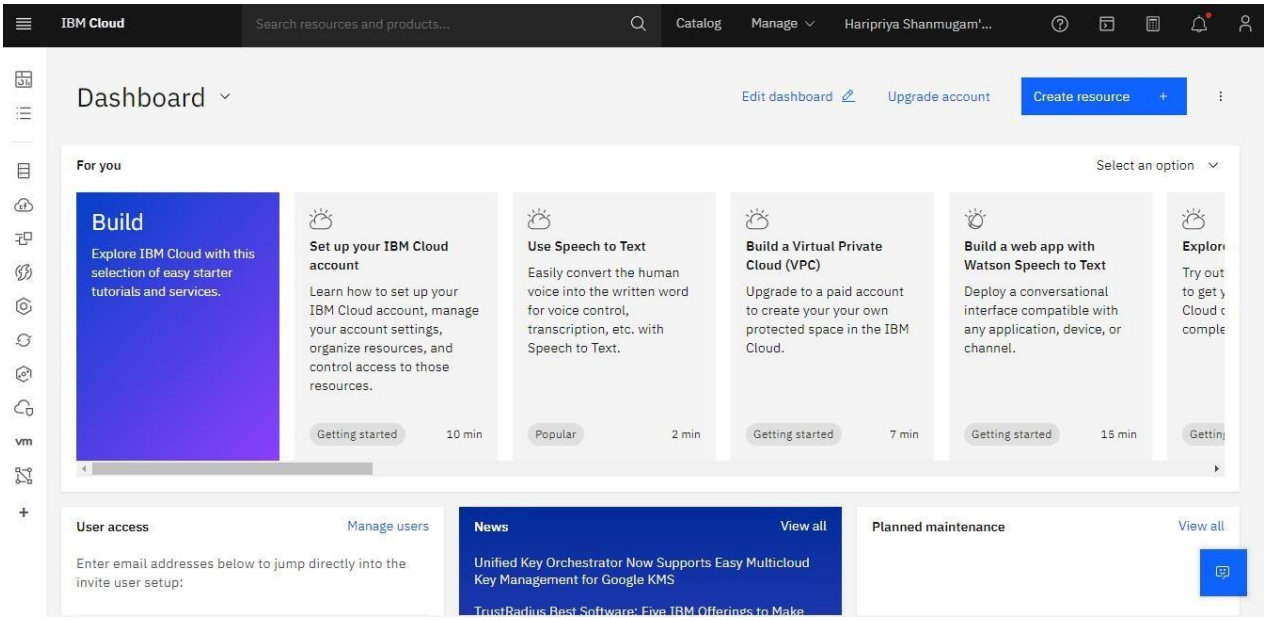
17					
18					
19					
20					
21					
22					

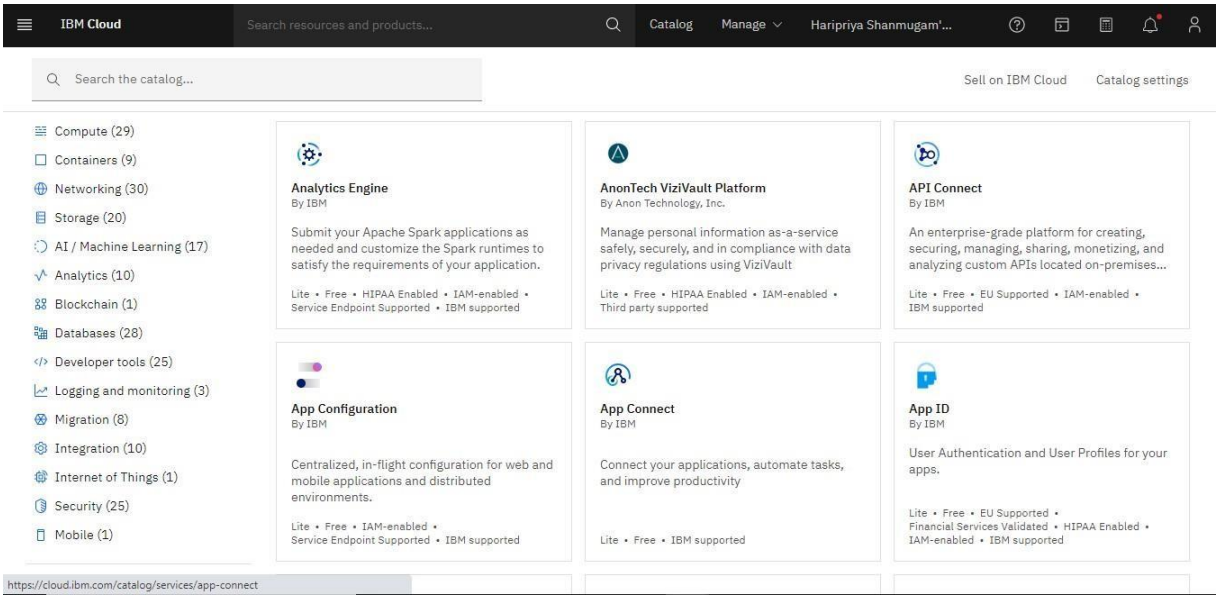
CIRCUIT DIAGRAM:

