

**Project Development Phase**  
**Project Development Delivery of Sprint 4**

Team ID	PNT2022TMID17220
Project Name	Signs with smart connectivity for Better road safety
Marks	8 Marks

## Signs with smart connectivity for Better road safety

### Objective :

- >> To replace the static signboards, smart connected sign boards are used.

>> These smart connected sign boards get the speed limitations from a web app using weather API and update automatically.

>> Based on the weather changes the speed may increase or decrease.

>> Based on the traffic and fatal situations the diversion signs are displayed.

>> Guide(Schools), Warning and Service(Hospitals, Restaurant) signs are also displayed accordingly.

>> Different modes of operations can be selected with the help of buttons.

### Code for Registration and Login Credentials :

( index.html )

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body
      {
        background-image : url('https://img.freepik.com/premium-vector/lilac-abstract-
background_126980-527.jpg?w=996');
        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-vygyh-2022-11-04.au-
syd.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="Invaliddata";
        }
    }).checkLogin(username,password);
}
function function1()
{
    document.getElementById("page1_id1").className="page1_class1-off";
    document.getElementById("page2_id1").className="page2_id1";
}
function function2()
{
    document.getElementById("page2_id1").className="page2_id1-off";
    document.getElementById("page3_id1").className="page3_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 solidblack;
}
input[type=number] : hover
{
    border-bottom : 2px solidblack;
}
input[type=password] : hover
{
    border-bottom : 2px solidblack;
}
</style>
<meta name="viewport" content="width=device-width,initial-scale=1.0">
</head>
<body><center><h1>Signs with smart connectivity for better road safety</h1>
</center><br><br>
<!--page1-->
<center>
    <div class="page1_class1" id="page1_id1" style="background-image:
url('https://media.istockphoto.com/id/1302561463/photo/holographic-iridescent-background-unicorn-
colorful-rainbow-foil-abstract-beautiful-
rainbow.jpg?b=1&s=170667a&w=0&k=20&c=BXHTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sx1JNE=');border:1px solid
gray;border-radius: 20px;width: 250px;padding-top:10px;padding-bottom: 20px;padding-
left:20px;padding-right: 20px;">
        <h1>Login</h1>
        <input type="text" id="username" placeholder=" Enter the Username" style=";outline:
none;border-top: none;border-right: none;border-left: none;font-align:centre;text-transform:
none;font:monospace;font-size:1.2em ;border-bottom: .2rem solid rgba(222, 214, 223, 0.3);margin:1rem
0;height:2rem;font:monospace;width:90%;"/><br>
        <input type="password" id="password" placeholder=" Enter the Password" style="border-top:
none;font-align:centre;border-right: none;border-left: none;margin:1rem 0; height:2rem;font-size:
1.2rem;border-bottom: .2rem solid rgba(222, 214, 223, 0.3);text-transform: none; outline:
none;font:monospace;width:90%;"/>
        <br><span id="errorMessage" style="color:red"></span><br>
        <input type="submit" class="button" value="Login" onClick="LoginUser()" style="float:
centre;padding-top: 1px;padding-bottom: 1px;padding-left: 10px;padding-right: 10px;font-size:
1.2em;"/><br><br><br>
        <b>If you don't have an account.,</b>
        <input type="button" onClick="function1()" value="Register" style="margin-top:10px;font-
weight:bold;"/>
    </div>
    <!--page2-->
    <div class="page2_class1" id="page2_id1" style="background-image:
url('https://media.istockphoto.com/id/1302561463/photo/holographic-iridescent-background-unicorn-
colorful-rainbow-foil-abstract-beautiful-
rainbow.jpg?b=1&s=170667a&w=0&k=20&c=BXHTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sx1JNE=');border:1px
solid gray;border-radius: 20px;width: 250px;padding-top:10px;padding-bottom: 20px;padding-
left:20px;padding-right: 20px;">
        <h1>Register</h1>
        <input type="text" id="usernamee" placeholder=" Enter the Name" style=";outline:
none;border-top: none;border-right: none;border-left: none;font-align:centre;text-transform:
none;font:monospace;font-size:1.2em ;border-bottom: .2rem solid rgba(222, 214, 223,
0.3);margin:1rem 0;height:2rem;font:monospace;width:90%;"/><br>
        <input type="password" id="passwordd" placeholder=" Enter the Password"
style=";outline: none;border-top: none;border-right: none;border-left: none;font-align:centre;text-
transform: none;font:monospace;font-size:1.2em ;border-bottom: .2rem solid rgba(222, 214, 223,
0.3);margin:1rem 0;height:2rem;font:monospace;width:90%;"/><br>

