Team ID	
	PNT2022TMID09823
Project Name	Signs with smart connectivity for Better road safety
Marks	8 Marks

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)

```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=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="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
```

```html
    { 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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sxlJNE=');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><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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sxlJNE=');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><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:
```
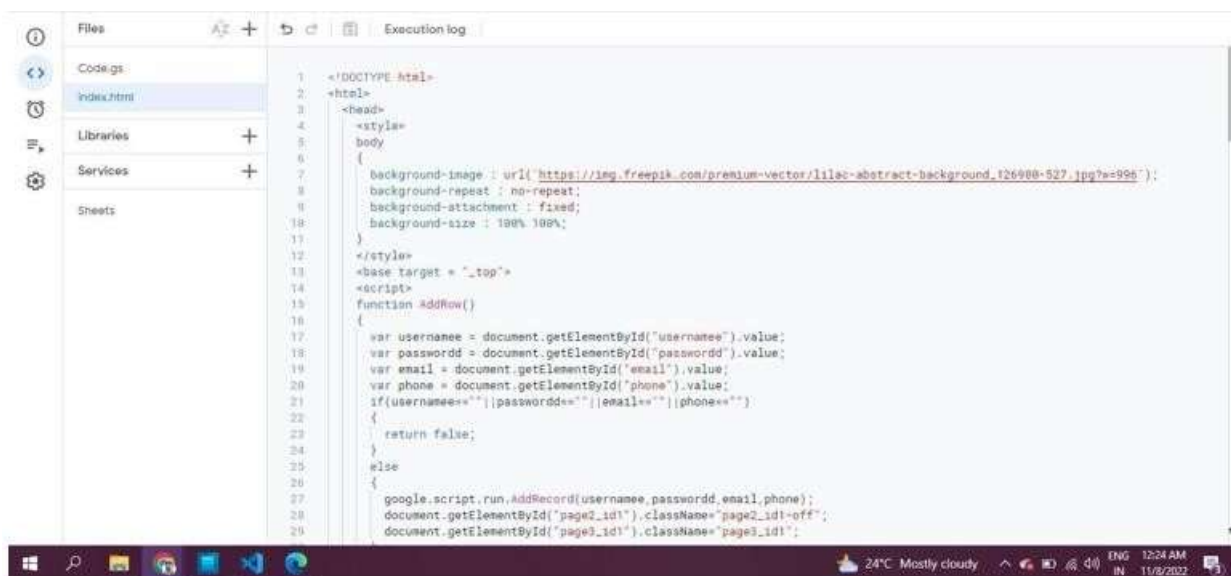
```
1.2em;"/><br><br>
            </div>


            <!--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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5ehhN5sxlJNE=');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() &&
```
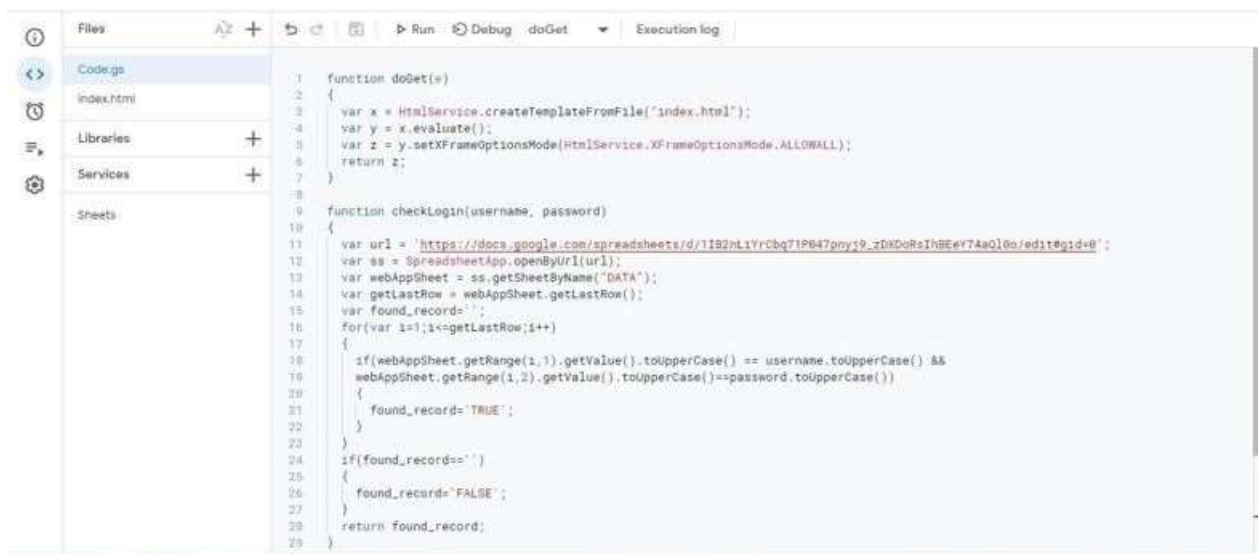
```
    webAppSheet.getRange(i,2).getValue().toUpperCase()==password.toUpperCase())
    {
      found_record='TRUE'
      ;
    }
  }
  if(found_record=='')
  { found_record='FALSE';
  }
  return found_record;
}

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]);
}
```


Registration and Login Form:

Signs with smart connectivity for better road safety

Login

Enter the Username

Enter the Password

Login

If you don't have an account.,

Register

Signs with smart connectivity for better road safety

Register

Enter the Name

Enter the Password

Enter the Email

Create

Signs with smart connectivity for better road safety

Thank you for registered !!

Login

Signs with smart connectivity for better road safety