INTERNET OF THINGS (IOT) IN HOUSEHOLD ITEMS

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One of the most important technologies of the 21st century is **IoT (Internet of Things)**. The real-world things/Physical objects could be connected over a network and activities like controlling, monitoring of the objects with the data collection is possible with minimum human intervention. This technology helps to build a smart and secured home.

Essentially the objects are with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet. we can connect everyday objects— household appliances like washing machine, Television, Fan, Air conditioner, Fridge, car, water heater, baby monitor etc. to the internet via embedded devices and can have seamless communication is possible between people, processes, and things.

Key words

IoT   -   Internet of Things SaaS   -   Software as a Service
RFID -   Radio frequency identification

Cloud -   Platform to store applications, store and steam data etc. seamlessly.

Introduction

In early 90's the embedded programing language Java was invented by James Gosling for a similar kind of **IoT** requirement but in 1999 the **IoT** term was coined by Kevin Ashton, and he put together an architecture for it. He proposed (RFID) Radio frequency identification chips into the objects and tracked them over internet.

In 2008 and 2009 IoT was fully conceived and currently over 25 billion connected devices are in the world.

Now the IoT comes with prebuilt applications/ software-as-a-service (SaaS) applications that can collect, analyze and present captured IoT sensor data to the users via dashboards.

This IoT technology was made possible widely due to low-cost and low-power sensor technology, low-cost computing, mobile technologies for access, cloud for low-cost data storage with good availability and Big data for data analytics etc.
The affordable and reliable sensors are making IoT technology possible for more manufacturers. Now IoT programing is done in Java, C, C++, Python, PHPoC, Java script etc.