

SMART FARMING TECHNOLOGY SYSTEM

Team members:

1.N.Shalini- 2451-16-737-002

2.G.Pranay-2451-16-737-005

3.A.Jyothi -2451-16-737-008

Guide:

J.Sowjanya

Assistant Professor,ITD

This proposed smart farming technology is environmentally friendly, efficient, cost effective and gives the farmer the power to control and monitor production in real time.
This proposed smart farming technology is environmentally friendly, efficient, cost effective and gives the farmer the power to control and monitor production in real time.
This proposed smart farming technology is environmentally friendly, efficient, cost effective and gives the farmer the power to control and monitor production in real time.
This proposed smart farming technology is environmentally friendly, efficient, cost effective and gives the farmer the power to control and monitor production in real time.

Statement of problem

- This project aims at determining the most efficient soil moisture detection.
- The system is designed to overcome the challenges of water wastage, nutrition deficit and leaching of nutrients.
- This proposed smart farming technology is environmentally friendly, efficient, cost effective and gives the farmer the power to control and monitor production in real time.

SCOPE OF THE PROJECT:

- The idea that stands behind this project is building an IoT system that monitors the soil moisture , detecting when it gets too dry.
- This project displays the humidity soil status using a Humidity sensor.
- We can even detect the temperature and water levels of the soil using different types of sensors.
- By this, we can predict the values and can convey a short message to the user alerting him.

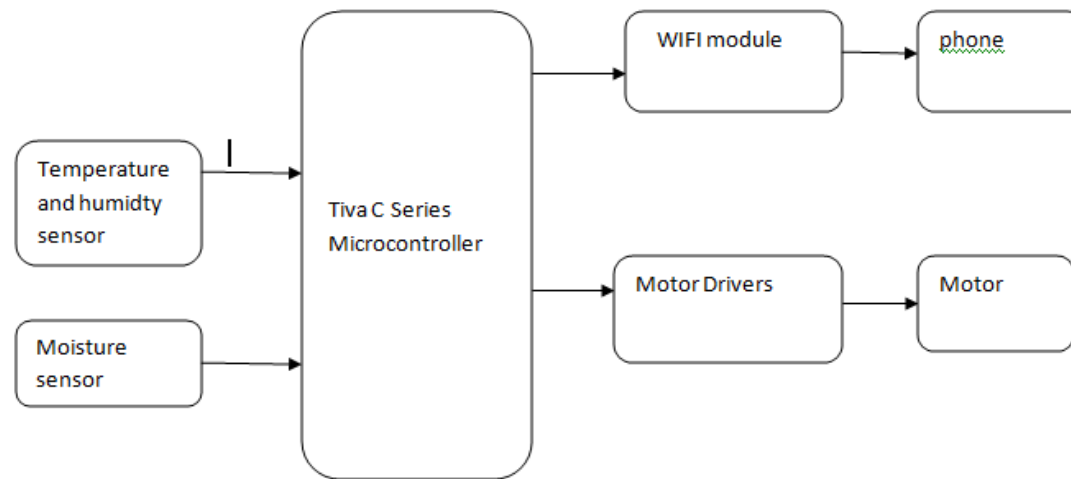
Hardware Requirements

- Launch pad
- Temperature and Humidity Sensor
- Display
- Connecting Wires
- CC3100 wifi module
- Motor
- Motor driver-ULN2003APG
- Relay

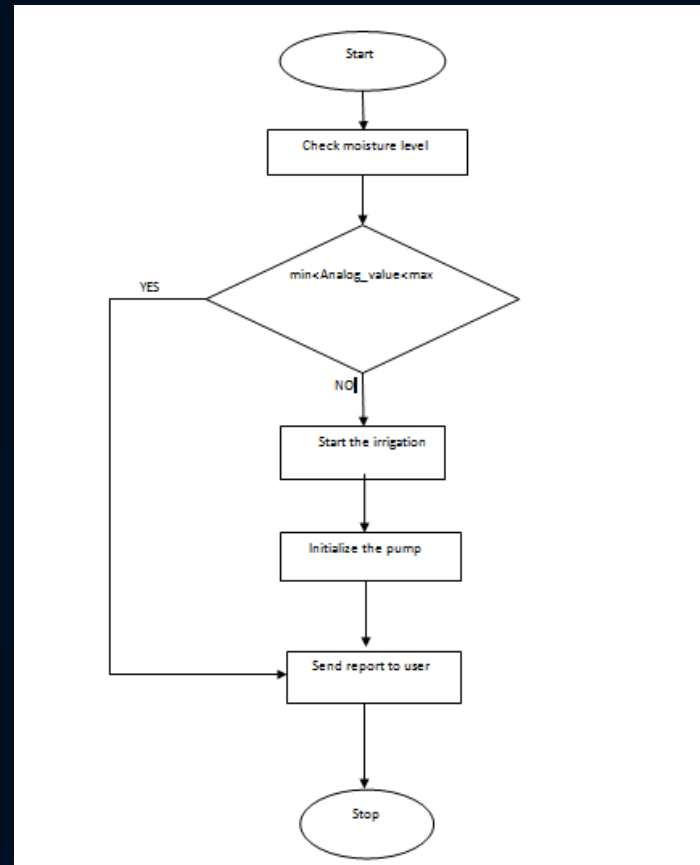
Software Tools:

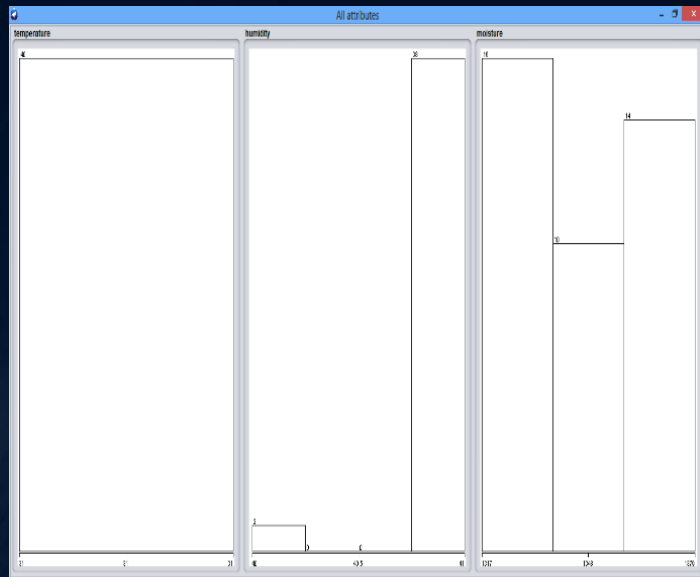
- Energia
- Weka Tool
- Tera Term
- Blynk app

Design



Flow chart





Conclusion

- This project is thus used to water the crop or plant automatically without the intervention of user.
- User is given another option to water manually as the readings are sent to his mobile.
- In addition to smart farming system, this project can be applied in Weather monitoring system.

Future scope

- Smart Farming is key for the future of agriculture.
- Smart farming is farming management concept using modern technology to increase the quantity and quality of the agricultural products.
- Farmers in the 21st century have access to upcoming technologies, data management and IOT technologies by which they can improve the quality of crops.
- We can extend this project by introducing drones through which we can effectively monitor the field.
- By introducing pest controlling features, it becomes even more useful.

The background is a dark blue gradient. On the left side, there is a series of curved, concentric lines that create a sense of depth and movement, resembling a stylized 'C' or a tunnel. These lines are composed of many thin, parallel lines that form a grid-like pattern. The overall effect is a modern, tech-oriented aesthetic.

THANKYOU