

INTERNET OF THINGS (IOT)

BASED HOSPITAL AUTOMATION AND IMPLEMENTATION OF REAL TIME E-METERING USING LOW POWER E-CONTROLLER AS WEB SERVER

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ABSTRACT- Hospital Automation is the technology stemming from web of things. To make a smart hospital to provide comfort for human life is the main focus of the world. In the current automated industry Embedded systems and IOT (Internet of Things) is becoming highly efficient and mandatory to exhibit the potential market. While performing various operations, power consumption and efficiency is an important issue with the comfort level of user. The combination of embedded technology and IOT is represented by using E-controller which is the apt one for system's power consumption and efficiency experiments with size factor. The main objective of the system is real time information data monitoring of energy consumption. The paper introduces the implementation of IOT using embedded chips technology to simplify the peripheral circuit and to lower the power consumption, thereby providing a high quality solution for a Smart Hospital Management and Information system (HMIS).

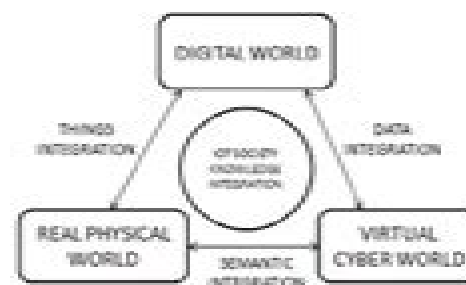
KEYWORDS- Internet of Things (IOT), E-controller, E-metering, Web application, MQTT protocol, Asp.Net, LAMP Web technology.

I. INTRODUCTION

IOT is one of the platforms of today's smart hospital and management systems. IOT allows people and things to be connected anytime, anywhere, with anything and anyone, ideally using any network and service. The vision of IOT has evolved due to a convergence of multiple technologies like wireless communication to internet, Machine-To-Machine (M2M) communications, embedded and web technology. IOT is based on three visions: Things oriented vision, Internet oriented vision and Semantic oriented vision, and Semantic oriented vision.

- Things oriented vision provides the perspective that all the real physical objects can have the sensors attached to get the real time information from them.
- Internet oriented vision provides the perspective that all the device can be connected through internet and can be described as smart objects.

- Semantic oriented vision provides the perspective that all the data collected from sensors need to be analyzed for interpretation.



II. LITERATURE SURVEY

In large data centers and server farms energy is a major problem. In such cases, Microcontroller which consumes low power can also be used as embedded web server [1]. Using many different communication technologies a smart hospital system is built, providing a stable, reliable and a very practical system [2]. The greatest issue in smart hospital automation is that all the sensors that are used belong to different manufacturers. It results in a proliferation of incompatible protocol standards used by various company vendors, which makes the smooth integration of different appliances a very critical process [3]. The best way to combat this problem is to connect all hardware appliances via Internet. A software system implements HTTP protocol and an embedded web server is a component of it. The size of the embedded web server greatly depends on the software system [4]. Generally the limited memory capacity of an embedded device is no more than several megabytes. The system is capable of predicting the real time needs of users. This automated control system

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