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Cloud Computing System Using IOT for Pharmaceutical Applications

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Abstract: Since Cloud computing can provide elastic, on demand, ubiquitous worldwide accessible computing and storage resources, it has been introduced into various areas from big data analysis to real time robot control. One very promising area is developing a universal platform for Internet of Things (IOT) applications using cloud computing technology. The IOT Cloud system is normally featured as both real time responding and big data processing. IOT coverage is very wide and includes variety of objects like smart phones, tablets, digital cameras and sensors. Once all these devices are connected to each other, they enable more and more smart processes and services that support our basic needs, environment and health. Pharmaceutical technology need to be update in India, so I proposed this model.

Keywords: Smart Robot, Cloud Computing, Face Book App, Internet of Things.

This research talks about how different devices can be applied different access polices on it. Wireless Home Automation system (WHAS) using IoT is a system that uses computers or mobile devices to control basic home functions and features automatically through internet from anywhere around the world, an automated home is sometimes called a smart home.

It is meant to save the electric power and human energy. The home automation system differs from other system by allowing the user to operate the system from anywhere around the world through internet connection. Home Automation system is the integration of cloud networking, wireless communication, to provide the user with remote control of various lights, fans, and appliances within their home and storing the data in the cloud.

EXISTING SYSTEM

- The existing system suffered many problems like high cost to set up communication between robot and rescue control unit, noisy wireless communication link between robot and control unit which ultimately stopped robot to function etc.
- A smart home, in the conventional sense, supports automatic systems to control lighting and temperature and activate security apparatus. It is used to monitor many aspects of daily life. Nowadays, smart homes incorporate many computing technologies to provide convenient personalized service to users within the home network.
- Recently, much research on the smart home has focused on the home gateway. Using a home gateway, a smart home can form a peer-to-peer network to provide home network service anytime, anywhere.
- Many existing, well-established home automation systems are based on wired communication. This does not pose a problem until the system is planned well in advance and installed during the physical construction of the building.
- But for already existing buildings the implementation cost goes very high. In contrast, Wireless systems can be of great help for automation systems. With the advancement of wireless technologies such as Wi-Fi, cloud networks in the recent past, wireless systems are used every day and everywhere.

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- Most of the communication using Past has Radio Frequency for controlling devices and movement of the robot.

PROPOSED SYSTEM

Principal of Operation

The proposed system uses Microcontroller, Passive Infrared (PIR) Sensor, Temperature Sensor (LM35), Gas Detection Sensor (MQ6) and other elements. This system uses PIR sensor to detect human beings in the near surroundings of the robot and sends the information to owner. Same like as doing all the sensors. The main focus of the project is controlling the movements is access by owner using face book messenger like sending command like move means the robot will move forward direction. As well as all accessible controls in the owner's manual. The system will automatically change on the basis of sensors' data. This system is designed to be low cost and expandable allowing a variety of devices to be controlled.

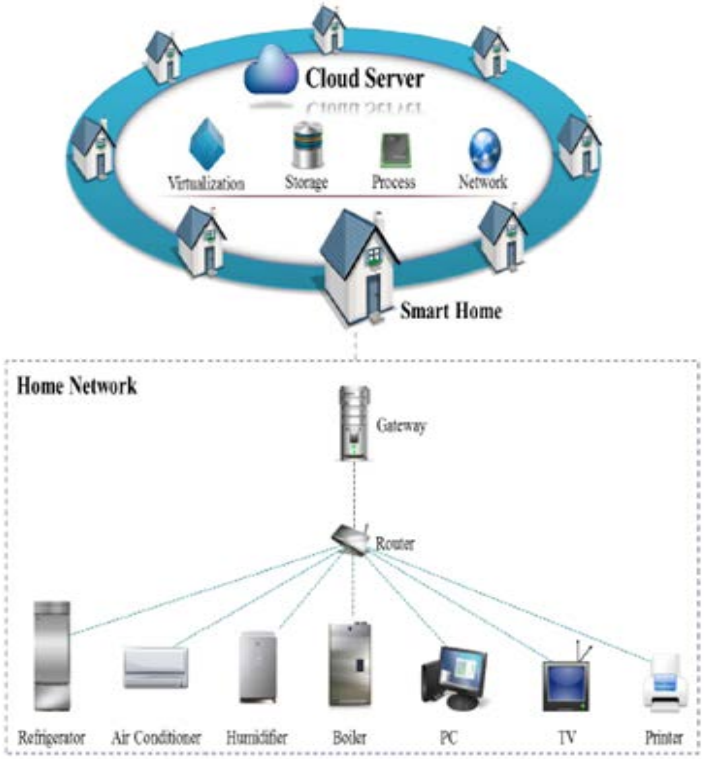

Figure 1: Proposed System Model Architecture Diagram

In our proposal, Social Network using control the Robot movement Like Forward , Reverse, Left, Right and controlling home devices like light, Fan, TV, Fridge,..Etc. we proposed for

CONCLUSION

This system can also be used in the disaster (earthquakes, mine collapse) areas to find any injured persons and give information to rescue teams. Also it can be used as a spy robot.

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