ABSTRACT

In the internet of things technology, there is a need to connect the sensor to the IoT device. Each sensor has an interface method for reading data from the sensor. So, when I want to add a new type of sensor IoT device must be reprogrammed to be able to read the new sensor. To overcome this problem, a plug and play mechanism is proposed that provides a more convenient and efficient linking system for the identification and reading of data from connected sensors. In this final project proposed prototype gateway system using embedded platform raspberry pi and node.js with node device connected with two types of sensor MCP9808 and BH1750. From testing obtained functionality plug and play gateway that can read the sensor degan result 80% MCP9808 and 60% BH1750. And capable of sending sensor data to IoT platform and accessing sensor data through HTTP interface

Keywords: Raspberry pi, Gateway, the Internet of Thing, plug and play, node.js, HTTP, MCP9808, BH1750,