|  |
| --- |
|  |
| ENVIRONMENTAL MONITORING |
| USING IOT |
|  |
| **SUBMITTED BY,** |
| **HARITHABANU.M**  **Au812921106016**  **smharithabanu@gmail.com** |

|  |
| --- |
|  |

ABSTRACT:

The internet of Things (loT) is known to play a critical capacity in regular daily existence the entire way through inescapable sensor correspondence networks the epitomize our general climate.

Such frameworks gives the plan capacity to screen fundamental actual occasions produced information that can be moved and put away in the cload from which it is feasible to share this data by means of utilization and choice is made to make a move for a happened occasion Ecological Monitoring framework sex sensors for encompassing area moistness and temperature These information could be used to aume transient conduct like gadget becoming hot or getting cool down and other long haul insights of the gadgets.

The detected information will be sent to cloud space, and the cloud is gotten to by u Smartphone application and results are introduced to end clients. The review is done the sort sensors, microcontroller and its ability, investigation of various kind's cosmomical organization arrangement for ceaseless information assembling and checking Different instruments used to investigate the information put away on the cloud.

Design thinking :

Environmental monitoring in the Internet of Things (IoT) emphasizes empathizing with stakeholders, defining the problem, ideating creative solutions, prototyping, and iterating based on feedback. It involves engaging with end-users, environmental experts, and IoT technologists to deeply understand the context and challenges of environmental monitoring.

**1.\*Empathize\*:**

* Understand the perspectives and needs of various stakeholders, including users, environmental scientists, policy-makers, and technologists. This involves conducting interviews, observations, and field studies to comprehend the environmental issues and user requirements.

**2. \*Define\*:**

* Clearly define the environmental problem to be addressed and the specific goals of the IoT-based monitoring system. Consider factors like the type of environmental data to be collected, the frequency, the accuracy needed, and the targeted impact on sustainability.

3. \*Ideate\*:

* Generate a wide range of ideas for IoT solutions that can effectively monitor and address the defined environmental problem. Encourage creativity and diverse perspectives during brainstorming sessions.

**4. \*Prototype\*:**

* Develop low-fidelity prototypes or proof-of-concept models of the IoT system to visualize and test different concepts. This stage helps in refining the design and understanding technical feasibility.

**5. \*Test and Gather Feedback\*:**

* Test the prototypes with a focus on user interaction, functionality, and efficiency. Gather feedback from stakeholders and users to identify improvements and validate the design.

**6. \*Iterate\*:**

* Based on the feedback received, make necessary iterations and refinements to the IoT design. Revisit earlier stages of the design thinking process as needed to incorporate improvements and enhance the system's effectiveness.