Abstract

Internet of Things (IoT) has become an emerging area of research as the interaction between hardware and software components have become easier nowadays. Different IoT solutions are designed, prototyped, implemented and commercialized in this millennium, such as home automation systems, smart locker systems, smart city connectivity etc. On the eve of 4th Industrial revolution, the demand of smart automated systems for solving house-hold problems and commercial products has increased. Therefore, in this paper, we have proposed an IoT-based smart meeting room weather detection system, which will enable to give the real-time situation of a meeting room. Smart meeting room are nowadays incorporating smart table-top devices, smart boards, projectors and/or ergonomically healthy seating arrangements. However, the idea of healthy environment in meeting rooms could be ensured by incorporating reliable sensors. For our proposed system, we have used temperature and humidity sensor (DHT22), barometric pressure sensor (BMP180) and gas sensor (MQ135). For communication, we have used the Bluetooth module (Hc-05) and for giving alerts a buzzer has been utilized. The proposed system can be used to convert and ordinary room to smart meeting room, in
terms of weather condition. Based on the reading of sensors, a smart system has been proposed to maintain a healthy environment of meeting room. The overall criteria are formalized and users may use the mobile application to get accessed the sensor data.

References

16. Z. Yu, Y. Nakamura, "Smart meeting systems: A survey of state-of-the-art and open
IoT-based Smart Meeting Room Weather Detection System using Arduino and Relative Sensors


Index Terms

Computer Science Information Systems

Keywords

Internet of Things (IoT), Sensors, Smart Meeting Room, Weather detection, Mobile Communication.