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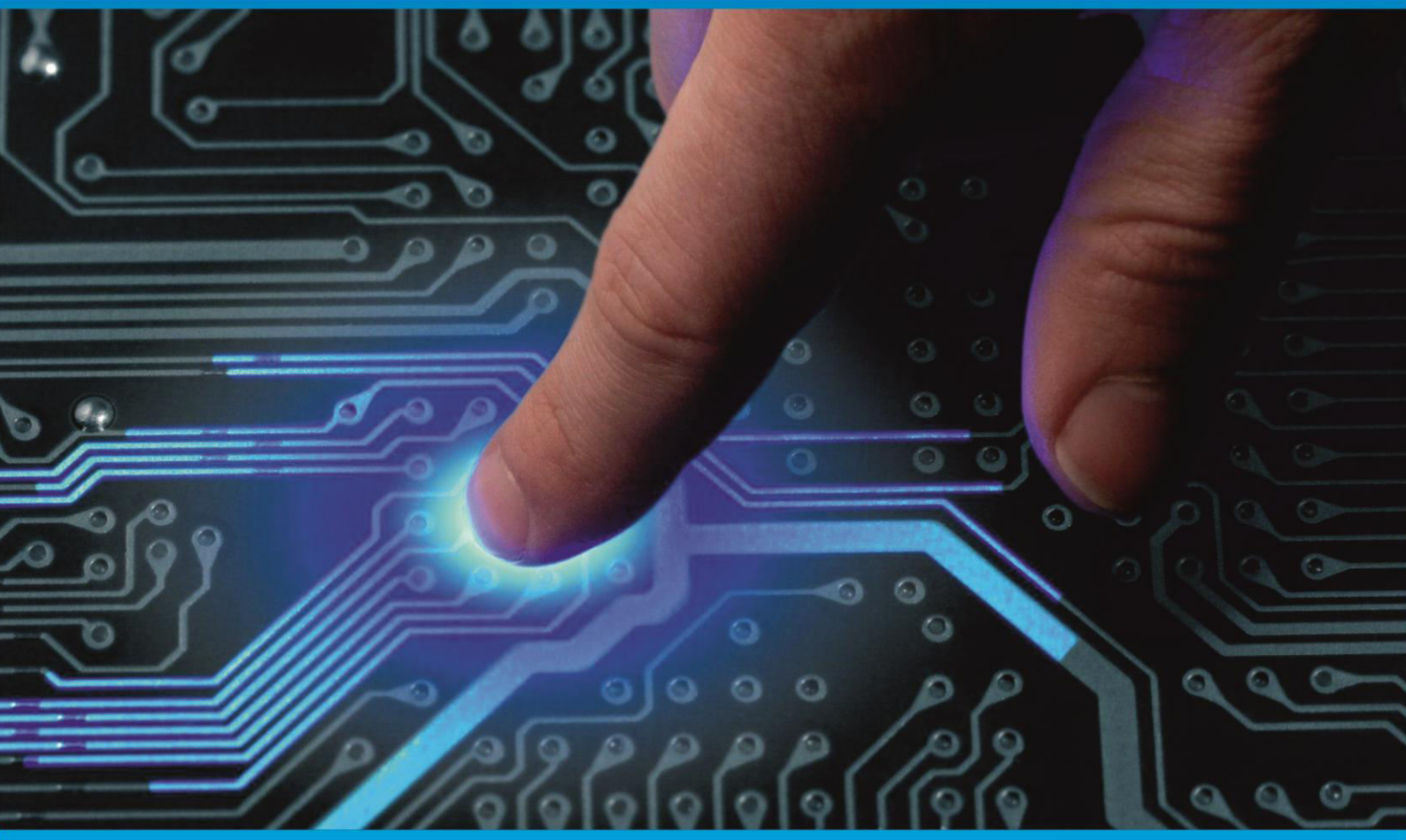

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Smart Andriod Application for 24*7 Emergency Need

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ABSTRACT - An efficient bed management system tool, Smart Android application for 24*7 Emergency Need, is being developed within the hospital environment to meet the health industry's patient management protocols and to address community concerns. Inefficiencies and continuing difficulties in management of available and appropriate beds within hospitals have not been overcome and continue to be a source of practical, financial and management frustration.
This system is a practical, flexible and dynamic tool that aids planning and management of bed numbers, types and location for the allocation of in-patients. It also help in record management,patient enters the hospital the workflow starts as the reception user creates new record by entering the personal info and sends the record to assigned department; at this stage the nurse starts update the record by entering the physician comments, required treatment, and sends lab test when it is required. The procedure continues as long as the patient still in the hospital. At last when the patient recovered or died record is updated. Suppose in some critical situation like in car accident a person having huge injury so that we can search for a nearly hospital depends upon injury bed booking for that person and also see nearby ambulance of that hospital and book the ambulance.User can track the ambulance using GPS and ant colony algorithm can be used to find the shortest path.

