LITERATURE SURVEY

SMART FARMER – IOT ENABLED SMART FARMING APPLICATION

Team Details

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Literature Survey on "Smart Farmer – IOT Enabled Smart Farming Application"

Reference	Technologies used	Advantages	Disadvantages
[1]	Microcontroller: CC3200 Chip, MCU Communication Technologies: MMS, Wi-Fi Module Sensors: Camera, Temperature Sensor, Humidity Sensor	 Sends the information about humidity and temperature in air of field to farmer. Uses MMS technology to send captured images. 	 MMS adds extra cost No automatic support system
[2]	Microcontroller: ATMEGA328P Cloud server: Adafruit Server Communication Technologies: Wi-Fi Sensors: Soil Moisture Sensor	Controlling the actions of motor pump (ON/OFF) based on the threshold value.	No sprinklesNo smart drainsNo automatic support system
[3]	Microcontroller: Arduino Cloud server: ThingSpeak Sensors: Light Intensity, pH, Electrical Conductivity, Water Temperature, Relative Humidity	 Hydroponic System Bayesian Network Model System has manual and automatic mode 	Extremely computationally expensive model
[4]	Microcontroller: Arduino UNO Cloud server: ThingSpeak Communication Technologies: Wi-Fi Sensors: Water Level Sensor, Moisture Sensor	 Farmers can monitor their fields remotely Irrigation control system 	Lack of automated decision support system
[5]	Microcontroller: Arduino Sensors: Temperature Sensor, Humidity Sensor, Soil Moisture Sensor	Data regarding sensors stored on server and user can view via GUI application.	 Decision making is rely on user or farmer No automatic support system

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