Project Development PhaseSprint II

Date	13 November 2022			
Team ID	PNT2022TMID35583			
Project Name	Signs with Smart Connectivity for better road safety			

SPRINT TARGETS:

Sprint	Functional Requirement (Epic)	UserStory Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Connection		Connecting with open weather API	20	Medium	Anusuya Hemananthini Meghaa Pragathii
Sprint -2	Cost	Usn-5	As we are reducing sensors , it reduces the cost for the user			Anusuya Hemananthini Meghaa Pragathii

CODE:

```
#include <SPI.h>
#include<WiFi.h>
const char* ssid = "Wokwi-GUEST";
const char* pass = "";
//open weather map api key
String apiKey= "2433516c3d8cf727338deab79e2ea38d";
//the city you want the weather for
String location="torino,IT";
int status = WL_IDLE_STATUS;
char server[] = "api.openweathermap.org";
WiFiClient client;
void setup(){
 Serial.begin(115200);
 WiFi.begin(ssid, pass);
 while(WiFi.status() != WL CONNECTED){
  delay(100);
  Serial.println(".");
 Serial.println("WiFi Connected!");
 Serial.println(WiFi.localIP());
```

```
void loop(){
getWeather();
delay(10000);
void getWeather() {
Serial.println("\nStarting connection to server...");
// if you get a connection, report back via serial:
if (client.connect(server, 80)) {
 Serial.println("connected to server");
 // Make a HTTP request:
 client.print("GET/data/2.5/forecast?");
 client.print("q="+location);
 client.print("&appid="+apiKey);
 client.print("&cnt=3");
 client.println("&units=metric");
 client.println("Host:api.openweathermap.org");
 client.println("Connection: close");
 client.println();
} else {
 Serial.println("unable to connect");
delay(1000);
String line = "";
while (client.connected()) {
 line = client.readStringUntil('\n');
 Serial.println(line);
```

