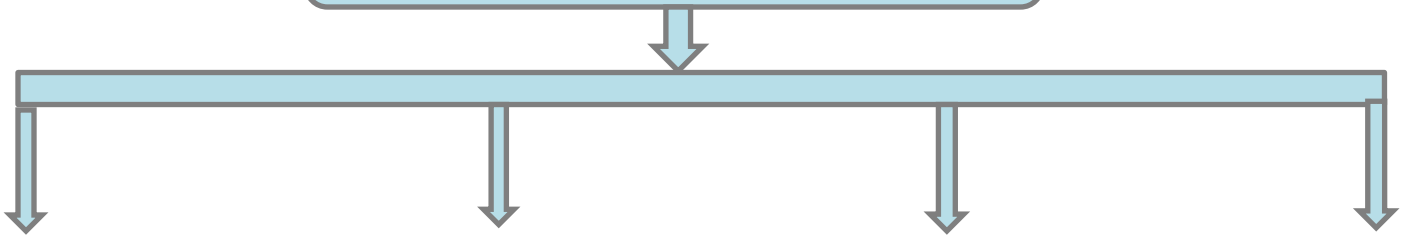
# SmartFarmer - IoT Enabled Smart Farming Application



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| By using the IOT devices, farmers can monitor the field conditions from anywere. | To develop web application for user interface | Interfacing farmers/owners through web application | Using moisture sensor to measure soil moisture | LED is used to indicate the sensors condition | The use of IOT devices to transfer the measured data to the cloud | Interfacing farmer to through the mobile applications | Based on the presence of water in the well , for how many hours the motor will run and approximate land will be irrigated will be notified to the user |
| To implement the IOT technology in agricultural field | By using Soil moisture sensor to measure amount of water in the soil | LED is used to indicate the sensor is whether running condition or not | Temperature sensor used to measure temperature. | by using solar energy to reduce amount of fuels | By using arduino to control automattically / manually | Rain sensor is used to prevent immediately after a rainfall | From soil nutrition sensor output supply chain can be monitored |
| By using IOT devices to transfer measured data to the cloud. | Establish reliable, secure and robust communication between cloud and farms | Tracking and tracing of the product to meet the needs of the consumer to increase profit | All the data aquired are transferred to IOT cloud using watson IOT platform | To produce smart agricultural system and its expected to enhance efficiency and productivity | Based on the climate ,the control is given to the user to control the water pumps | To implement water level monitor to indicate the motor condition | Based on the climate ,the control is given to the user to control the water pumps |