

SPRINT- 1

Date	14 November 2022
Team ID	PNT2022TMID14224
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/1Vi3NN00OANInpp5AY1Xcr7_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';
  }

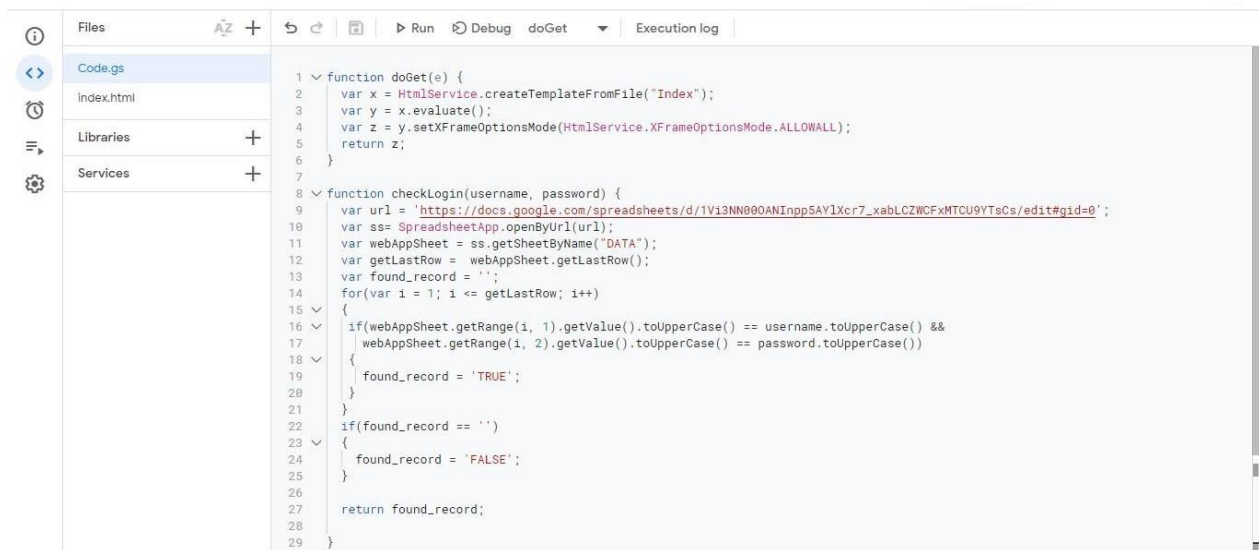
  return found_record;
}
```

```

}

function AddRecord(usernamee, passwordd, email, phone) {
    var url = 'https://docs.google.com/spreadsheets/d/1Vi3NN000ANInpp5AYlXcr7_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);
        }
      }
    </script>
  </head>
  <body>
    <div>
      <input type="text" value="usernamee" />
      <input type="password" value="passwordd" />
      <input type="text" value="email" />
      <input type="text" value="phone" />
      <input type="button" value="Add" />
    </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>

```

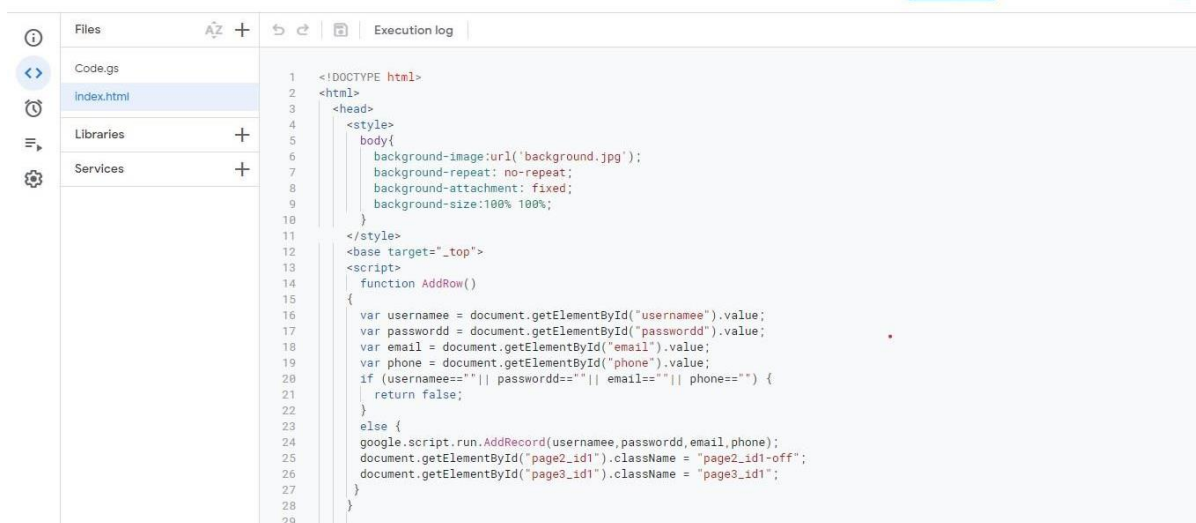
```

