SPRINT - 1

Date	06 November 2022
Team ID	PNT2022TMID27134
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_xabLCZWCFxMTCU9YTsC
```
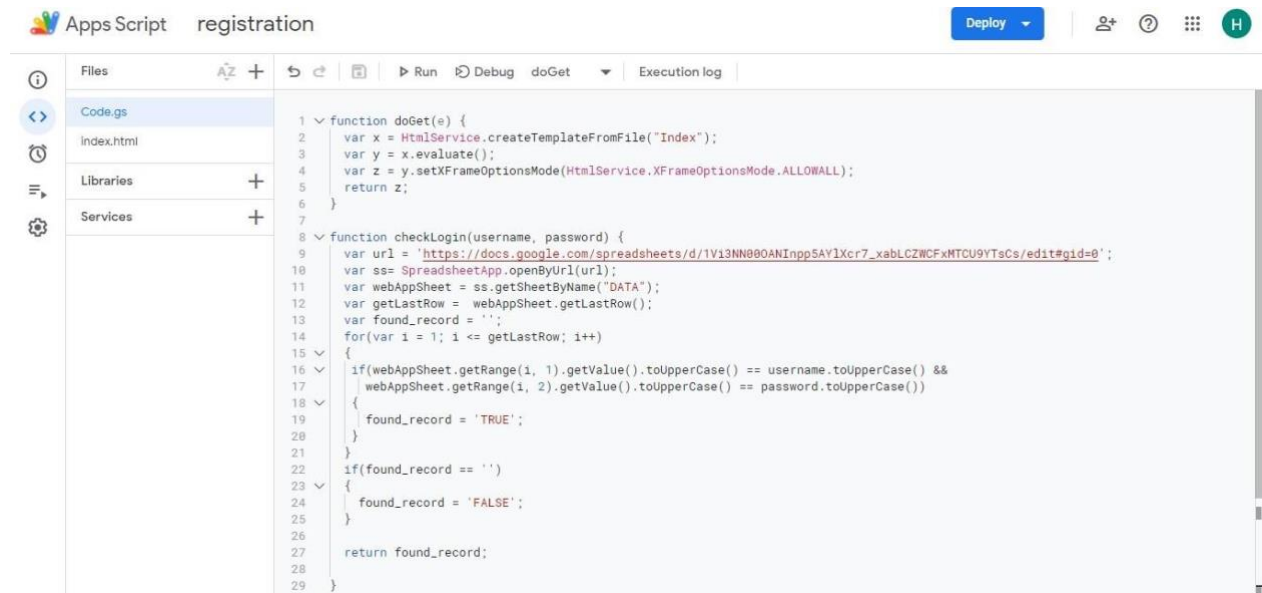
```
s/edit#gid=0';                  var                 ss=
  SpreadsheetApp.openByUrl(url);            var
  webAppSheet = ss.getSheetByName("DATA");
  webAppSheet.appendRow([usernamee,passwordd,email,phone]);
}
```



