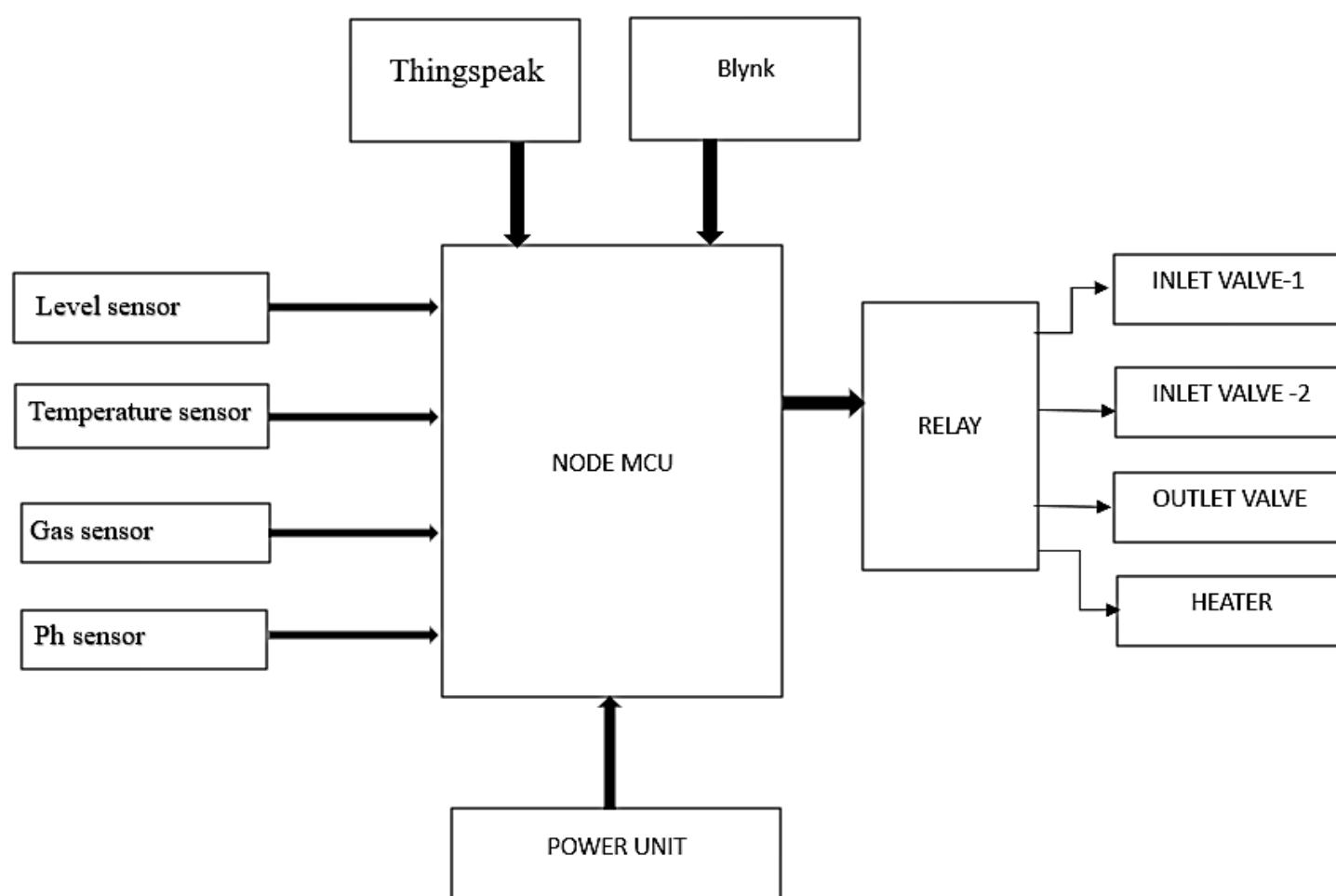


INDUSTRIAL BATCH PROCESS USING IoT

ABSTRACT

Modernization and automation are sweeping the globe, with IoT-based industrial monitoring solutions at the forefront. The importance of assessing the state of the industry is vital to the safety and efficiency of the products. In industrial automation control, a wide number of process variables such as, temperature, level, pressure, flow, and other process parameters can be detected all the while. By implementing NODE MCU and IoT standards, industrial parameters can be controlled and checked distantly. It reduces designing expenses regarding manual arrangements of all involved gadgets. In this project, a system is created which will monitor automatically the industrial applications, the temperature, gas, concentration of fluids and fluid levels and control the actuators. These are utilized for identifying and alerting from undesirable activities in surrounded region of industry. In the proposed system NODE MCU is utilized as controller and the data is monitored in things-speak and the control of the actuator is done in Blynk IoT. When the information is associated with the web server, it will store and give the information at required time. The proposed technology could be beneficial to manufacturing industries. Adding technology to any kind of manufacturing industry will assure the safety and well-being of the people as well as prevent accidents. Using automation technology reduces the chances of loss and accidents in the machinery world.