    <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: 0.9em;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>

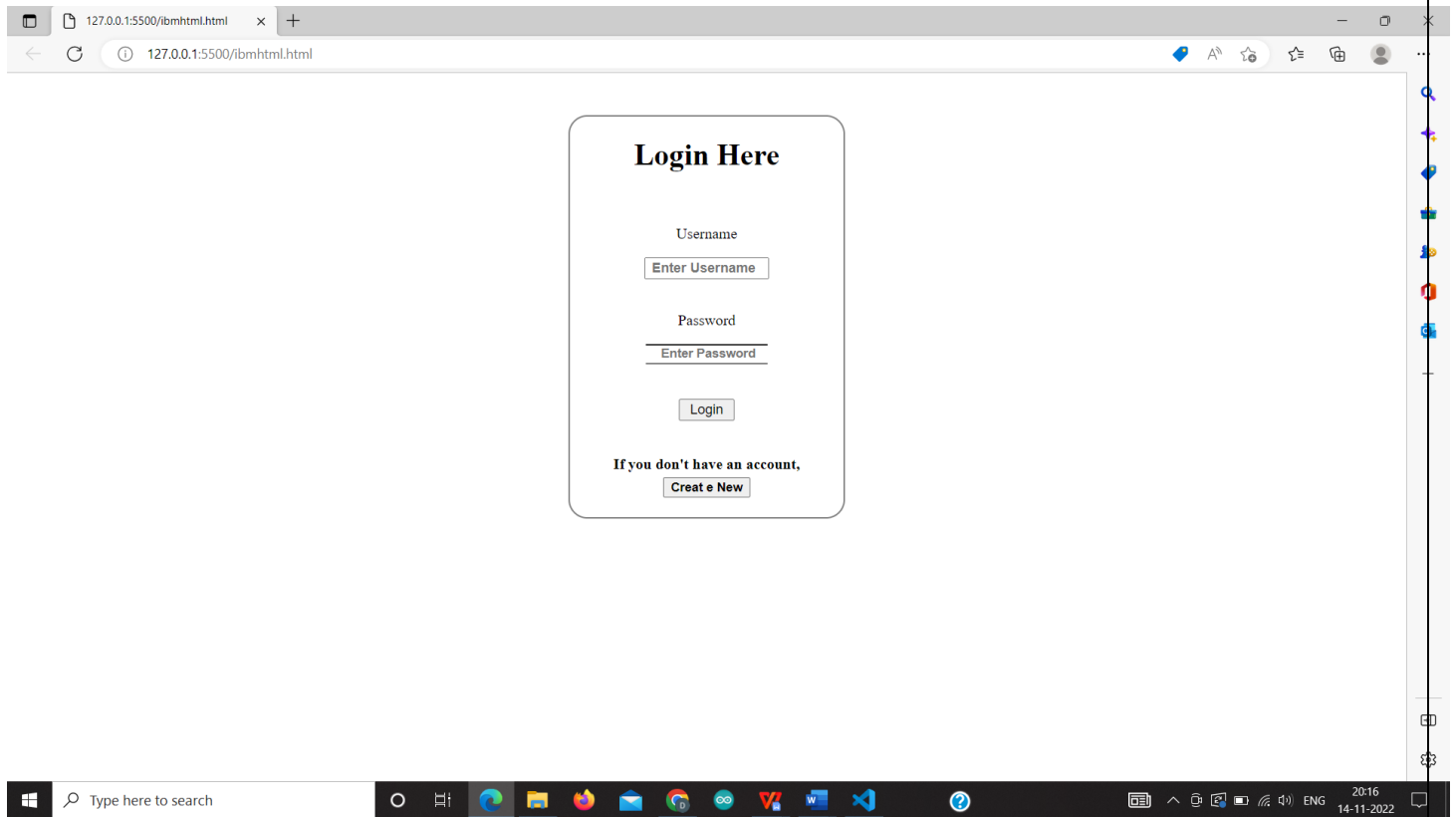
<!--page3-->
<div class="page3_class1" id="page3_id1" style="background:none;border:2px solid gray;border-radius: 20px;width: 250px;padding-top: 10px;padding-bottom: 20px;padding-left: 20px;padding-right: 20px;"><center>
    <h2> REGISTRATION SUCCESSFUL! Login to your account</h2>
    <input type="submit"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

