**Zigbee Based Advanced Near Field Communication for Hospital Appointment System**

**ABSTRACT**

Doctor rendezvous and remedy arrangement is essential to control and additionally to keep music of day after day functionalities in medical quarter. So with a view to have a properly appointment scheduling device helps us to supply medication in time and convenient get admission to scientific provider which enhance affected person pride and doctor’s performance .In most emergency case the patient rush to the clinic and has to go Registration manner which is too prolonged, someday it’s additionally viable to get date for the consulting form health practitioner’s. Thus to triumph over this trouble an try has been done via growing an mobile application and making the medication facility on-line .Even after this plenty oppositions to the sufferers still there exist the environs of awaiting medicinal drug shipping so to enhance the medicine transport facility (NFC SYSTEM )was advanced it is referred to as Near Field Communication device . In the NFC System the affected person only want to tapped the NFC appointment card at appointment Kiosk in health center or health center for making an appointment.

**INTRODUCTION**

The primary purpose at the back of this undertaking is to develop a gadget wherein the patient will get a entire time delivery of medication and might restore appointment in step with his time table. Before presenting of this device the affected person has to anticipate remedy for long time or even has too face issues concerning to appointment fixing. Most of the time in causality cases the affected person‘s relative has too fill registration shape and then handiest the patient changed into attained with the aid of the medical doctor’s .Thus now by the use of this undertaking idea the affected person no greater need to watch for long term and must undergo lengthy registration technique.

**EXISTING SYSTEM**

Today the medication and appointment gadget is based on first come first serve bases this technique works fine if the no of the sufferers are less. But as more affected person need to get and appointment in line with their handy, the above approach falls brief and results in unsuitable medication shipping to emergency sufferers. Even in case of road accidents the patient has to fill the registration shape that's extraordinarily inconvenient and painful for the patient.

**EXISTING SYSTEM DISADVANTAGE**

* Appointment in line not with their handy
* Approach falls brief and results in unsuitable medication shipping to emergency sufferers.
* Even in case of road accidents the patient has to fill the registration shape that's extraordinarily inconvenient and painful for the patient.

**PROPOSED SYSTEM**

To triumph over the prevailing gadget troubles the (Near Field Communication System) NFCS Was developed in this device the database of the patient needs to be loaded and according to the concern of the affected person, (precedence depends on age and the hassle thru which the affected person suffer via) a device would call to the concerned affected person on the way to restoration the following appointment. In this device the patient can return his /her rendezvous thru net, also the sensor community that is linked to his whole frame will provide the everyday health checkup report to the nearby medical institution. The figure.1 block diagram indicates the glide of the NFC gadget wherein the patient question comes via the sensor i.e. Coronary heart beat sensor or via zigbee module and that records is given via the GSM module in form of SMS to the physician or to the NFC device. The block diagram proven above is the flow diagram of the worried task. In which the Bluetooth in the cell communicates through Bluetooth module related to the relevant gadget which constitute of Arm Processor (LPC2148). The LPC2148 microprocessor belongs to ARM 7 own family. The LPC2148 board is a 32 bit ARM7 TDMI-S Microprocessor with real-time emulation. It consist of eight kilobyte to forty kilobyte of on chip static RAM and 32kb to 512kB of on chip flash reminiscence, the micro processor works with 12 MHz crystal frequency .The processor also support distinctive protocols suite consisting of ISP (In System Programming), 10 bit ADC affords variable analogue output, 32-bit timers with external event counter (with four seize and suit channel). The processor additionally has RTC in-built hence extra hardware for the timer is not required.Lpc2148 has 2 serial terminals that is called as UART0 and UART1.The same controller also has SPI and I2C bus with a speed of (400kbit/s). The Arm LPC2148 Board shown in figure.2 also supports VGA, and SD/MMC card’s those modules’ are inbuilt in arm processor. The board also helps AUDIO –MP3 format, additionally a PS2 connection are also possible thru which we will join PS2 keyboard. Thus the usage of arm 32 bit processor can deal with more application than traditional 8051 8 bit controller.

BLOCK DIAGRAM



**PROPOSED SYSTEM ADVANTAGE**

* A cell app has advanced in which the person can repair the date for the appointment.
* And get medication consulting from the health practitioner.
* The complete question list is ship to the principle machine thru Bluetooth.

HARDWARE REQUIREMENT

* ARM LPC2148
* Bluetooth
* Zigbee
* LCD Display

SOFTWARE REQUIREMENT

* KEIL
* EMBEDDED C