SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY

B.E BIOMEDICAL ENGINEERING

AIR QUALITY MONITORING

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INTRODUCTION

- Air quality monitoring refers to continuous measurement of specific air pollutants also known as “criteria air pollutants”.
- Air quality refers to the degree to which the air is suitable or clean enough for humans or the environment.

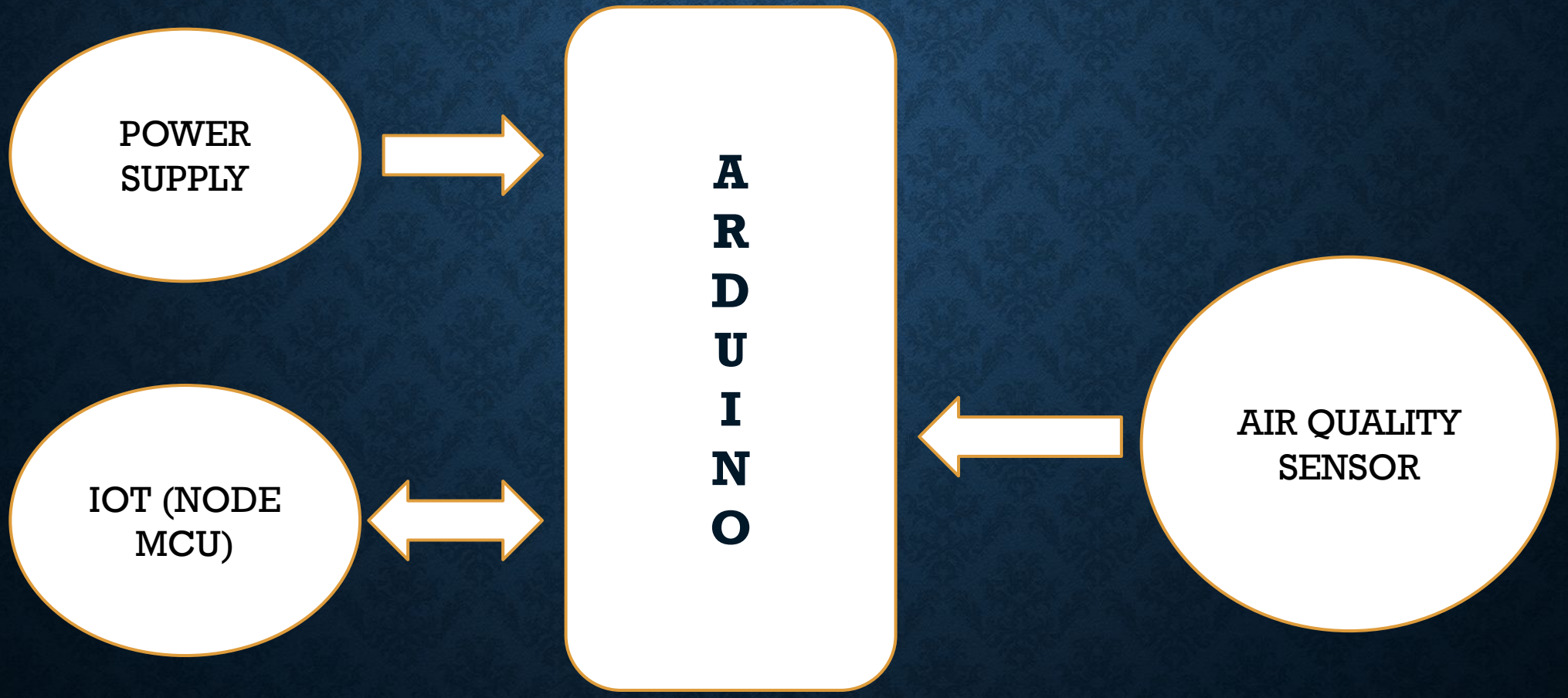
AIM AND OBJECTIVE

- To create tool which willmonitor the quality of air of our environment.
- Content of different gases present in a air or area around us.
- Display the data on LCD.

HARDWARE AND SOFTWARE REQUIREMENTS

1. Arduino
2. IOT (node MCU)
3. Air quality sensor
4. Proteus
5. Arduino(1.8.0)

BLOCK DIAGRAM



AIR QUALITY SENSOR

- Gas sensor(MQ2) module is useful for gas leakage detection . (home and industry)
- It is suitable for detecting H2, LPG, CH4, CO, Alcohol, Smoke or Propane.
- Due to its high sensitivity and fast response time , measurement can be taken as soon as possible .
- The sensitivity of the sensor can be adjusted by potentiometer.

THE PROBLEM

PROBLEM	Increasing concentration of harmful gases in atmosphere
Who has this problem?	All living organisms suffer from serious disease relating to respiration and lungs.
Why should this problem be solved?	To save human life and to control hazards air pollution that is increasing day by day.
How will we know this problem has been solved?	With the help of monitoring air pollutants with real time data can take preventing which gradually help in controlling the air pollution.

THANK YOU