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(57) Abstract :
Implementation of IOT application for monitoring humidity and temperature data in building indoor environments [011] In a world where people are more connected, it's time to become part of a shared network of objects. The development of new integrated products is technically and economically accessible, with the possibility of connecting devices to telecommunications and hardware processing capable of operating modern embedded software. This research discusses a part of the evolution of the Internet of Things (IoT) and some of its applications, and proposes to create a device connected to this network. Since the subject of this work is IoT, the focus was on creating an application for collecting and reading climate data within a wide range of devices that can be developed. As a means, a research report will be generated with the construction of a prototype from forensic research. Currently, there are more expensive products on the market to study climate data, almost always imported or developed by multinational companies, with a small amount of national technology available to the end consumer. It is reserved for large national reference research centers. A device developed according to the objectives proposed in the work, can be designed to answer the question, collect and read climate data. The subject of this work is the Internet of Things. The general purpose was to read the temperature and humidity data from the DHT11 sensor and upload it to the Thingspeak cloud using the Arduino Uno and ESP8266-01 module. The Arduino Uno is an MCU that receives humidity and temperature data from a DHT11 sensor and processes it in the ESP8266 module. ESP8266 is a WiFi module that is one of the leading platforms of the Internet of Things. It can transfer a data to the IoT cloud. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8]

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