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A PATH FOR HORIZING YOUR INNOVATIVE WORK

INTERNET OF THINGS IS AN ADVANCED CONCEPT OF ICT FOR BETTER HUMAN LIFE

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Abstract: Internet of things is a currently advanced topic of ICT in which all devices, services and application are collaborating in order to reduce the human intervention for better future life. IOT is a new evaluation in the field of technological advancement & taking place around the world today. This idea come to the life by evolving to the different architecture such as sensing technology in the environment that collect the data and connect itself to the cloud and the number of the cloud services that host the data from the environment. The utilization of wireless sensor networks and cloud computing get together a popular strategy in the field of IOT era. Considering the advantages of IOT and its benefits to monitor the various products for better management.

Keywords: Internet, Human Life



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INTRODUCTION

The internet plays a major role for the human being as a producer as a consumer for sharing a information of world. But in future not only information sharing but also the things will be connected into internet to various devices, services application and communication each other without human intervention. The web of object in IOT identifier and virtualized the things for connection and communication [1]. If produce a new services and connecting things through internet to get better management and intervention of human and well fair of human life. The thing in web of object is embedded through web protocol and accessible the services to that things [2].

Internet of things is a important part of new evaluation in information technology after the computer internet and communications by using the computer internet & communications. By using the computer internet, sensor, global position and other information sensing device & by means of web protocol everything can be connected with internet that can be worked for information interchange & communication work for intelligence identify, locate monitor, find the track and manage in a network [3]. The advance development of internet and ICT and its further extension and expansion to connect various varieties of networks and communicate by the way of multinetwork.

2. ARCHITECTURE OF IOT:

The number of things is connected to the internet by this idea it is necessary to develop an adequate architecture that helps the easy connectivity, control, communication and necessary application [4]. In other words we can say that it make sense to share devices and information in an adequate architectural approach for IOT to better tomorrow such as smart phone world. The system architecture is a primary need to guide the specific design. For that kind a various sensing layers are required to control and communicate with things. The various sensing layers consist of RFID tags, reader, sensor networks, sound, temperature, vibration sensor; 2-Dimensional bar code and variety of terminals are mainly used for functioning, controlling and managing the various devices (things) to perform the smooth functioning of IOT and its application [5]. The basic work of sensing layer consists of data acquisition to short distance transmission and information and data sense by devices. That can be passed through the gateway via bus, wireless transmission technology and information transmitted to the upper layer.

Network layer define on the basis of existing networks including network integration and expansion form by multiple heterogeneous networks. The primary goal of architecture of IOT is to transmit the data with higher reliability and high security and accessibility particularly in case of long distance transmission [6]. The main role of this architecture is the application layer for driving a force and development of things to build in one intact network. These layers solve the problem of information transmission and man machine interface. The data transmit from network layer is to be processed by computer system and connect to the people by variety of devices.

3. INTERNET OF OBJECTS:

The internet of things is also referred as the internet of objects that means wireless networks between various objects. The term internet of object describes the number of technologies that come out the real world of physical objects by expanding the current concept of internet. And by providing connection, communication and internet between the devices and physical objects or things is a fast going trained is often referred to as internet of object that can change everything including our daily life. IOT is a next generation of internet and its ability to gathered, analyze and distribute the data and information and ability to connect the physical object for example internet of things can connect every objects like Smartphone [7], Internet TV, tablets, smart watches, ipod and to every internet connected devices link together in the form of communications between things and people that can forward towards the quality of life also increase the performance of computer networks and atomization of offices, homes and every field work like agriculture or cultivation of lands with the help of introduction of IOT [8]. The home atomization are more popular and various wireless technologies that can support the remote data transfer that can be sense and controlled by wireless technology such as Wi-Fi ,RFID, Bluetooth, Cellular network [9] .

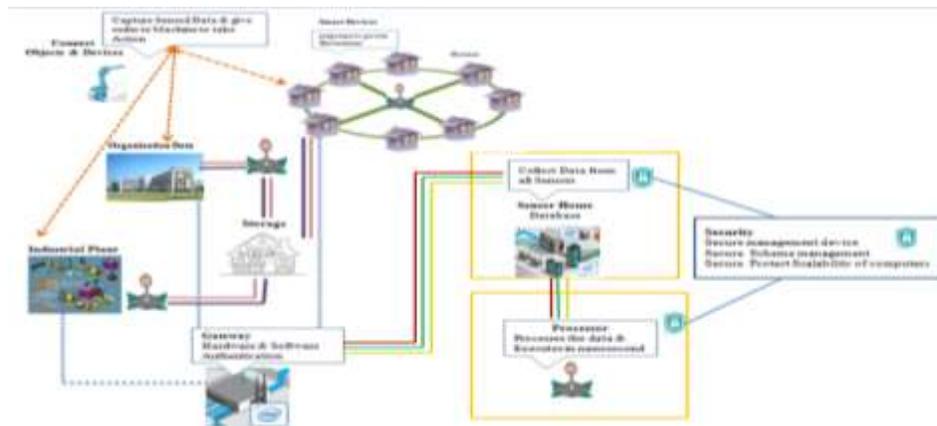


Fig: Architecture of IOT

The atomization of the system can be broadly separated by two categories

1. Locally control system
2. Remotely control system

The locally control system management by stationary or wireless interface whereas remotely control system connect through the internet and allow to control that devices like mobile device, personal computer ,Laptops, IPod, tablet, etc. The internet between the devices provide user friendly interface that can easily monitor and control remotely so that we can use true power of wireless technology [10,11]. Considering to the feasibility study it might be said that it would be cost effective due to the combine use of overall devices instead of personal use for a particular things only that is better way to use this globally [12].

With the help of cloud networking and available data infrastructure allow organizer to monitor, manage and control their personal device through internet and wireless technology [13]. For example Bluetooth can be used in home appliance by using and android smart phone to control the system without using the internet controllability [14].

4. CONCLUSION:

In the vision of the ICT and development of internet reach to the IOT that connect the physical devices to the internet by using the wireless technology. The utility of IOT increasing day by day and control by sensing remotely or locally by using the wireless system like RFID, Wi-Fi, remote sensing devices, Bluetooth, etc. By connecting IOT in framework technology the internet, the web, social networking like facebook, twitter, Whatsup and millions of Smart Phone Apps and

these qualitatively change the society life style. The researchers arrive the problem due to number of connection of physical devices and logical and cyber world. The openness of system give challenge to the security and piracy.

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