

ANDROID BASED PATIENT HEALTH MONITORING WITH BLUETOOTH

AIM:

Design and Development of Android based patient health monitoring with Bluetooth.

PURPOSE:

Health monitoring devices are very important in hospitals. Especially in Covid situation, everyone uses these devices. Integrating these devices to android Application will gives us additional advantage. Doctors can monitor health parameters from remote places. It works like touch less monitor. Here we propose solution like Android based patient health monitoring with Bluetooth.

DESCRIPTION:

This project includes Bluetooth (HC-05) module, which is connected to Arduino through UART interface. SPO2 sensor interfaced to Arduino I2C port. LM35 connected to Arduino analog pin.

WORKING:

Here we can monitor Temperature, Heartbeat and Blood oxygen parameters of patient. With the help of Bluetooth we can monitor these parameters in android application. Here Bluetooth application is customized and worked in android smart phones. Patient health parameters displayed on 16X2 LCD display.

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller	:	Arduino Uno
Crystal	:	16 MHz
LCD	:	16X2 LCD
Bluetooth	:	HC-05
Heart Beat and		
Blood Oxygen SPO2	:	MAX30100/11
Temperature Sensor	:	LM35
Power Source	:	12v 2 amp Adaptor

SOFTWARE:

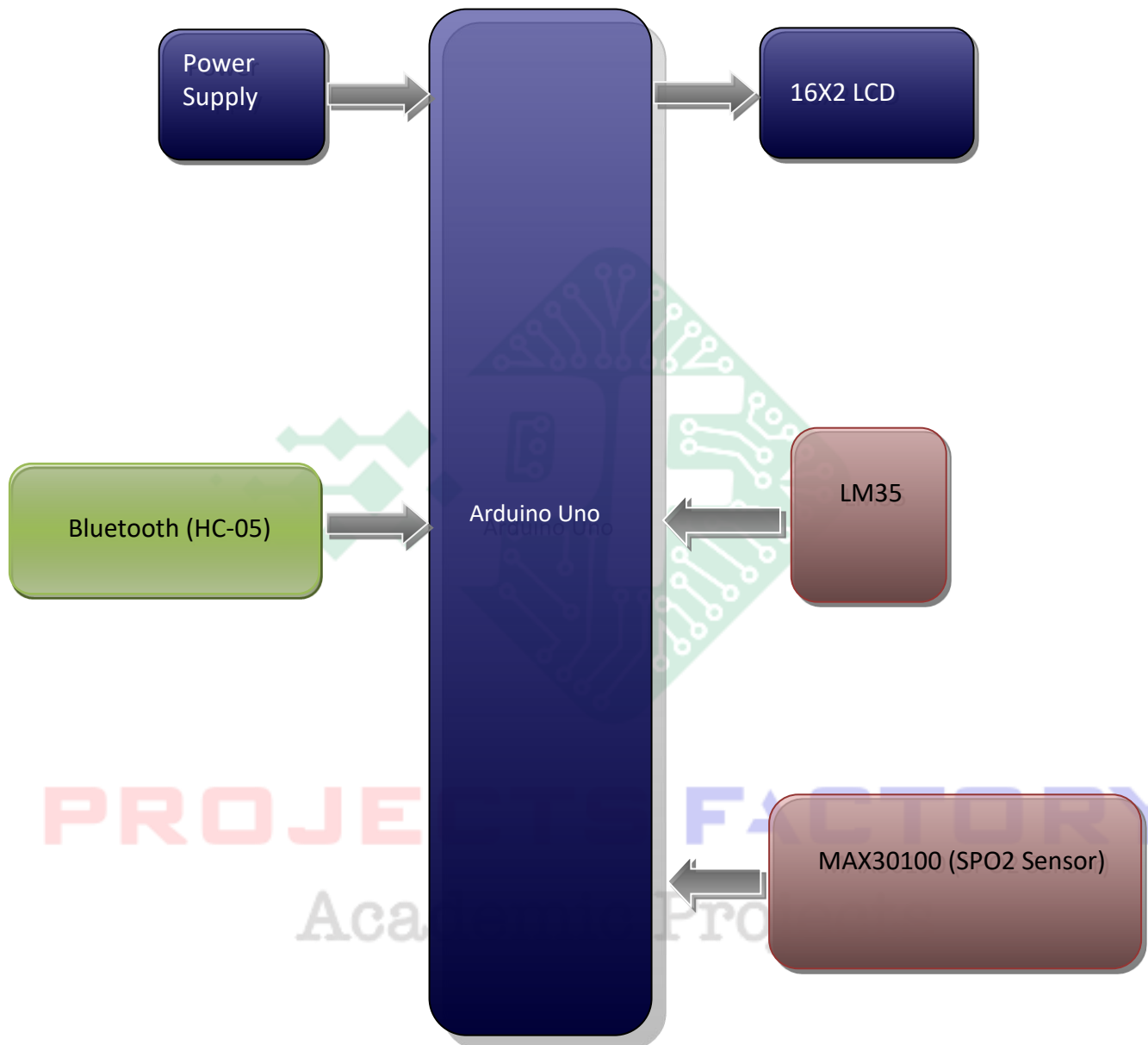
Arduino IDE
Proteus based circuit diagram

APPLICATIONS:

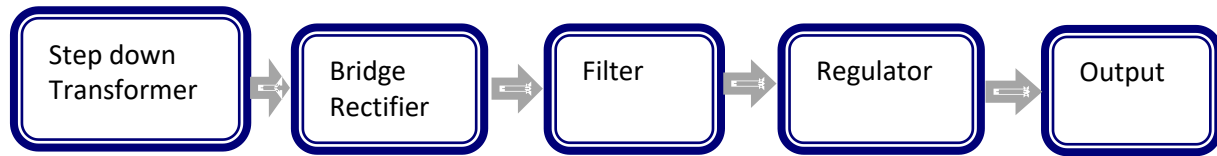
- Hospitals
- Medical Labs

PROJECTS FACTORY
Academic Projects

BLOCK DIAGRAM:



POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERED:

- We have covered Bluetooth (HC-05) module interfacing
- SPO2 sensor and LM35 sensors interfacing



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