

speed so new techniques are used for enhancing the home automation.

II. IOT ARCHITECTURE:

The Internet of Things (IoT) is nothing but connecting everyday objects like Internet TV s, smart phones, sensors and or actuators to the Internet where this device linked together intelligently which enables new forms of communication between people and things, and between things themselves[2]. The internet where the existing network of internet to the computer systems will connect to the real world objects or things. Things may include any objects, home appliances, devices, vehicles, etc. And when these things connect to the internet in specific infrastructure via standard protocols then the whole system is said to be Internet of Things (IoT). i.e Things: Things may be real or virtual, moving or steady but things will be active participants in the whole system. Things will communicate with each other, called as things-to-things communication.

Things will also able to communicate or interact with human then it is called as things-to-human communication. However, the internet of things is not just deep vision for future. It is already here and is having an impact on more than just technological development.[3] These things and communicating objects which used to communicate with the internet can configure themselves independently and can operate without human intervention. Figure 1 shows the architecture of IoT .

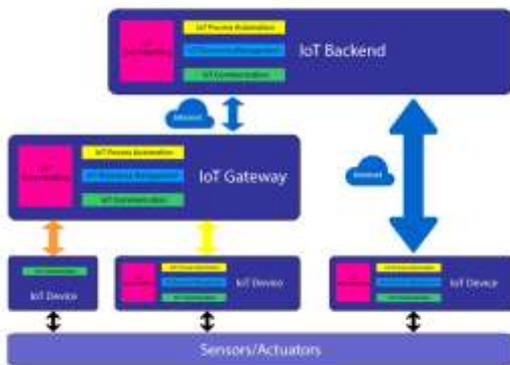


Figure 1 : Architecture of IOT

III. MOTIVATION

To improve standard of living it is needed to change home environmental condition according to the mood of the habitants without any interruption. In some cases physically disable or handicapped people are not able move much from one place so for them it is very difficult to access regular domestic appliances. For them it is essential to develop a system which requires less human interaction. We need energy efficient, flexible system which also detect the fault in the devices automatically and notify the related technician and user about the problem automatically. To provide all this facilities in developing countries like India we need a much smart system which provides all the above facilities in low price and less energy consumption.

IV. LITERATURE SURVEY

In recent years home automation popularity has been increasing mainly because of its simplicity through smartphone connectivity and higher affordability. In home automation system various electrical devices in a house interacts with each other by use of the information technology to increase energy efficiency and security. Although there are some problems with this system like complexity, high competition with other vendors, incompatible standards and high expense which results to this home automation system is limited to wealthy or ambitious users only [4].

Many of the home automation systems that are commercially available can be separated into two categories: locally controlled systems and remotely controlled systems. Locally controlled systems use an in-home controller to achieve home automation. This allows users complete use of their automation system from within their home via a stationary or wireless interface. Remotely controlled systems use an Internet connection or integration with an existing home security system to allow the user complete control of their system from their mobile device, personal computer, or via telephone from their home security provider. [3]

In one study researchers introduces home automation systems based on Bluetooth, that using Android Smart phones. The devices that we used to access and control is physically connected to a Bluetooth controller. The Smart phone is then connected to it by using in-build Bluetooth connectivity which control that devices. In some other case researchers also provide network interoperability and one important feature that is remote access to control home devices or appliances using home gateways [5][7].

V. PROPOSED METHOD

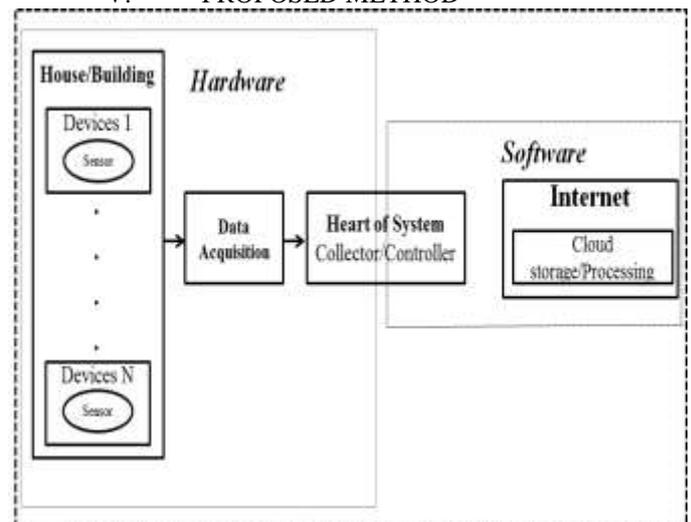


Figure 2: Generalized block diagram of proposed work

1) We use different sensors (light, temp., level, humidity) to collect the data to understand the environmental conditions and also to detect any fault in devices. It is necessary to act devices according to the inhabitant requirement.

