

MISFITS

COVID CARE

Reimagining the health checkup procedures in post covid era

Our inspiration for this project

MISFITS

As the world will reopen after the pandemic, there will be a necessity to follow the covid SOP in public places and the need for a one-stop solution for checking all the vitals will surge. Our project COVID CARE was made to serve this need. It focuses on providing maximum services to track the health of a person and maintain a database of the health of people checking in a public place.





COVID CARE : What it does

01

Provides an instant report of a person's pulse rate, oxygen levels and body temperature.

02

Access your health records at a public check-in on mobile app.

03

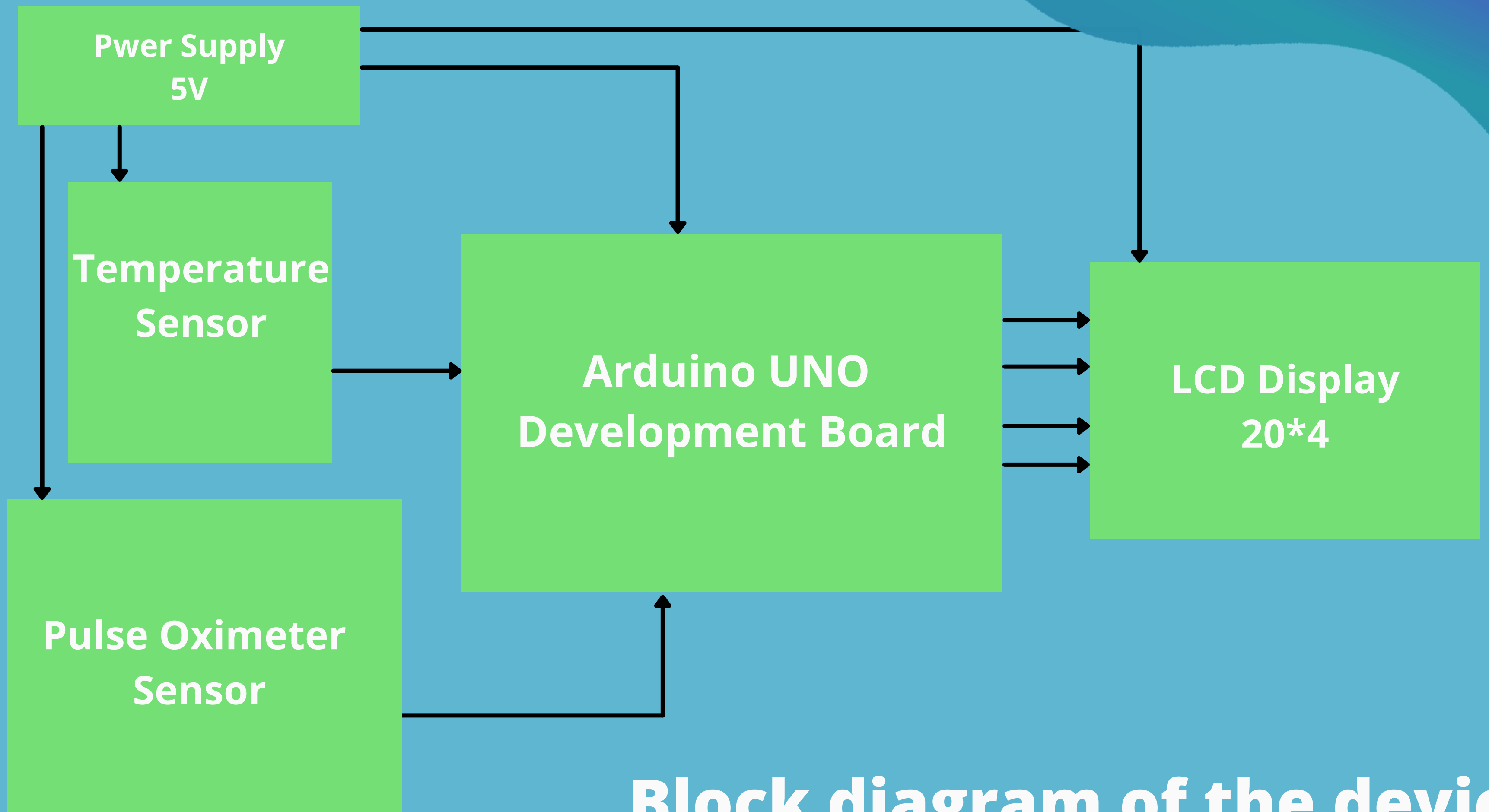
Maintains a database of the health of all the people checking in at a public place.

