DIY Project Group 3

Smart Home Automation System

App Based Smart Room Controlling System
DIY Team Project
IIT Kharagpur

Project

Project supervisor: Arindam Mandal

Team members:

Rounak Das   (21CE10055)
Amitabh Kumar Raj   (21AE30003)
Rishav Chakraborty   (21AG30030)
Mohit Kumar Meena (21CE10035)
Challa Naga Sujan   (21CE10015)

Work Distribution

Rounak Das   : Assembly
Rishav Chakraborty   : Assembly and Coding Part
Amitabh Kumar Raj and Challa Naga Sujan : Presentation and video editing
Mohit Kumar Meena   :   Research , Analysis Coding Part

Timeline

1st week → Research work and work distribution

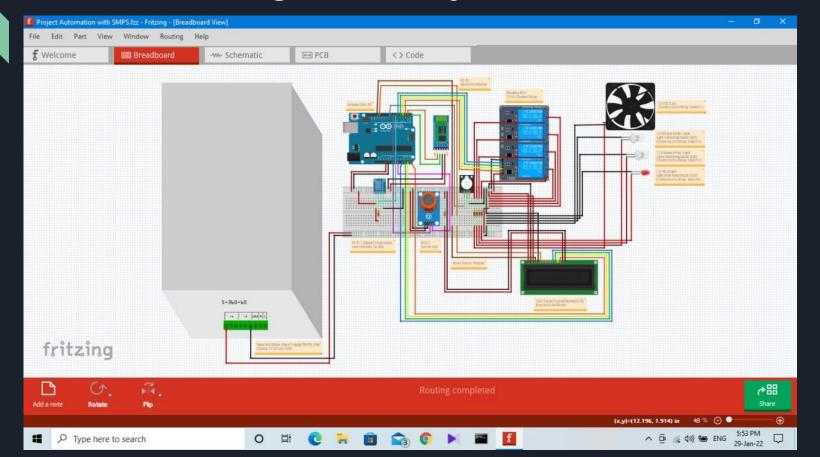2nd week → Circuit diagram and ordering parts

3rd week → Coding part

4th week → Assembly and demonstration

5th week → Final Project Submission

Components

- ❖ Arduino UNO R3
- ❖ HC-05 Bluetooth Module
- ❖ Modus RTU 4-Channel Relay Module
- ❖ 12V-8.5A, 102W Switched-Mode Power Supply
- ❖ Breadboard
- ❖ DHT11 Digital Temperature and Humidity Sensor Module
- ❖ MQ-3 Gas Sensor Module
- ❖ Active Buzzer Module
- ❖ 16x2 LCD Display
- ❖ One 12V DC Fan
- ❖ Two 12V Warm White Light LEDs
- ❖ One 12V Red LED
- ❖ Four 10Ω Resistors
- ❖ One 220Ω Resistor
- ❖ One 10 kΩ Resistor
- ❖ Some M-to-M and M-to-F Jumper Wires

Schematic Diagram Of Project

What Could be Achieved

We **can** give a decorative look to our project like this is

Demonstration Video