Project Development Phase

Delivery of Sprint 4

Project Id	PNT2022TMID05398
Project Name	Signs with Smart Connectivity for Better Road Safety
Team Leader	Yuvaraj P
Team Members	Sudharsan K Vasudev SP Suriya Narayanan G
Maximum Marks	8 Marks

Objective :

Signs with smart connectivity for Better road safety

>> 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()
```

```javascript
{
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;
}
```

```css
.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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5eh
hN5sxlJNE=');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>
```

```html
<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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5eh
hN5sxlJNE=');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=BXTMLyLQNIqvm2od1KerrL5hPVHbjBf5eh
hN5sxlJNE=');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)
{
```
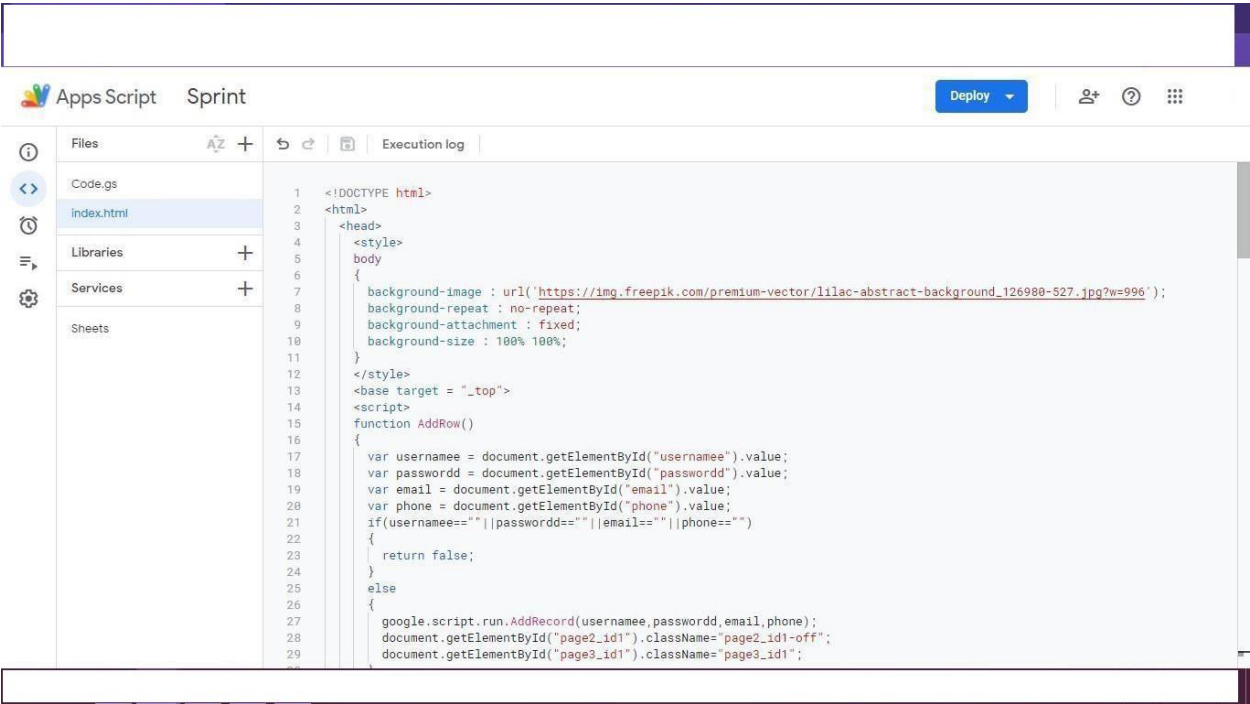
```
1    <!DOCTYPE html>
2    <html>
3      <head>
4        <style>
5        body
6        {
7          background-image : url('https://img.freepik.com/premium-vector/lilac-abstract-background_126980-527.jpg?w=996');
8          background-repeat : no-repeat;
9          background-attachment : fixed;
10         background-size : 100% 100%;
11       }
12       </style>
13       <base target = "_top">
14       <script>
15       function AddRow()
16       {
17         var usernamee = document.getElementById("usernamee").value;
18         var passwordd = document.getElementById("passwordd").value;
19         var email = document.getElementById("email").value;
20         var phone = document.getElementById("phone").value;
21         if(usernamee==""||passwordd==""||email==""||phone=="")
22         {
23           return false;
24         }
25         else
26         {
27           google.script.run.AddRecord(usernamee,passwordd,email,phone);
28           document.getElementById("page2_id1").className="page2_id1-off";
29           document.getElementById("page3_id1").className="page3_id1";
```
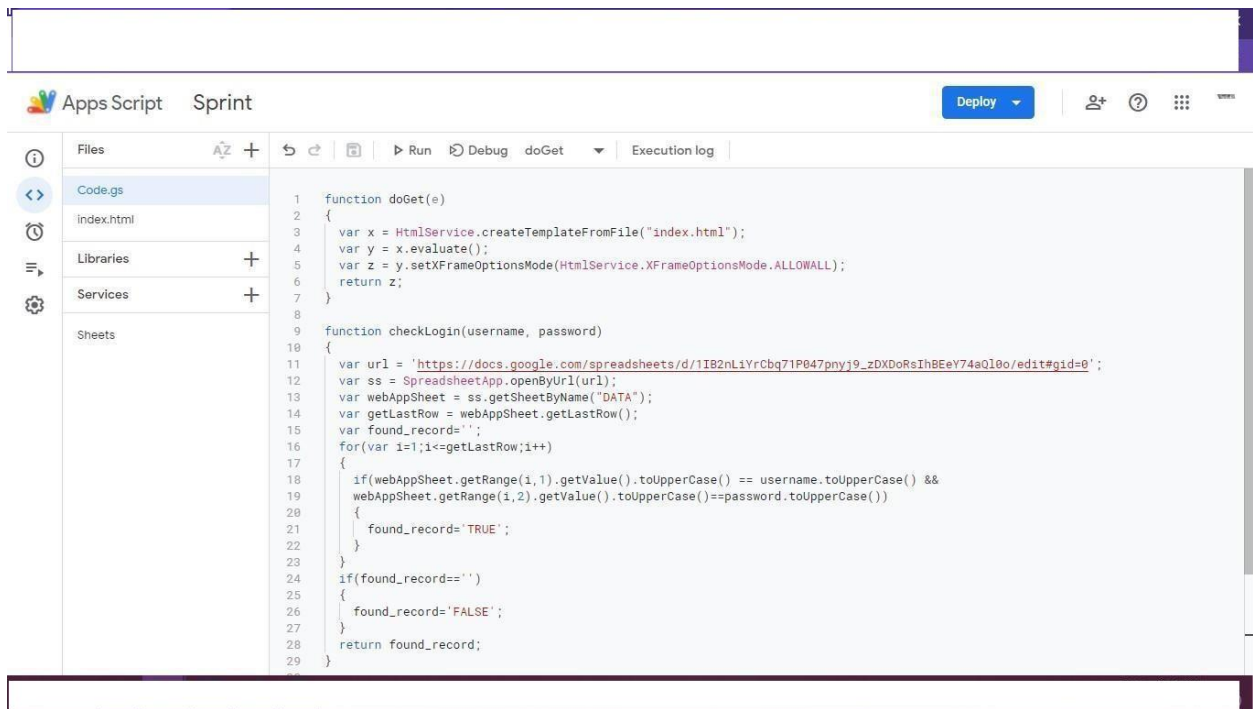
(Code.gs)