04

Sends alert in case of adverse changes in health parameters

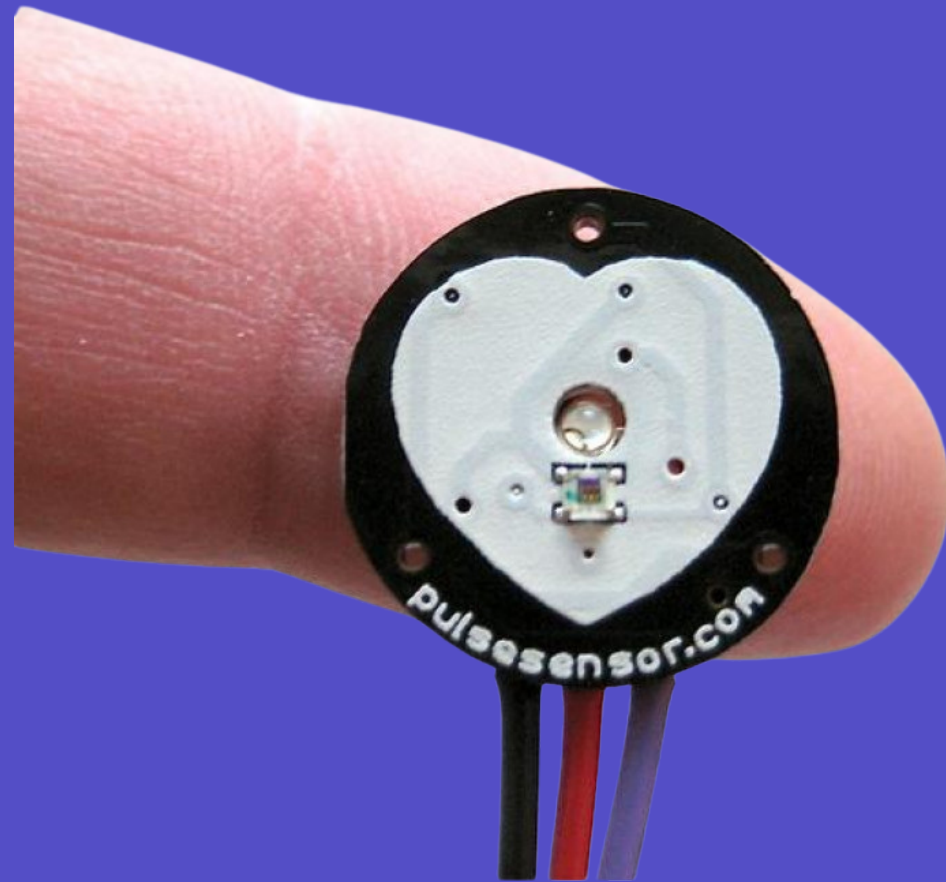
05

The user of the mobile app can also add health records.

