Autonomous Hospital Management System Using Bluetooth Technology Developed on Python

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Abstract- In this project a hospital management system is developed by using a Bluetooth connection. Usually in the hospitals and medical clinics Wireless LAN/WLAN or Wi-Fi is used for data transfer and network connection. The Electro-Magnetic Frequency (EMF) generated from the WLAN ranges from 0 to 300 GHz. Such a high range of frequency is very harmful for the patients since the Wi-Fi has been anecdotally linked to electromagnetic hypersensitivity. However the Bluetooth uses the microwave spectrum in the range of 2.4 GHz and 2.4835 GHz. The radiated output power of the Bluetooth devices vary from 1 to 100 MW and can operate continuously or sporadically. So total exposure to the EMF radiation is quite variable. Thus the Bluetooth device has never been linked to any serious health hazard. Implementation of the project in reality will help to reduce the manpower and in the efficient management of the hospital. The patients can take appointment just by using an embedded Bluetooth device without standing in a queue or waiting at the Appointment Desk. The nurse updates each and every details of the patient regularly to the main server so that by the help of the Bluetooth connection both the doctor and the patient's relatives can look whichever documents or information they want regarding that patient. Additionally the hospital canteen,medicine store and the Global Positioning System (GPS) have been incorporated in the project.One can know the direction to reach the particular room number with the help of Bluetooth device.Nurse can order the medicine from medicine store through the Bluetooth device.If it is available it will be sent to the patient and bill will get appended. Automated Alarm System for the visitor's entry and exit within a time is facilitated by tracking the visitor's Media Access Control (MAC) -ID. Ambulance and parking facility are also developed by using MAC-ID tracker.The whole algorithm is developed using the Python language.

Index Terms- Bluetooth, Hospital management, MAC-ID, Python, Health hazard

I. INTRODUCTION

In hospitals we often face a lot of problem. Let us focus on the problems which are often faced by the common people.

In the help desk the patients often have to stand in the queue. For getting appointments from a doctor(OPD) or even for getting admitted in the hospital (IPD) and often standing in such a long queue may bring distress amongst the patients.

Within the premise of hospital usage of LAN or Wi-Fi can not be allowed. Since the usage of these can cause severe problem to the patient due to the waves generated. The high signal strength medium such as wi-fi etc can interfere with the delicate medical devices such as pacemakers etc. For maintaining a large Area large database are to be created. And the doctor may not have such time to go all the data of the patients at a time. All the medical report, the medicine table, the diet charts and also the last update given by the doctors and it will be updated in regular hours.If the patient's relatives have any inquiries about the patient and if the doctor is not available in that hour, there will be no one to answer their queries. The canteen of the hospital does not remain well organised. But the functionality of the canteen is also simultaneously important.During the Visiting hours the patients were given token cards generally but loosing the token cards are a very common incident.Proper care of the parking area of the hospital must be taken. As the cars of the doctors, staffs,visitors and also the ambulances must be parked in different section with proper identities.

II. WHY PYTHON??

Python is a remarkably powerful dynamic programming language that is used in a wide variety of application domain. Python is often compared to Tcl, Perl, Ruby, Scheme or Java. Some of its key distinguishing features include:

- very clear, readable syntax
- strong introspection capabilities
- intuitive object orientation
- natural expression of procedural code
- full modularity, supporting hierarchical packages
- exception-based error handling
- very high level dynamic data types
- extensive standard libraries and third party modules for virtually every task
- extensions and modules easily written in C, C++ (or Java for Jython, or .NET languages for IronPython)
- embeddable within applications as a scripting interface

Thus, Python is a programming language using which we can work more quickly and integrate our systems more effectively. We can use Python to obtain a gain in productivity and also lower maintenance costs.

Python supports multiple programming paradigms, primarily but not limited to object-oriented, imperative and, to a lesser extent, functional programming styles. It features a

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Autonomous Hospital Management System Using Bluetooth:

This book delves into Autonomous Hospital Management System Using Bluetooth. Autonomous Hospital Management System Using Bluetooth is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Autonomous Hospital Management System Using Bluetooth, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Autonomous Hospital Management System Using Bluetooth
   - Chapter 2: Essential Elements of Autonomous Hospital Management System Using Bluetooth
   - Chapter 3: Autonomous Hospital Management System Using Bluetooth in Everyday Life
   - Chapter 4: Autonomous Hospital Management System Using Bluetooth in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Autonomous Hospital Management System Using Bluetooth. This chapter will explore what Autonomous Hospital Management System Using Bluetooth is, why Autonomous Hospital Management System Using Bluetooth is vital, and how to effectively learn about Autonomous Hospital Management System Using Bluetooth.

3. In chapter 2, this book will delve into the foundational concepts of Autonomous Hospital Management System Using Bluetooth. This chapter will elucidate the essential principles that must be understood to grasp Autonomous Hospital Management System Using Bluetooth in its entirety.

4. In chapter 3, the author will examine the practical applications of Autonomous Hospital Management System Using Bluetooth in daily life. The third chapter will showcase real-world examples of how Autonomous Hospital Management System Using Bluetooth can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Autonomous Hospital Management System Using Bluetooth in specific contexts. The fourth chapter will explore how Autonomous Hospital Management System Using Bluetooth is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Autonomous Hospital Management System Using Bluetooth. This chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Autonomous Hospital Management System Using Bluetooth.

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