GETTING CLOSURE
TO NATURE
BEST SOLUTION
HORTICULTURE

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The Internet of Things Meets Hydroponics

Fame Technology Solutions with smart applications, the Internet of Things (IoT) is going to push the domain to the next level. Workflow automation, real-time data, remote crop monitoring, climate control in green house, water irrigation is a small insight into possible IoT benefits for agriculture.

IoT for Horticulture Benefits

- **No Soil**
  - you can grow crops in places where the land is limited, doesn’t exist, or is heavily contaminated.

- **Less Diseases & Pesticide**
  - Since you are using no soils and while the weeds, pests, and plant diseases are heavily reduced.

- **Climate control**
  - hydroponic growers can have total control over the climate - temperature, humidity, light intensification, the composition of the air.

- **Water Saving**
  - Plants grown hydroponically can use only 10% of water compared to field-grown ones. In this method, water is recirculated.

- **pH control**
  - All of the minerals are contained in the water. That means you can measure and adjust the pH levels of your water mixture much more easy.

- **Fast Growth**
  - Plants are placed in ideal conditions, while nutrients are provided at the sufficient amounts, and come into direct contacts with the root systems.

- **Affordable**
  - Besides spending fewer works on tilling, watering, cultivating, and fumigating weeds and pests, much money & time saved.

- **Higher Yields**
  - plants no longer waste valuable energy searching for diluted nutrients in the soil. Instead, they shift all of their focus on growing and producing fruits.

- **More Eco Friendly**

- **Ensure Operational Efficiency**

- **Live Monitoring System**

- **Auto Suggestions for better growth of plants and crops**
Features

- Schedule adequate supply of water and other chemicals at predefined time intervals to ensure optimum growth of plants.
- Manual controls based on various readings received from IOT devices.
- System helps defining the optimum values for each plant and crop.
- System also provides the guidelines for corrective actions if the reading goes below or above the optimum value.
- System Generated Alerts about crop condition by notifications, SMS and Emails

Integration with Sensors

There are around 50+ sensor module, which can be connected to the IoT module. Some of the key sensors required for agriculture purpose are Light, Soil moisture, Humidity, Temperature and PH level sensors.
Aspiring farmers to plan, build, and operate their farm.

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