

Abstract

This Final Project implements a platform developed with LoRa-based Internet of Things and the MQTT Protocol for Multi Sensors which creates an information system with integrated data access and visualization for its users. The platform manages information on web channels for the public, meeting the needs of users to get information about the right time. This system uses ultrasonic network sensors and flow meters. This platform contains the Golang programming language, library, PostgreSQL database, MongoDB database, and uses the Message Quening Telemetry Transport (MQTT) protocol. Tests are carried out to test the usability and maintain the Platform when receiving transmissions from Multi Sensors and displaying new features that support Platforms on the Web. The results of platform testing can receive 5,10,15 nodes for multi platforms.

Keywords: Information, MQTT, Platform, Web Based, Cloud