```
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:

```
<!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()
```

```javascript
        { 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;
```

```html
        } 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>
```

```html
    <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>
```
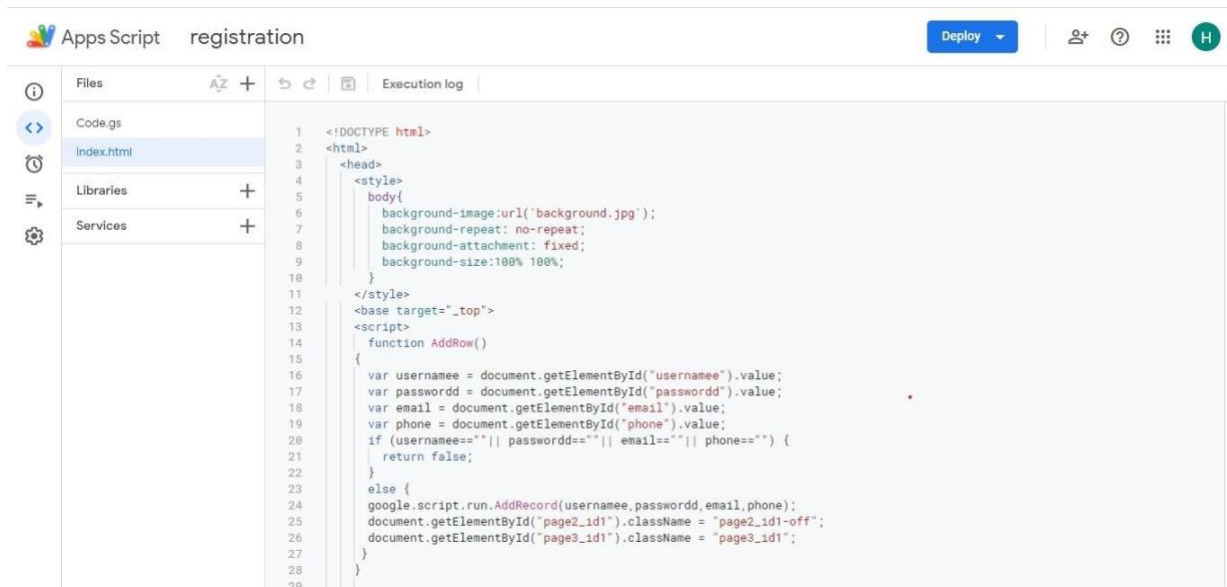

REGISTRATION AND LOGIN FORM:

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:

	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					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