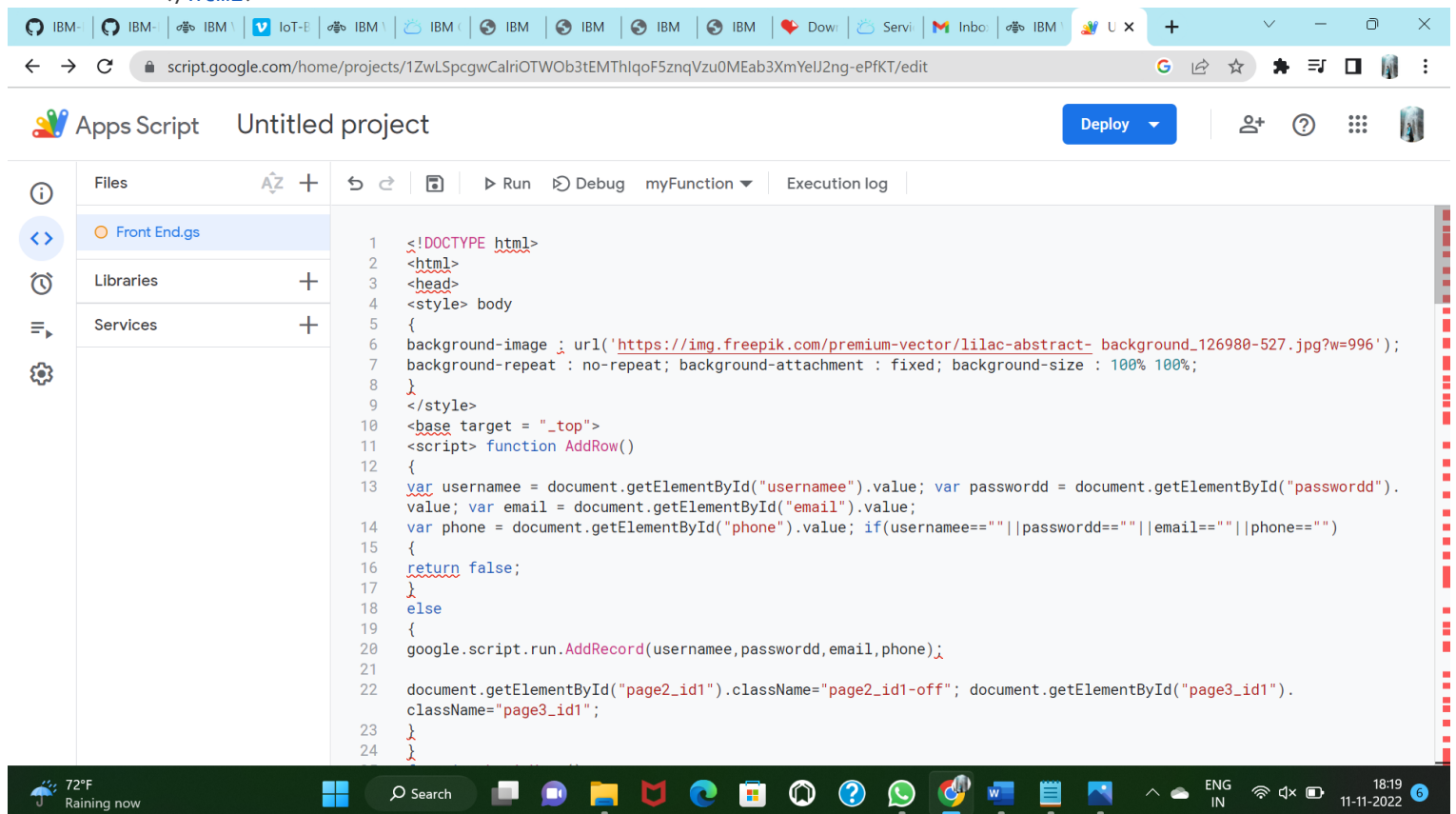
```

```

<input type="text" id="email" placeholder=" Enter the Email" style="outline:
none;border-top: none;border-right: none;border-left: none;font-align:centre;text-transform:
none;font:monospace;font-size:1.2em ;border-bottom: .2rem solid rgba(222, 214, 223,
0.3);margin:1rem 0;height:2rem;font:monospace;width:90%;"/><br><br>
<input type="submit" value="Create" onClick="function2()" style="float:
centre;padding-top: 1px;padding-bottom: 1px;padding-left: 10px;padding-right: 10px;font-size:
1.2em;"/><br><br>
</div>

<!--page3-->
<div class="page3_class1" id="page3_id1" style="background-image:
url('https://media.istockphoto.com/id/1302561463/photo/holographic-iridescent-background-unicorn-
colorful-rainbow-foil-abstract-beautiful-
rainbow.jpg?b=1&s=170667a&w=0&k=20&c=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sx1JNE=');border:1px
solid gray;border-radius: 20px;width: 250px;padding-top:10px;padding-bottom: 20px;padding-
left:20px;padding-right: 20px;">
<center><h2>Thank you for registered !!<br><br></h2></center>
<input type="submit" onClick="function3()" value="Login" style="float:
centre;padding-top: 1px;padding-bottom: 1px;padding-left: 10px;padding-right: 10px;font-size:
1.2em;"><br><br>
</div>
</center>
</body>
</html>

```



## ( Code.gs )

```

function doGet(e)
{
    var x = HtmlService.createTemplateFromFile("index.html");
    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/1IB2nLiYrCbq71P047pnyj9_zDXDoRsIhBEeY74aQl0o/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/1IB2nLiYrCbq71P047pnyj9_zDXDoRsIhBEeY74aQl0o/edit#gid=0';
    var ss = SpreadsheetApp.openByUrl(url);