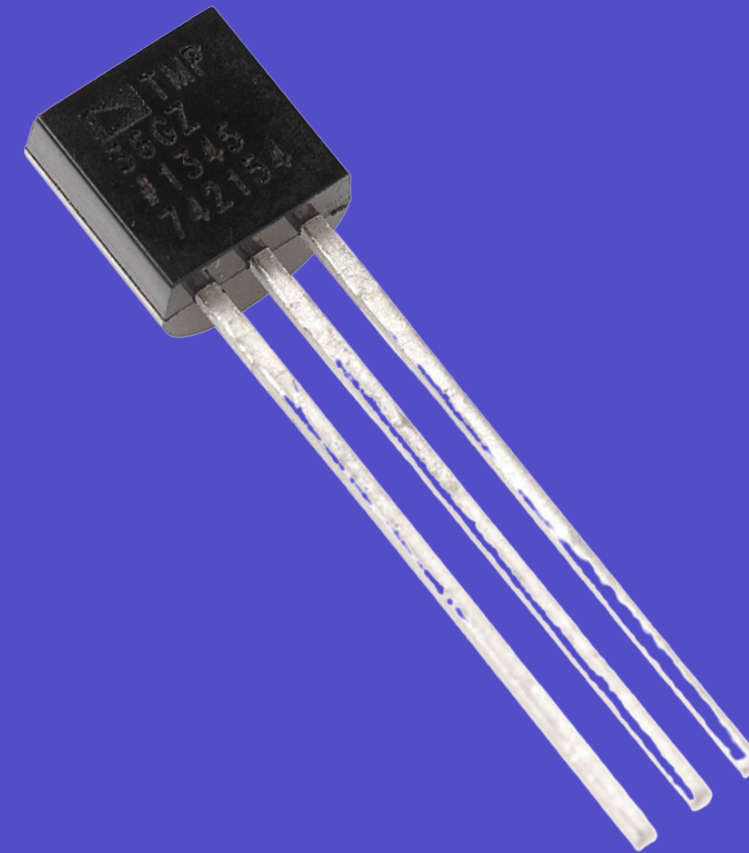


Block diagram of the device

Sensors used to detect vitals in Proteus



Pulse sensor



Temperature Sensor
(Tmp36)

Note: Here we have used a pulse sensor instead of a pulse oximeter sensor, because library of the pulse oximeter sensor for proteus and other softwares was not available.

Future Aspects of Hardware Implementation



In real life scenario we will be using MAX 30100 pulse oximeter sensor module. It's an optical sensor that derives its readings from emitting two wavelengths of light from two LEDs – a red and an infrared one – then measuring the absorbance of pulsing blood through a photodetector. This particular LED color combination is optimized for reading the data through the tip of one's finger. The signal is processed by a low-noise analog signal processing unit and communicated to the target MCU through the mikroBUS I2C interface.

What's next for COVID CARE

01

UI/UX designs of mobile app with accessibility features for specially abled

02

Integration with fitness apps and devices like Fitbit

03

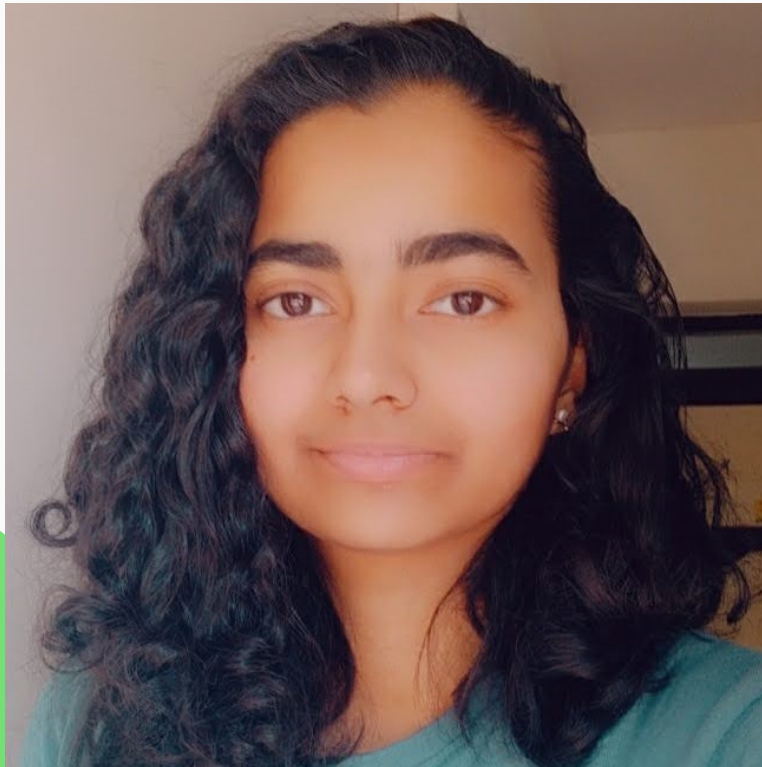
Adding Wi-fi and Bluetooth functionality in device to connect with mobile app

04

Using pulse oximeter sensor instead of pulse sensor in hardware part

Our team

Shivakshi Sheel
Srivastava



Priyanshi
Chandra



Nishi Sharma



Nisha Prakash



https://github.com/nishisharma311/Covid_Care

MISFITS

Thank you