CIRCUIT DIAGRAM:
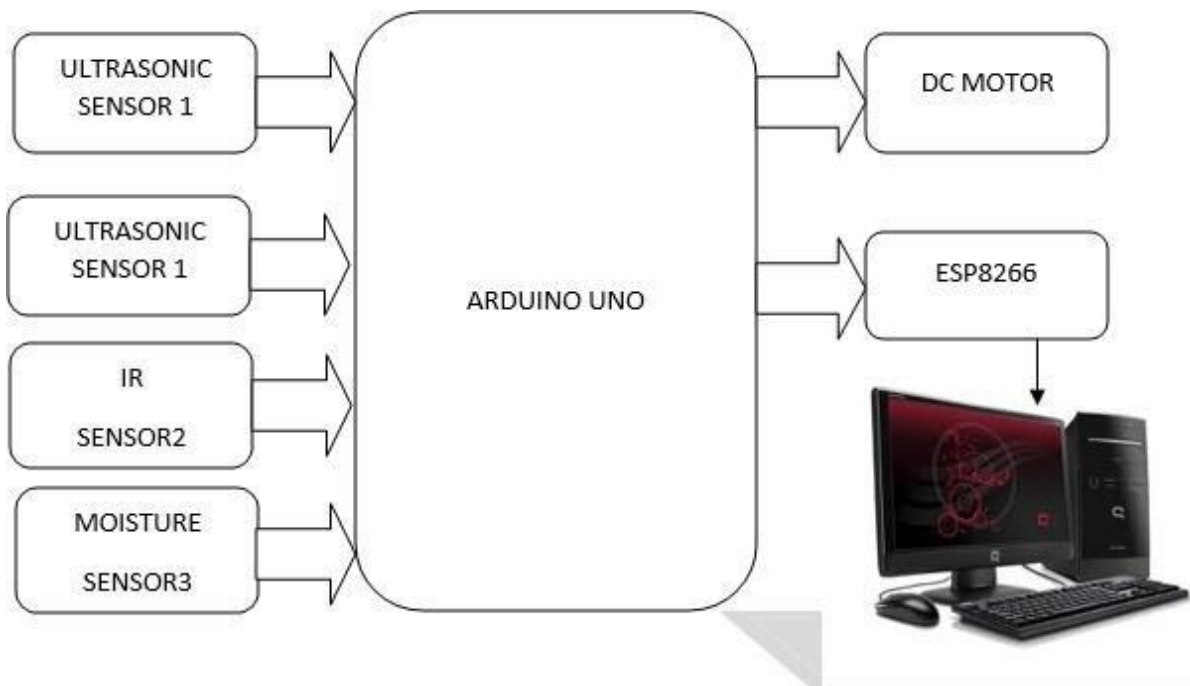
IBM CLOUD REGISTRATION:
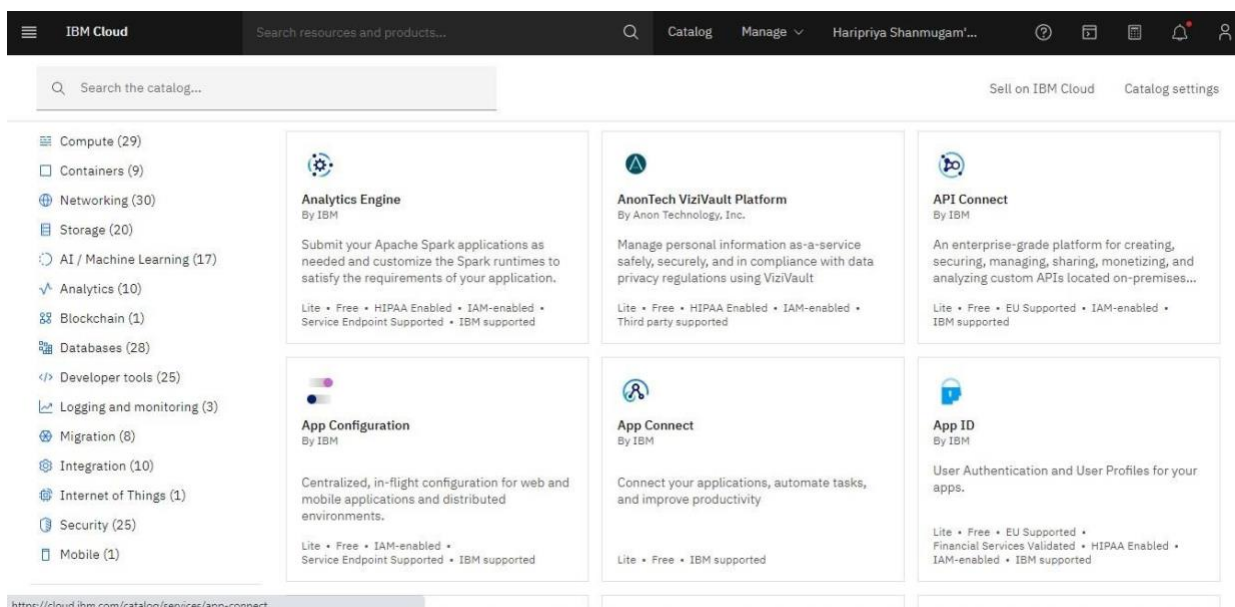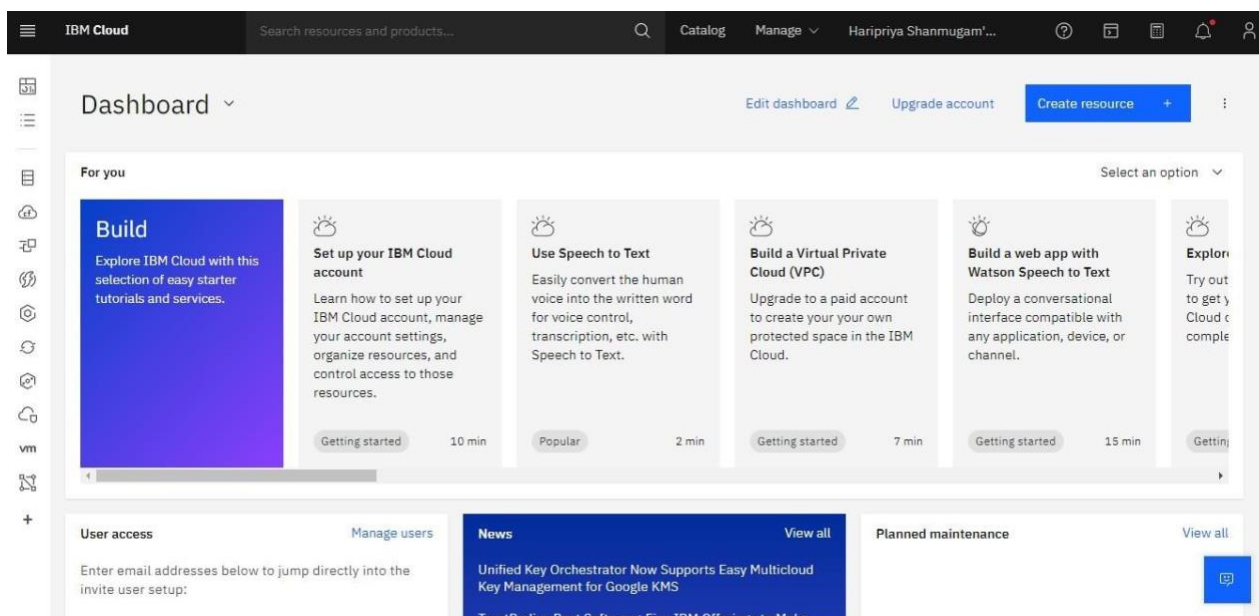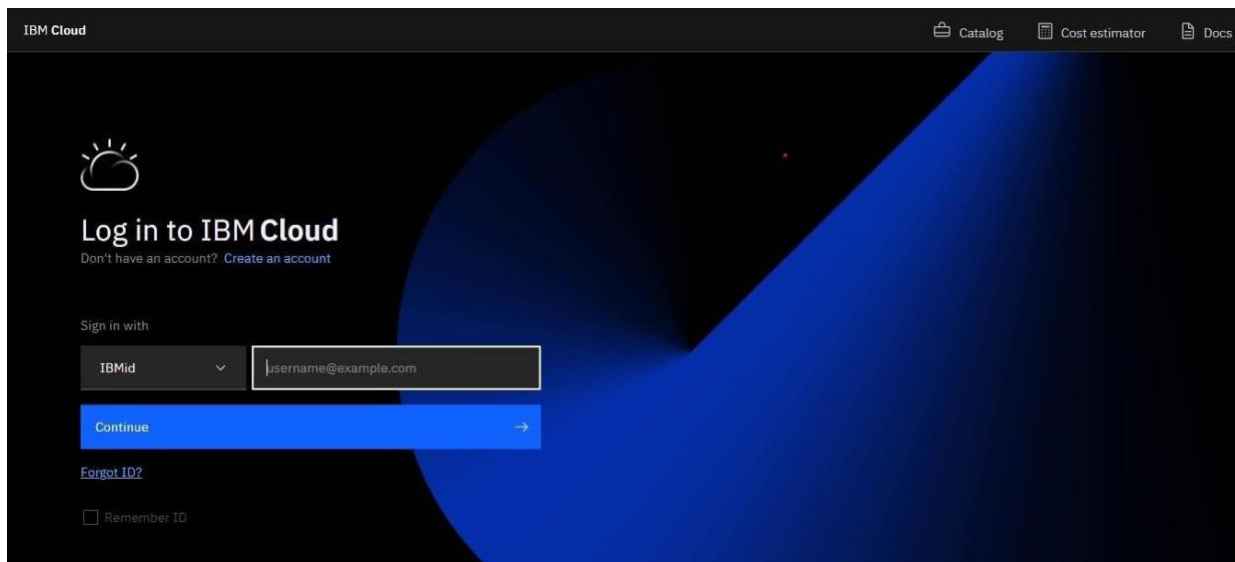
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Service

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Robin.io

Last updated
10/11/2022

Category
Storage

Compliance
IAM-enabled

Location
Frankfurt
Dallas

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Cloud Native Storage and Data Service   Estimate costs
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Plan: Hourly Pay-as-you-go
Service name: Cloud Native Storage and Data Service-4s

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