

WE CLAIM

1. A MQTT-driven remote temperature monitoring system for IoT-based smart homes, said system comprises:
 - a plurality of temperature sensors for collecting temperature readings within a smart home;
 - an IoT devices embedded with a controlling unit for pre-processing said temperature readings collected by temperature sensors;
 - a remote cloud server for providing remote services to users including data storage, web interface, application re-configuration, and so forth; and
 - a house owner's device utilized by a house owner or a consumer for fetching temperature readings of a house from remote cloud server.

2. The system as claimed in claim 1, wherein said pre-processing comprises cleaning and aggregating of collected temperature readings.

3. The system as claimed in claim 1, wherein said pre-processed data is sent to a remote cloud server.

4. The system as claimed in claim 1, comprises a MQTTBox, a multi-platform application user interface available for various operating systems to facilitate creation of MQTT clients that are involved in publishing and subscribing topics, creation of MQTT virtual device networks, load testing of MQTT clients, devices, brokers, applications, and so forth.

5. The system as claimed in claim 1, wherein message Id for each message is generated by the MQTT broker for QoS values 1 and 2.

6. The system as claimed in claim 1, wherein topic from which messages are published is Home/Living Room/Temperature.

7. A MQTT-driven remote temperature monitoring method for IoT-based smart homes, said method comprises:
 - collecting temperature readings within a smart home by employing a plurality of temperature sensors;
 - pre-processing said temperature readings collected by temperature sensors using an IoT devices embedded with a controlling unit;
 - providing remote services to users including data storage, web interface, application re-configuration, and so forth through a remote cloud server; and
 - fetching temperature readings of a house from remote cloud server via a house owner's device utilized by a house owner or a consumer.