**ABSTRACT**

**TITLE :** Reading Multi-Sensor Data and Logging into Cloud using IOT Services

**PROPOSED IDEA:**

In this we describe IoTCloud, a platform to connect smart devices to cloud services for real time data processing and control. A device connected to IoTCloud can communicate with real time data analysis deployed in the cloud . The platform design is scalable in connecting devices,transferring and processing data. With IoTCloud a user can develop real time data processing algorithms in an abstract framework without concern for the underlying details of how the data is distributed and transferred

A wide-ranging Internet of Things (IOT) ecosystem is emerging to support the process of connecting real-world objects like buildings, roads, household appliances, and human bodies to the Internet via sensors and microprocessor chips that record and transmit data such as sound waves, temperature, movement, and other variables

Sensors are becoming ubiquitous. From almost any type of industrial applications to intelligent vehicles, smart city applications, and healthcare applications, we see a steady growth of the usage of various types of sensors. The rate of increase in the amount of data produced by these sensors is much more dramatic since sensors usually continuously produce data. It becomes crucial for these data to be stored for future reference and to be analyzed for finding valuable information, such as fault diagnosis information. In this we describe a scalable and distributed architecture for sensor data collection, storage, and analysis.

**How Does Sensor Data Go From Device To Cloud**

* Sensor to Cloud Ethernet
* Sensor to Mobile Network to Cloud
* Sensor to wifi router to Cloud
* **Hardware Requirements :**
* Esp8266
* Mfrc522
* Sensors
* **Software Requirements :**
* Processor : i5(min.)
* Back End : php
* Storage : Cloud
* OS : Windows 7 and higher
* Web Browser : Google Chrome,Mozilla Firefox
* Arduino

**Block Diagram :**

Multiple Sensor

Wifi/bluetooth

Esp 8266

Wireless Device

Router

Cloud which stores raw input from sensors for future use.

Local Server