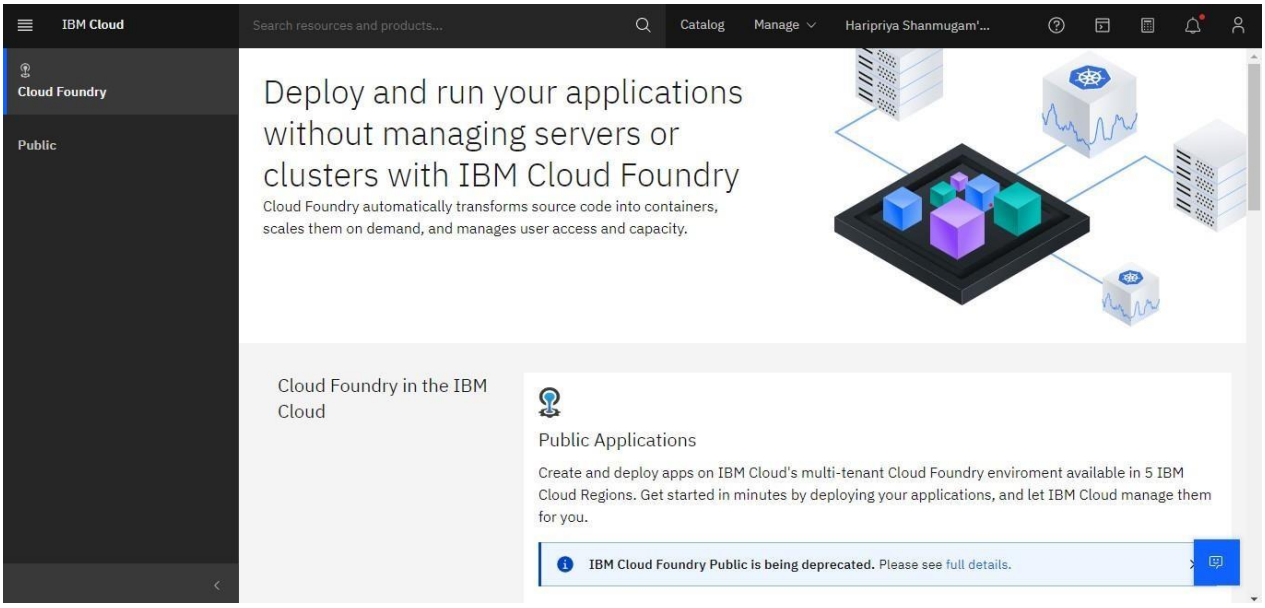


IBM CLOUD REGISTRATION:





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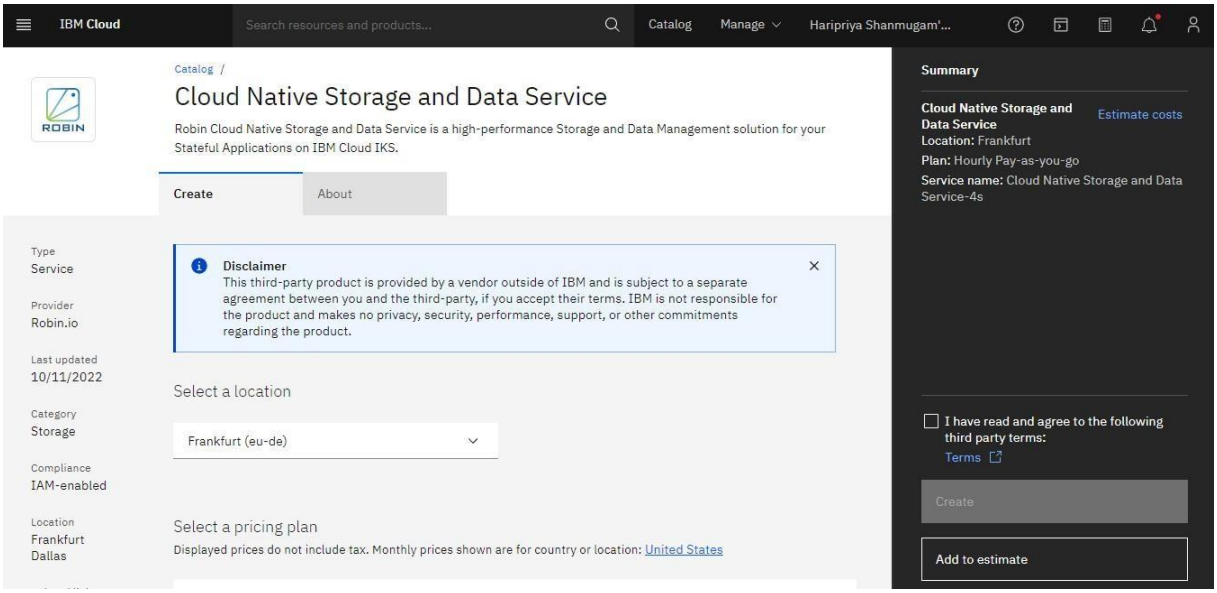
Create and deploy apps on IBM Cloud's multi-tenant Cloud Foundry enviroment available in 5 IBM Cloud Regions. Get started in minutes by deploying your applications, and let IBM Cloud manage them for you.
IBM Cloud Foundry Public is being deprecated. Please see full details.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Robin Cloud Native Storage and Data Service is a high-performance Storage and Data Management solution for your Stateful Applications on IBM Cloud IKS.
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