COLLEGE NAME: PRIYADARSHINI ENGINEERING COLLEGE

COLLEGE CODE: 5119

COURSE NAME: INTERNET OF THINGS

GROUP NUMBER:2

PROJECT TITLE: NOISE POLLUTION MONITORING

PROJECT SUBMITTED TO:SKILL UP ONLINE

YEAR: 3

DEPARTMENT:ECE

SEMESTER:05

GROUP MEMBERS:

1. G.BHARATHI [511921106003]
2. R.IMAYAVARMAN [511921106008]
3. G.DESHIK. [511921106004]
4. S.SUHAIL. [511921106034]

GUIDED BY:Dr.A.BANUPRIYA.HOD/ECE

SPOC NAME:Dr.R.THENMOZHI.HOD/EEE

NOISE POLLUTION MONITORING

DEVELOPMENT 2 :

- Define Objectives and Scope:

  Clearly outline the goals of your noise pollution monitoring project. Determine the geographical area or specific locations you want to monitor.

- Select Monitoring Tools:

  Choose appropriate equipment for measuring noise levels. This may include sound level meters, noise dosimeters, or smartphone apps with noise measurement capabilities.

- Data Collection:

  Deploy the selected monitoring tools to the defined locations. Collect data over an extended period to capture variations in noise levels.

- Data Management:

Establish a database or data management system to store and organize collected noise data. Ensure data integrity and security.

- Data Analysis:

  Analyze the collected data to identify patterns, trends, and noise sources. Use software to process and visualize the data.

- Noise Maps:

  Create noise maps that provide a spatial representation of noise pollution in the monitored area. This helps in visualizing hotspots and trends.

- Noise Source Identification:

  Work on identifying specific sources of noise pollution, such as traffic, industrial facilities, or recreational areas.

- Community Engagement:

  Involve the local community in the monitoring process. Gather feedback and concerns from residents who are affected by noise pollution.

- Noise Regulations Compliance:

  Compare the collected data with local noise regulations and standards to assess compliance.

- Reporting and Visualization:

  Generate reports and visualizations that communicate the findings to stakeholders, policymakers, and the public.

- Continuous Monitoring:

  !Implement continuous noise monitoring to track changes over time and assess the effectiveness of noise mitigation measures.

- Mitigation Measures:

Collaborate with local authorities to implement noise control measures based on the monitoring results.

- Public Awareness and Education:

  Educate the public about the impact of noise pollution and encourage them to take actions to reduce it.

- Adaptation and Improvement:

  Regularly review and adapt your monitoring plan based on feedback, changes in noise pollution patterns, and technological advancements in monitoring equipment.

- Integration with Smart City Initiatives:

  If applicable, integrate noise pollution monitoring into broader smart city initiatives for better urban planning and management.

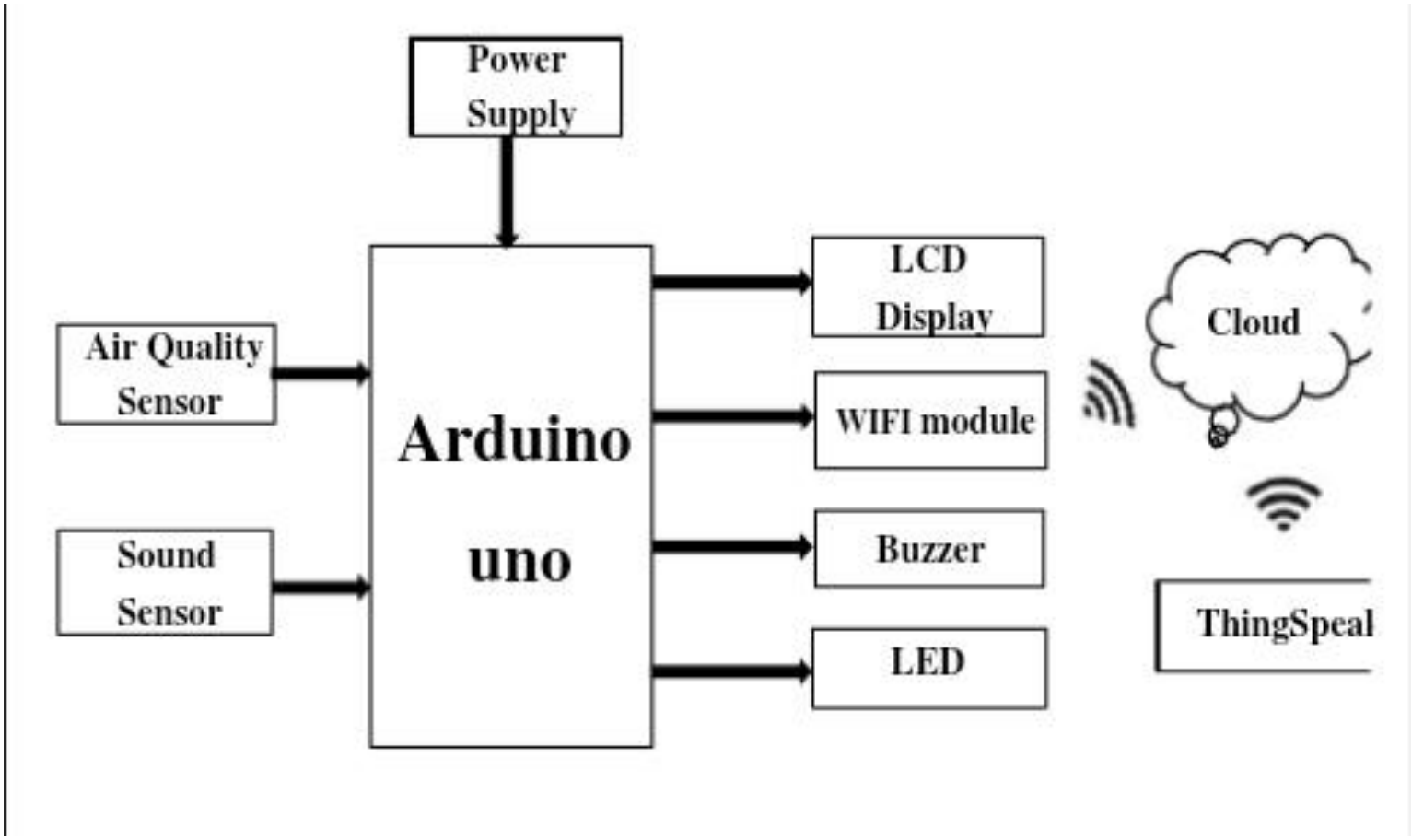
- Legal and Ethical Considerations:

  Ensure compliance with legal and ethical considerations related to data collection, privacy, and environmental regulations.Funding and Resources:Secure funding and resources for the project through government grants, partnerships, or community support.

- Public Reporting and Accountability:

  Provide regular updates and engage with the public and relevant authorities to ensure transparency and accountability.

SOFTWARE COMPONENTS



HARDWARE COMPONENT