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)

```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);
```

```javascript
      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;
}
```

```html
    .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=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>
```

```html
                <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)

```javascript
 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

Thank you for registered !!

Login