

DESIGNING AND INNOVATING A NOISE POLLUTION MONITORING SYSTEM :

STEPS TO DESIGN AND INNOVATE :

PROBLEM DEFINITION :

Excessive urban noise disrupts city life, impacting health and well-being. Industrial noise compliance is crucial for worker safety and community harmony. Airport noise disrupts residents: monitoring aids in mitigation efforts.

STAKEHOLDER ANALYSIS :

Identify the stake holders involved, including residents, local authorities, and environmental

agencies.



DATA COLLECTION AND INTEGRATION :

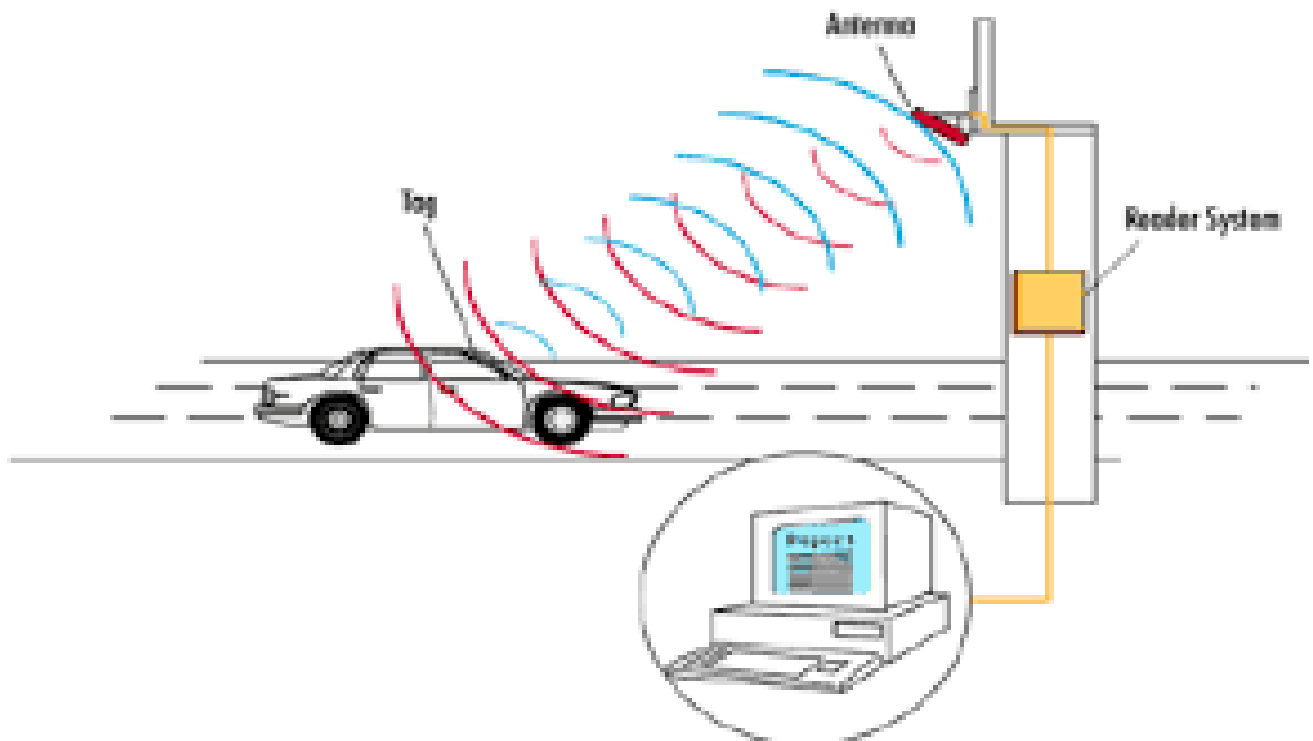
Develop a system to collect noise data from sensors and integrate it into a centralized database. consider using iot technology for real-time data transmission.

MACHINE LEARNING AND AI:

Utilize machine learning and ai techniques to automate noise sources identification and anomaly detection .Continuously improve algorithms based on

new data

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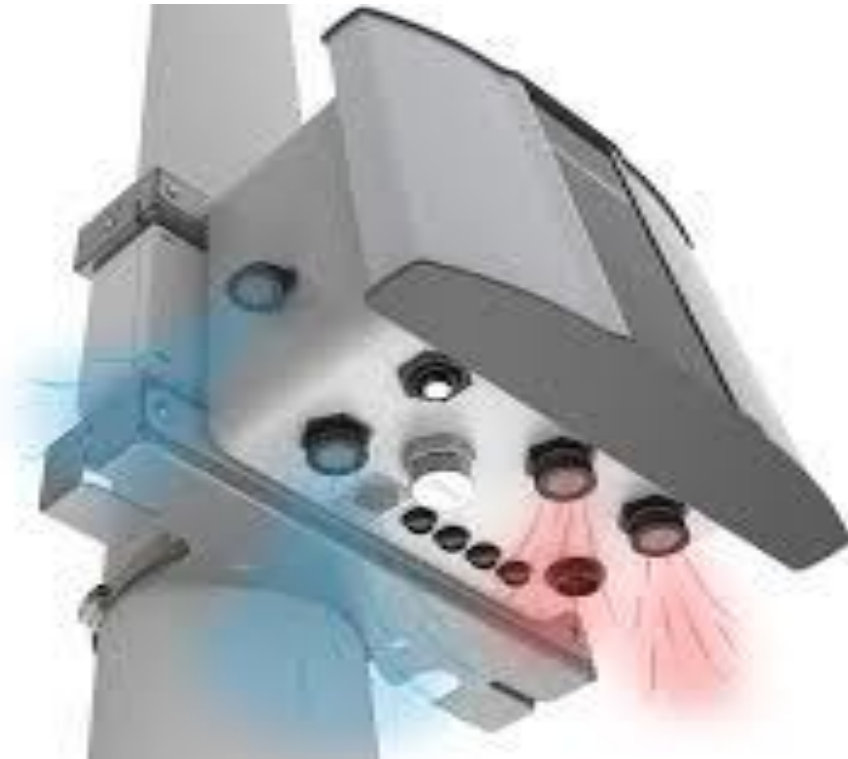
MOBILE APPLICATIONS :

Develop mobile apps that allow resident to report noise complaints and access noise data in real-time. Enable gps to map noise sources and complaints geographically.

6) Sensing details:

System uses air sensors to sense presence of harmful gases/compounds in the air and constantly

transmit this data to
microcontroller.



7) Measuring and Level checking:

The amount of noise measured by a **decibel meter**.
According to level of noise the prevention is taken by a
device.



8) Informing technology:

The high noise is detected the device display the warning and alert to the device that connected to it.