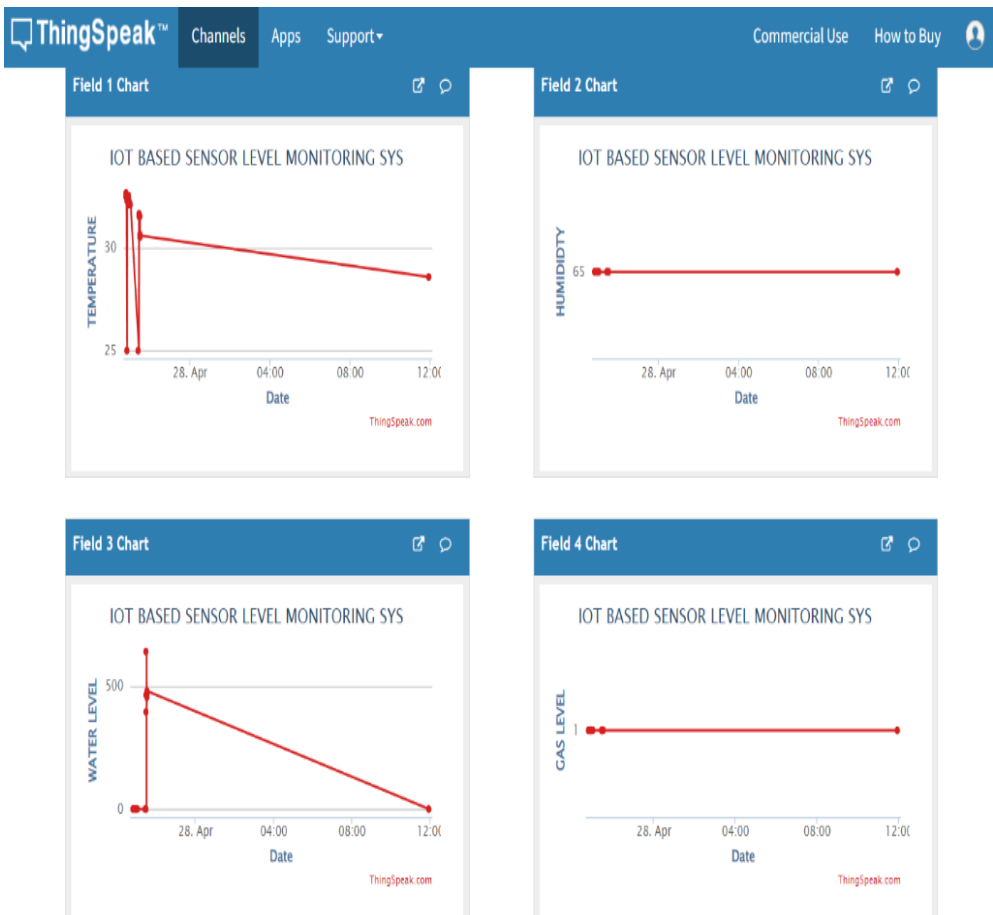
BLOCK DIAGRAM



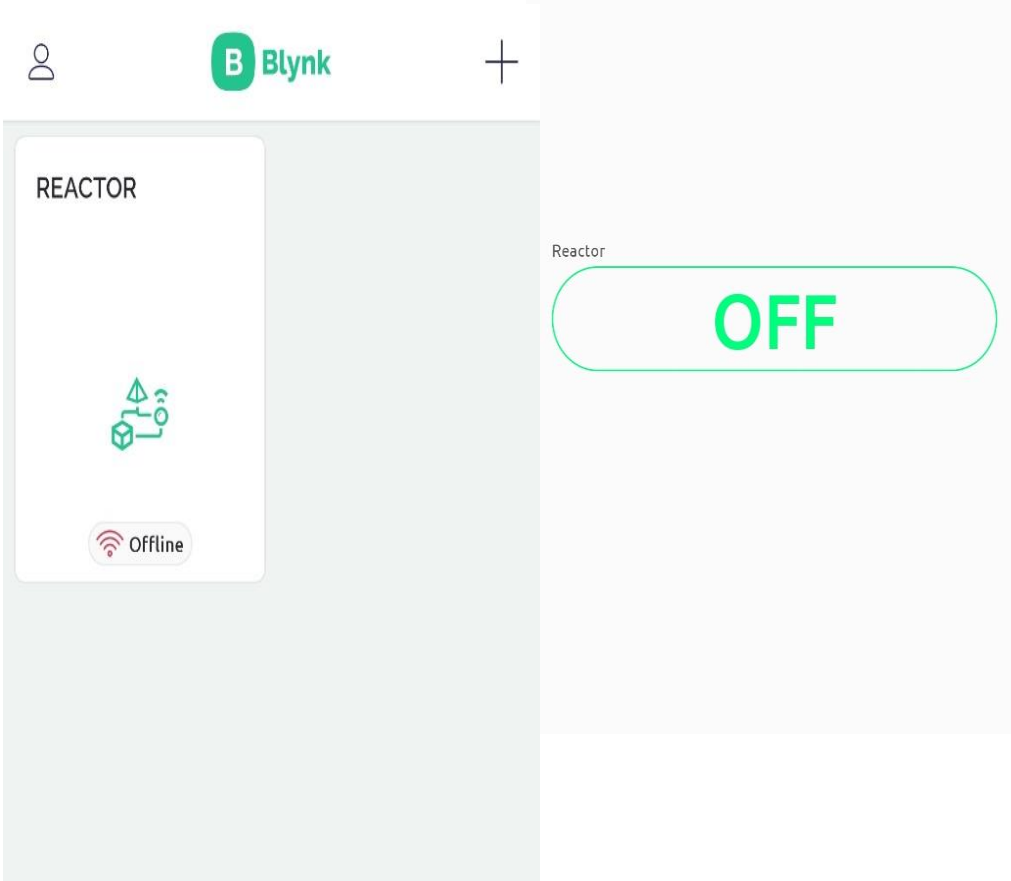
OUTPUT



BATCH PROCESS SETUP



THINGSPEAK OUTPUT



BLYNK OUTPUT

ARCHANA.D - 19EI1005
BALASUBRAMANIAM.B – 19EI1007
BHUVANESH.M – 19EI1012
SIVASUBRAMANIAN G- 19EI1017
NIRUBASRI C-19E11036