College code:9512

College Name: JP COLLEGE OF ENGINEERING

Project code: Proj_211934_Team_1

ENVIRONMENTAL MONITORING system

TEAM MEMBERS:

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PHASE 2 :

INNOVATIVE DESIGN:

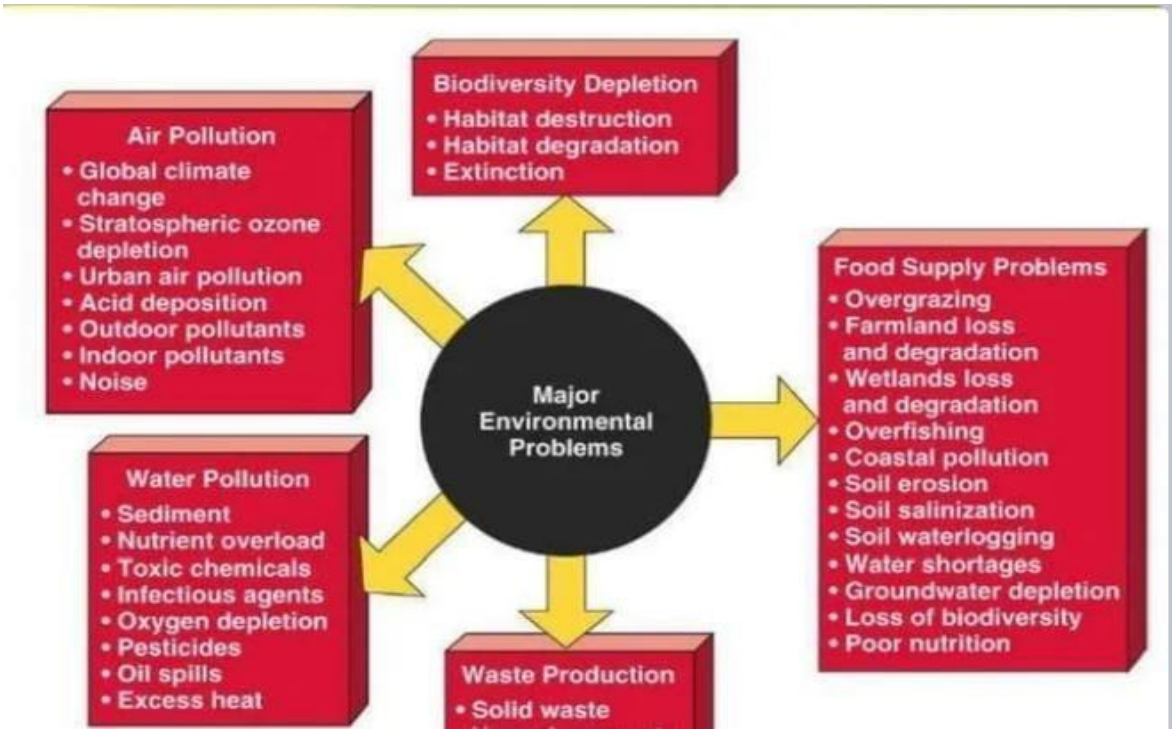
CAUSES ON THE ENVIRONMENT:

The major causes of environmental issues are the result of several forces working together: our technological innovation, our consumptive habits, and our pursuit of wealth, along with the exponential rise in the human population over the last 200 years These forces have transformed the face of Earth to create economic opportunities and increase the standard of living for many people throughout the world. However, scientists have discovered that if population growth and the ravenous

consumption of the planet's natural resources continue unabated, they would pose serious threats to the survival of our species, as well as to the survival of millions of others . Some of the most common environmental problems are air pollution, water pollution (seas, rivers, groundwater), soil pollution, waste production, noise pollution, damage to ecosystems and loss of biodiversity

I hope this information helps. If you have any further questions or need more information, please let me know.

BLOCK DIAGRAM:



OBJECTIVE OF THE PROJECT :

The main objective of the project is to provide a platform that monitors the parameters and help to create better pollution free future.

