Project Report

Project Name

Ardunio Wireless Wheater Station

Purpose of Project

measuring the humidity, temperature in air and show the time with date in two different places

Method

Firstly We met on Discord with crew. We ordered pieces on Internet .We divided two part the project. These are indoor and outdoor. . When arrived the pieces to us, We began to project together. First we assembled the pieces through schema of project.

Firstly we should complete circuits. We tried merge the pieces with cables. It was diffucult when we begin. Then we quickly assembled the cables to pieces. We have 2 wireless piece(NRF24L01), 2 humidity sensors(DHT11 and DHT22), screen(0.97 OLED), timer(DS3231 RTC), Ardunio Uno and Nano as main pieces . We use a Power Switch and a Laptop for power source. When we finished cable connections in circuits, we examined the code. Firstly we should fix code for DHT11 and DHT22 because of different pieces each other. We fixed errors in code step by step. Then We examined the screen code and this part took many times from us. Screen worked but memory of circuit waswasn’t enough for our output. When we deleted a library in code, we fixed this problem. When we deleted a library in code, we fixed this problem but screen was showing the values quickly. We changed the time code as to be show per 2 seconds. Finally left the timer. We put a time and a date as string value. Then when we inserted a battery to timer, time and date were work correctly. Circuit and code processes are done.

Our circuits(indoor and outdoor) worked as seamless. Finally we made outside of circuits. We found two small cardboards. We cut the cardboards for a few hole. When we finished process of cut, We painted the cardboards with grey spray. We assembled the circuits in cardboards with bands. Finally we tried again for there is any problem. There isn’t any problem. Our project worked as seamless and project finished.

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