Project Design Phase-2

Solution Architecture

Date	11 October 2023
Team ID	455
Project Name	4123-Environmental Monitoring
Team Name	Proj_227236_Team_2
Team Members	5

Environmental Monitoring Diagram:
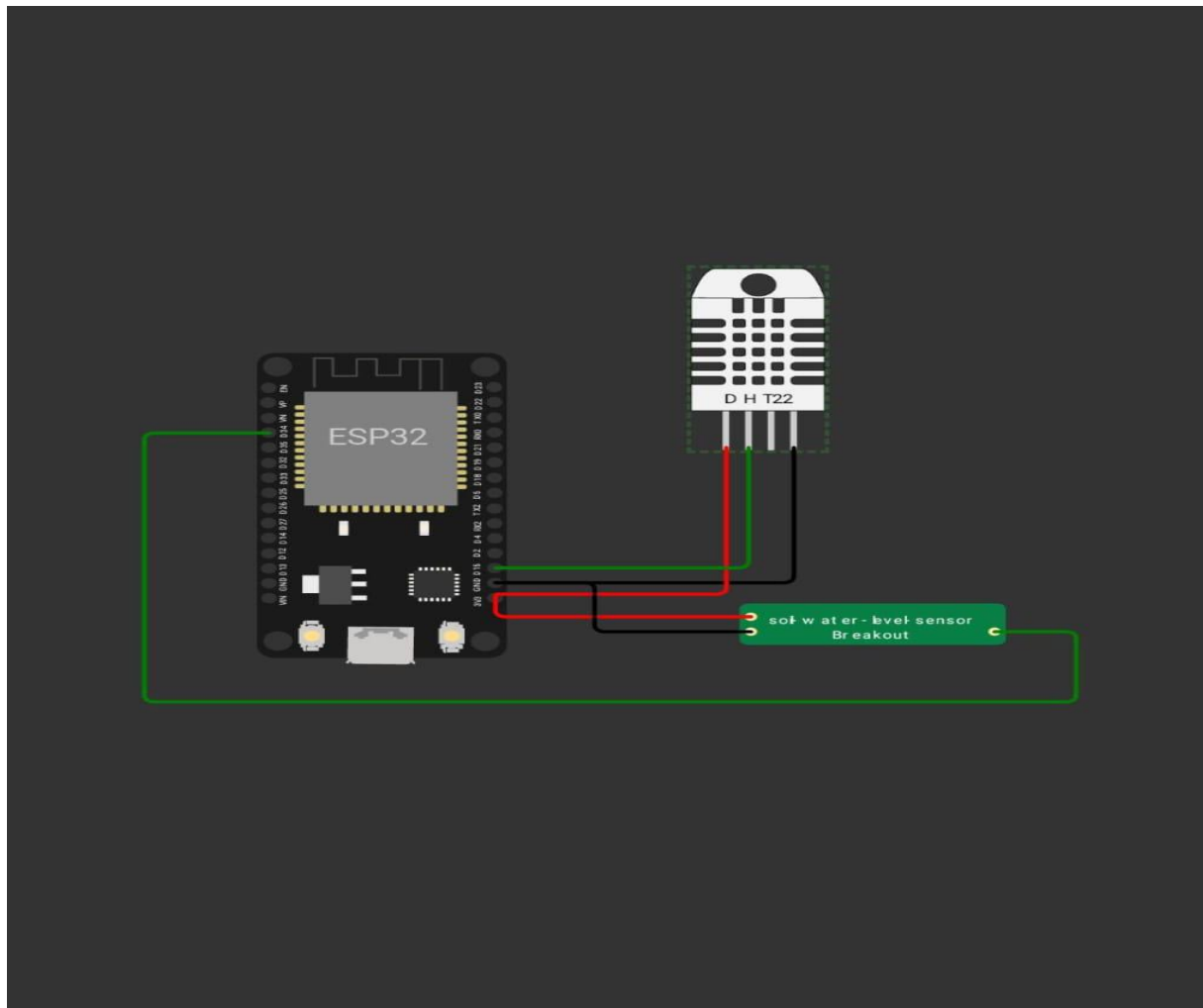
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Proposed Solution Template

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Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The increasing impact of climate change, pollution, and habitat destruction necessitates a comprehensive and efficient environmental monitoring system. This system should enable real-time data collection, analysis, and reporting to address critical environmental challenges, such as air and water quality, biodiversity loss, and the sustainability of natural resources."
2.	Idea / Solution description	One idea for environmental monitoring is to develop a network of low-cost, solar-powered sensor nodes placed in urban areas and natural ecosystems.
3.	Novelty / Uniqueness	A novel approach to environmental monitoring could involve the use of autonomous drones equipped with advanced sensors and artificial intelligence algorithms.
4.	Social Impact / Customer Satisfaction	Environmental monitoring can engage communities in citizen science projects, fostering a sense of responsibility and ownership for their local environment.
5.	Business Model (Revenue Model)	Create user-friendly dashboards and reports to present the data in an understandable format.
6.	Scalability of the Solution	Build the solution with a modular architecture, allowing for easy expansion and integration of new sensors, data sources, and technologies. This makes it adaptable to changing monitoring needs.