```
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/1IB2nLiYrCbq71P047pn
yj9_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/1IB2nLiYrCbq71P047pn
yj9_zDXDoRsIhBEeY74aQl0o/edit#gid=0';
var ss = SpreadsheetApp.openByUrl(url);
var webAppSheet = ss.getSheetByName("DATA");
webAppSheet.appendRow([usernamee,passwordd,email,phone]);
```
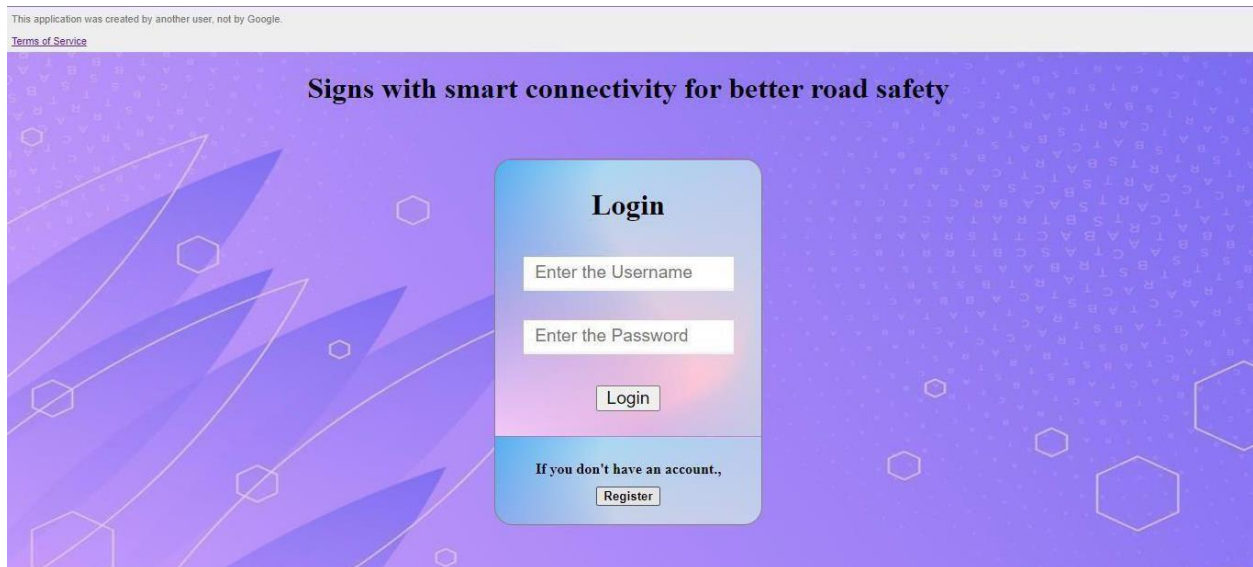
```
function doGet(e)
{
  var x = HtmlService.createTemplateFromFile("index.html");
  var y = x.evaluate();
  var z = y.setXFrameOptionsMode(HtmlService.XFrameOptionsMode.ALLOWALL);
  return z;
}

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;
}
```

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