    var webAppSheet = ss.getSheetByName("DATA");
    webAppSheet.appendRow([usernamee,passwordd,email,phone]);
}

```

The screenshot displays a Google Apps Script editor window titled "Untitled project". The editor contains a JavaScript script for a login system. The script defines a `doGet` function for the initial page load and a `checkLogin` function that interacts with a Google Sheet to verify user credentials. The `checkLogin` function uses the `SpreadsheetApp` API to open a spreadsheet, retrieve the 'DATA' sheet, and iterate through rows to find a matching username and password. If a match is found, it sets `found\_record` to 'TRUE'; otherwise, it remains 'FALSE'.

Below the script editor, a web browser window is visible, showing the Google Apps Script interface. The browser's address bar displays the URL: `script.google.com/home/projects/1qC9BWQ0Th_V_Sv-iBaJim2xPd7UysBJu5bT23WZryu58r88l7hAlXINU/edit`. The browser window shows the same script editor interface, including the "Files" sidebar with "Code.gs" and the "Execution log" tab.

The bottom of the image shows a Windows taskbar with various application icons, including the Start button, Search, File Explorer, Microsoft Edge, and others. The system tray indicates the temperature is 72°F, it is raining, and the time is 18:23 on 11-11-2022.

## Registration and Login Form :

### Signs with smart connectivity for better road safety

#### Login

If you don't have an account.,

### Signs with smart connectivity for better road safety

#### Register



## Signs with smart connectivity for better road safety

**Thank you for  
registered !!**

Login