CHANGE TO BE IMPLEMENTED :

- Devices must be easily integrated with IOT platform
- Uniform data format across multiple platforms
- Platform must be expandable and Fine_grained data visibility model

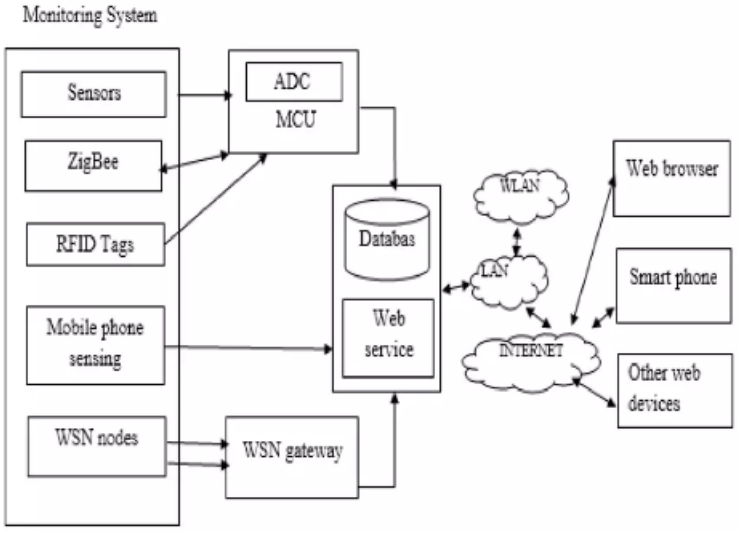
SOLUTIONS:

Environmental monitoring projects can be designed to address a wide range of environmental issues. Here are some solutions that can be used in environmental monitoring projects:

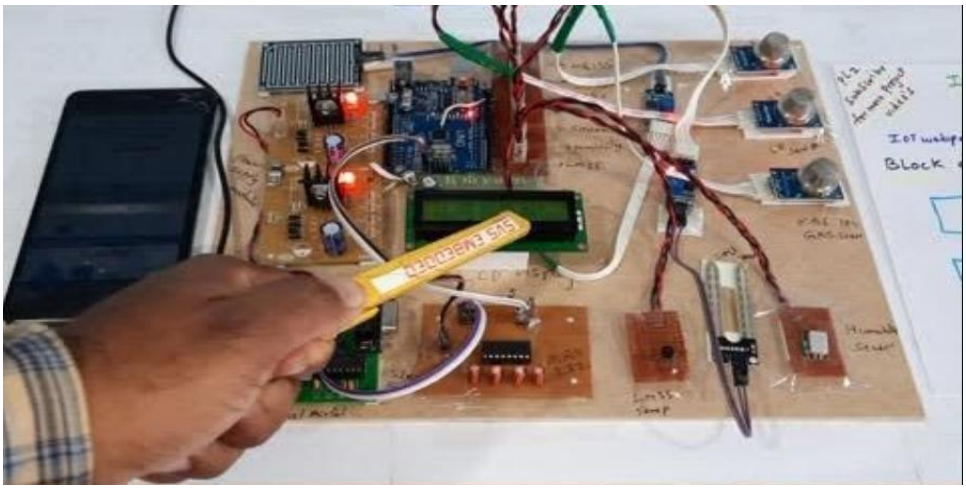
1. **IoT-based environmental monitoring**: IoT-based environmental monitoring systems use sensors and connected devices to collect measurements and data from the physical environment. These systems can detect temperature, moisture, water levels, leaks, and other physical properties
2. They can be programmed to detect abnormalities or specific conditions and trigger alerts via email or text, as well as automated processes

3. **Environmental monitoring software**: Environmental monitoring software can help researchers and scientists to organize, analyse, and share data collected from environmental monitoring projects
4. **Environmental monitoring for construction projects**: Environmental monitoring enables construction and infrastructure projects to ensure compliance with environmental plans, permits, and other regulations while mitigating and minimizing environmental impact .
5. **Environmental monitoring systems**: Environmental monitoring systems study the air, soil, and water to measure their current conditions, spot trends and changes, make forecasts and provide early risk warnings. They help policymakers make informed decisions on sustainability and the environmental

MODEL OF EXCITING SYSTEM:



MODEL :



CONCLUSION

These are the solutions to solve the impacts on the environment by the environmental monitoring project.