

AN EFFICIENT PATIENT HEALTH MONITORING SYSTEM USING IOT FOR HEALTH CARE APPLICATIONS

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Abstract: IOT Internet of Things is the paradigm of new technology which connected through the internet among different fields. Nowadays, IOT used for health care applications that calculate body positions in different angle with multiple sensors. A web server to smart phone is also application developed in a displaying the notification and data sensor for patient to doctor or hospital web to doctor mobile application. Then the jaundice is a yellow color of the skin that is the new born infant. This research has a create to a real time monitor of low cost using jaundice meter and develop a system in a web server to mobile application in a new born. Then the using in a healthcare hospitals centre and intensive care unit neonatal. When the 24 hour operation is achieved with the experimental results.

Keywords: internet of things, Wi-Fi, jaundice, bilirubin, Atmega328, LM325temp sensor, crystal oscillator

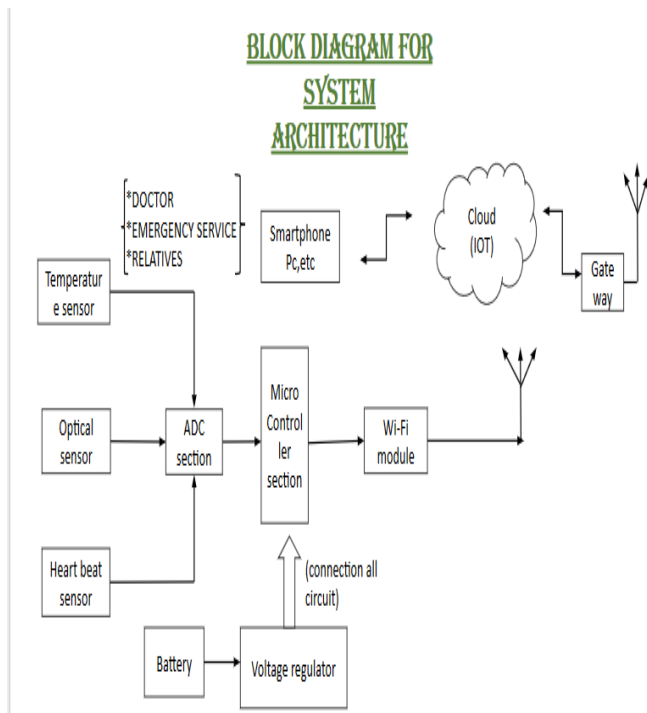
1. INTRODUCTION

IOT Internet of Things is the technology new connected through the internet among different fields. The paper proposes the IOT based as a health monitoring system with Wi-Fi to detect the body parameters like temperature, heart rate and also determine jaundice [1]. A web based smart phone wise all the mobile connectivity anywhere anytime and the sensor data are displaying via web application. The main aim of this research is to create and develop low cost jaundice meter for real-time in newborn based

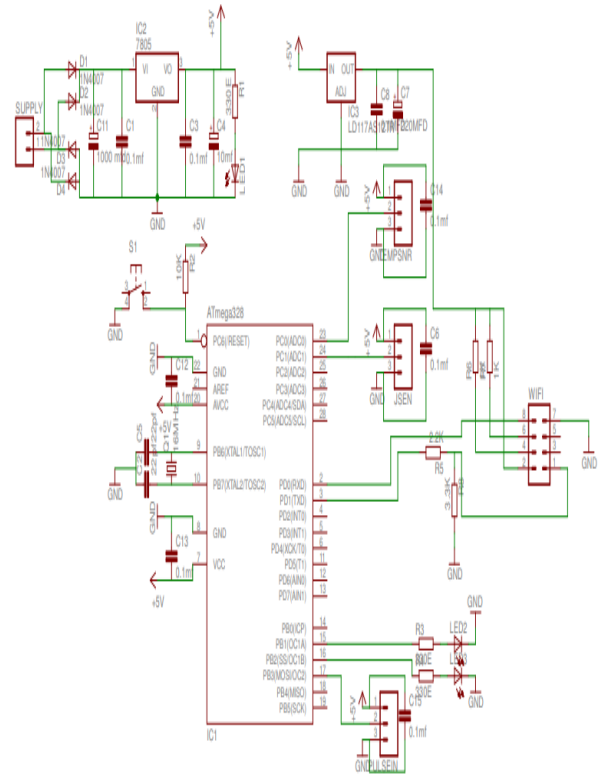
researching overproduced of bilirubin. Provides technology modern and sophisticated of birth leads our human life and their daily routine become as easy as possible. When the metabolisms of the newborn just started to developed [2], also a body area sensor network calculates the health monitoring around our human body at anytime and anywhere. Jaundice when the level appears bilirubin in the rises serum above 250ml [3], has everybody bilirubin another technique as a by using a jaundice meter.

II. SYSTEM DESCRIPTION

A. Block diagram

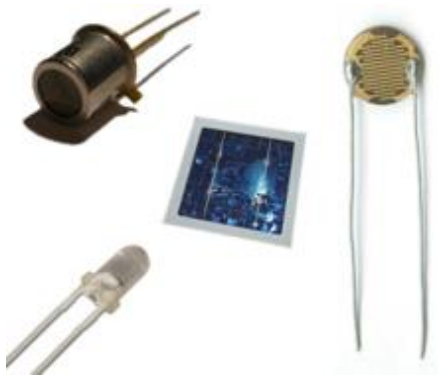


B. Circuit diagram



C. Working

This article configure IOT in healthcare applications which consists of three types of sensors. 1) Temperature sensor 2) Heartbeat sensor 3) Jaundice level and wearable sensor node, then Wi-Fi transmit through IOT gateway for emergency notification and sensor data visualization. The main component of the wearable sensor network include microcontroller ATMEGA328 and wifi module ES01are using [4]. Then the jaundice level is calculated at the optical sensor and the crystal oscillator. This input and output wearable sensors



I. Sensor Optical

Sensor Optical is used to convert the electronic signal into light rays [10]. The physical quantity of light is measured by using this sensor.

III. CONCLUSION

Now the present time is very critical to the checking doctor's hospital patients not well. Then they do not get a good treatment in general diseases, that is our research as a hospital to doctor and patient to doctor connecting with a web server to get the application that gives good health checkup and these cultivations.

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