

Sprint Code

Date	16 Nov 2022
Team ID	PNT2022TMID47541
Project name	IOT Based Smart Crop Protection System for Agriculture

Code

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WOKWI SAVE SHARE
esp32-ili9341-hello.ino diagram.json libraries.txt Library Manager
177
178 int analogValue = analogRead(temperaturepin);
179 float celsius = 1 / (log(1 / (1023. / analogValue - 1)) / BETA + 1.0 / 298.15) - 273.15;
180 if(celsius>10 && celsius<=30)
181 {
182     tft.fillScreen(ILI9341_BLACK);
183     tft.setTextColor(ILI9341_RED);
184     tft.setTextSize(3);
185     tft.setCursor(20, 120);
186     tft.print(celsius);
187     tft.print(" Celsius");
188     tft.setTextColor(ILI9341_GREEN);
189     tft.print(" Normal Rain");
190     payload += "\\Rain_Sensor\\:";
191     payload += "\\Normal Rain\\:";
192     payload += ":";
193 }
194 else if(celsius>30 && celsius<=50)
195 {
196     tft.fillScreen(ILI9341_BLACK);
197     tft.setTextColor(ILI9341_RED);
198     tft.setTextSize(3);
199     tft.setCursor(20, 120);
200     tft.print(celsius);
201     tft.print(" Celsius");
202     tft.setTextColor(ILI9341_GREEN);
203     tft.print(" Drizzling");
204     payload += "\\Rain_Sensor\\:";
205     payload += "\\Drizzling\\:";
206     payload += ":";
207 }
208 else if(celsius<=10)
209 {
210     tft.fillScreen(ILI9341_BLACK);
211     tft.setTextColor(ILI9341_RED);
212     tft.setTextSize(3);
213     tft.setCursor(20, 120);
214     tft.print(celsius);
215     tft.print(" Celsius");
216     tft.setTextColor(ILI9341_GREEN);
217     tft.print(" Heavy Rain");
218     payload += "\\Rain_Sensor\\:";
219     payload += "\\Heavy Rain\\:";
220     payload += ":";
221 }
222 else
223 {
224     tft.fillScreen(ILI9341_BLACK);
225     tft.setTextColor(ILI9341_RED);
226     tft.setTextSize(3);
227     tft.setCursor(20, 120);
228     tft.print(celsius);
229     tft.print(" Celsius");
230     tft.setTextColor(ILI9341_GREEN);
231     tft.print(" No Rain");
232     payload += "\\Rain_Sensor\\:";
233     payload += "\\No Rain\\:";
234     payload += ":";
235 }
236 publish(payload);
237 //delay(100);
238 }
239 void mqttconnect() {
240     if (!client.connected()) {
241         Serial.println("Reconnecting client to ");
242         Serial.println(server);
243     }
244 }
```