KEYWORDS: patients, lab test, ambulance,GPS

I. INTRODUCTION

Through increased public scrutiny there is also a greater degree of accountability required from health care professionals with regard to facilities management and information administration. Our hospitals are running at peak capacity which almost guarantees queuing in the emergency department for available beds. Bed availability is significant as a bed can be viewed as "one of the most fundamental inputs in the provision of acute health care". Using new and emerging technologies in the areas of healthcare sector will help to save many lives.

The system Smart app for 24*7 Emergency Need is a centralized database contains the in-patient record. The database record contains the patient personal info, department lies-in, physician, tours, ,treatment and lab results.

II. LITERATURE SURVEY

Title: Doctor who? – A customizable Android Application for Integrated Health Care.
Author name: Md. Nasfikur Khan, A K H E Mashuk, Mehdi Alam
Description: "Doctor who?" has been designed and developed, which makes an easy and effective communications with the users to the doctors and hospitals. Using this app, patients can make appointment with doctors of different specialties in different locations and can take help for a 24/7 online medical consultancy and emergency ambulance service.
Title: Design and implementation of doctor-patient interaction system based
Author name: Ran Wei ; Zhimin Yang
Description: It is only doctor and patient interaction. Patient has to tell about the medical history by his own. He can take online appointment and can get query answered by doctor.
Title: A Fast Interactive Search System for Healthcare Services
Author name: Maria Daltayanni ; Chunye Wang ; Ram Akella

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Description: System is made which will store info user login and get all info. If doctor wants to access info still patient has to login. Patient have to remember his credential. It will be difficult for patient to remember credential if he is in critical situation.

Title: Smart Healthcare in the Era of Internet-of-Things

Author name: Tanesh Kumar ; An Braeken ; Madhusanka Liyanage ; Mika Ylianttila.

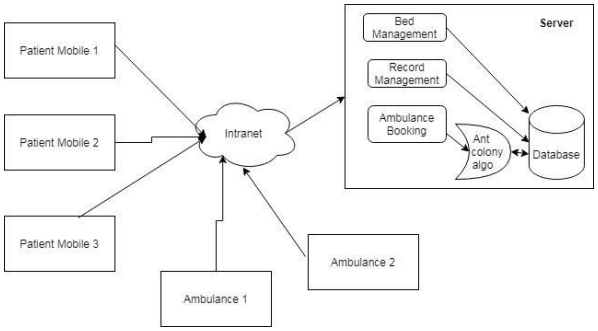
Description: The development in the Internet-of-Things (IoT) has advanced healthcare. The direction of healthcare has been transformed from treatment to health management. Thus, more data are being generated and aggregated than ever before while healthcare moves toward patient-oriented and analytic application. This paper discusses the different aspects of smart healthcare along with the health data and patient-oriented health management.

III. PROBLEM DEFINATION

One of the major problems within a hospital environment is dealing with the bottleneck of availability of beds and there record management. This project will help to get real time bed information, patient record management ambulance booking system and ambulance tracking system using GPS.

IV. SYSTEM ARCHITECTURE

Patient will register through android App.
Once register they can select hospital, it will show all the vacant bed, total bed.
Patient can select any bed and that bed location will marked as book.
Patient can see record or upload record, it can also share records with doctor.
If ambulance is record, it will send notification to near by ambulance and than driver can decide if he wants to accept the request or not.



Module 1: Registration and Login for Patient.
Module 2: View and Book hospital Bed.
Module 3: Update, Share or add medical history
Module 4: Near By ambulance and location view on map.

V. CONCLUSIONS

We will be creating an android app which can be used to Book and bed in hospital ,record management of patient medical history and can book ambulance in emergency situation.

REFERENCES

1 Paré, G.; Trudel, M.C.; Forget, P. Adoption, use, and impact of e-booking in private medical practices: Mixed-methods evaluation of a two-year showcase project in Canada
2 Wang, W.T.; Gupta, D. Adaptive Appointment Systems with Patient Preferences
3 Doctor who? – A customizable Android Application for Integrated Health Care.
4 Design and implementation of doctor-patient interaction system based
5 A Fast Interactive Search System for Healthcare Services

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