

SMART FARMER-IOT ENABLED SMART FARMING APPLICATION:

Abstract :

The increasing demand for food, both in terms of quality and quantity, has raised the need for intensification and industrialization of the agricultural sector. The amount of worker may lead to poor productivity and quality of agricultural product. water pumping systems are mostly used by farmers to channel enough water to the crops o maintain the soil moisture. Conventional water pumping system is controlled by manually by farmers. Farmers are hard or even unable to monitor and provide the required conditions for crops at certain time such as during the night or emergency cases. This project aims to monitoring and controlling water pumping system using IoT. This project used arduino software to program the Node RED board to link the board with cloud system. Then IBM Watson IoT platform is used for data collection and monitoring. This project is used to monitor the temperature, humidity and soil moisture. This project used MIT app inventer to create the android application. Besides this system also control "ON" and "OFF" water pumping system via smartphone using Android interface at a certain range.

Block diagram :