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

```



REGISTRATION AND LOGIN FORM:



A screenshot of a web browser displaying a login form. The browser's address bar shows the URL "127.0.0.1:5500/ibmhtml.html". The login form is centered on the page and has a title "Login Here". It contains two input fields: "Username" with a placeholder "Enter Username" and "Password" with a placeholder "Enter Password". Below these fields is a "Login" button. At the bottom of the form, there is a link "If you don't have an account, Create New". The Windows taskbar is visible at the bottom of the browser window, showing the search bar and various application icons.

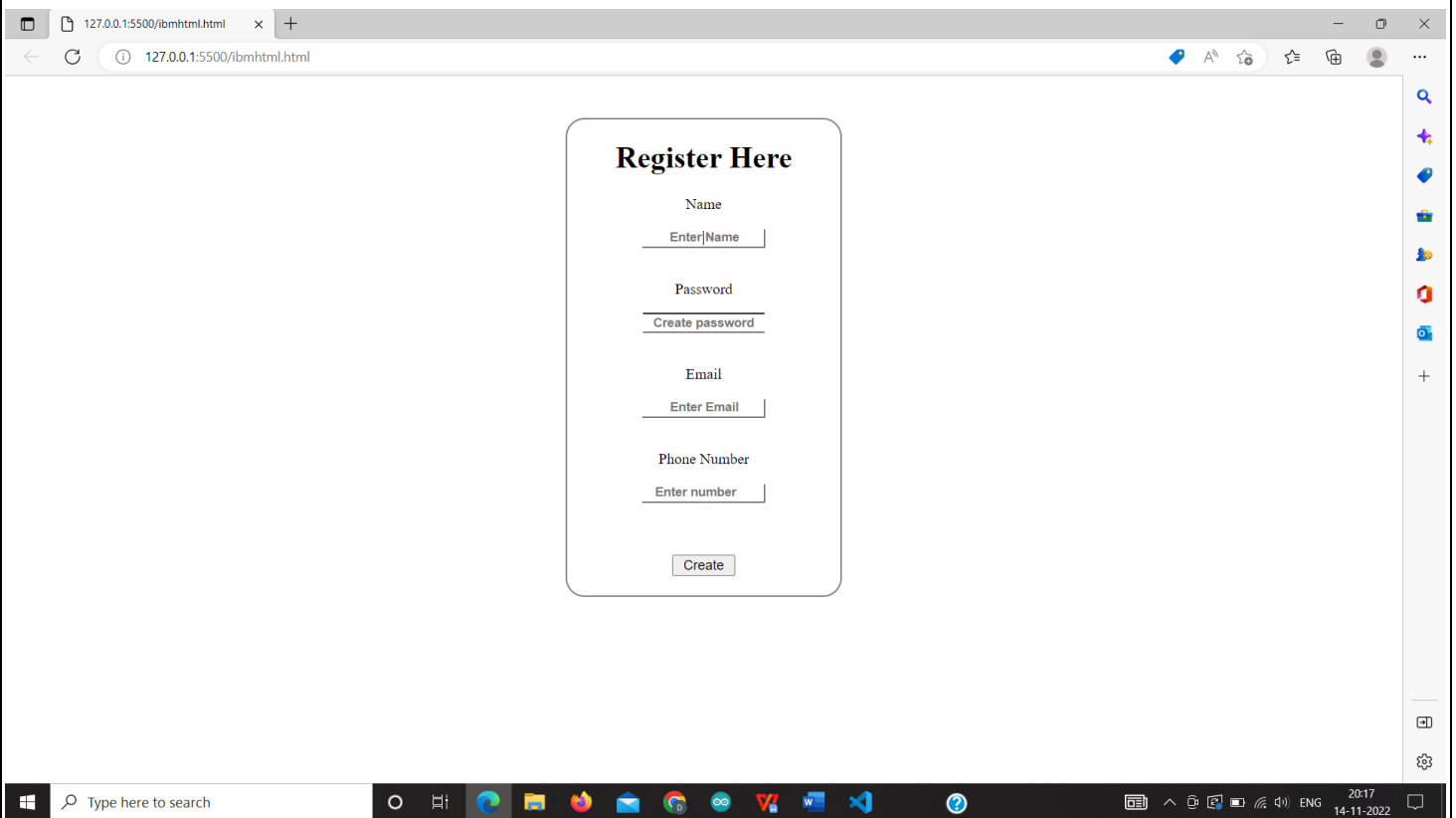
Login Here

Username
Enter Username

Password
Enter Password

Login

If you don't have an account, [Create New](#)



A screenshot of a web browser displaying a registration form. The browser's address bar shows the URL "127.0.0.1:5500/ibmhtml.html". The registration form is centered on the page and has a title "Register Here". It contains four input fields: "Name" with a placeholder "EnterName", "Password" with a placeholder "Create password", "Email" with a placeholder "Enter Email", and "Phone Number" with a placeholder "Enter number". Below these fields is a "Create" button. The Windows taskbar is visible at the bottom of the browser window, showing the search bar and various application icons.

Register Here

Name
EnterName

Password
Create password

Email
Enter Email

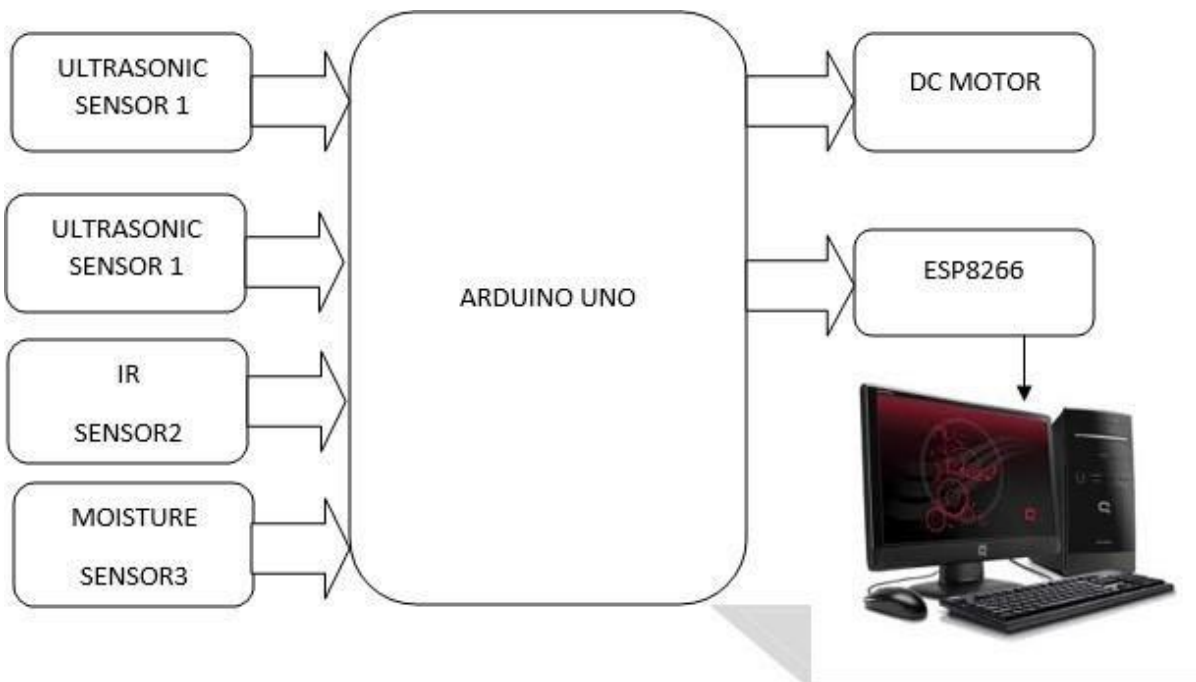
Phone Number
Enter number

Create

REGISTRATION FORM DATABASE:

1	Name	Password	Email		Phone number
2	Deepak	123456789	deepakkailasam1502@gmail.com		9360469489
3	Deepakraj	12345678912	deepakraj030302@gmail.com		9442693467
4	Barath	12345678913	barathsankar7@gmail.com		6379512806
5	Harishraj	12345678914	harishrajamani@gmail.com		8754944778
6					
7					
8					

CIRCUIT DIAGRAM:



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



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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.



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