

Healthcare Management System In Android – “meDKare” Application

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Abstract - The main objective of the Hospital Management System is to provide quick guidance for the users who are in need of doctor (general medicine or specialist) and the medicines in nearby locations. The purpose of the project is to build a hybrid android application program to reduce the manual work for managing the user details, hospital and pharmaceutical details. It tracks all the details about the users from the centralized server and patient can find the nearest hospitals with help of Geo Location. This application enables the user to know current availability of doctors and medicines via the instant update provided by the application.

Key Words: Geo location, Hybrid android application, Medicine, Specialist, Current availability, Centralized server.

1. INTRODUCTION

Healthcare consistently has been an important thoughtful concern all the time for humankind. In the last decade, with the fast development in web and internet technologies, smart hospitals have developed manifest in our lives. Advancement in the technology has changed the world so far along with development of smart phones and other handheld gadgets. Good health is the basic necessity of good life. Several technologies and gadgets in last few years have been developed and have promoted to monitor the healthcare and other hospital’s critical assets.

2. SYSTEM ANALYSIS

2.1 Existing System

Many applications are available to provide information about the locations of the doctors and the hospitals. However, users find difficult as the information must have been updated long before.

Our application let the users to know where the particular specialist is available nearby and whether he/she is present at the instant of time.

Secondly, numerous e-shopping sites are available to buy every medicines and drugs. But, they reach the customer only after few days. In the case, when the patient approach a pharmacy, that particular store may or may not contain the required product in stock. Consequently, the patient has to go in search of some other store.

Our application provides the user the location of pharmaceutical store to buy the medicines that he/she is

searching for. And also, the application provides the stock availability and the cost of required medicines.

2.2 Proposed System

The system will be able to improve the workflow of the hospital starting from registration until billing to the patient. At the same time, it will maintain all the data that can be accessed anytime. In this system the entire process will be managed by the admin. Our project Hospital Management System includes registration of patients, storing their details into the system and also computerized billing in the pharmacy and labs. Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each patient id. Admin alone can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast. The main thing of our project is patient does not submit any previous reports. In this system user get a separate user id. It holds the all details of patient. So the doctor easily understand the Patient full detail. Admin also get the separate user id for the individual hospital.

2.3 Merits Of Proposed System

- Easy to Access
- Improve Efficiency
- Increased Data Security and Retrieve ability
- Patient can easily find the hospitals and medicines

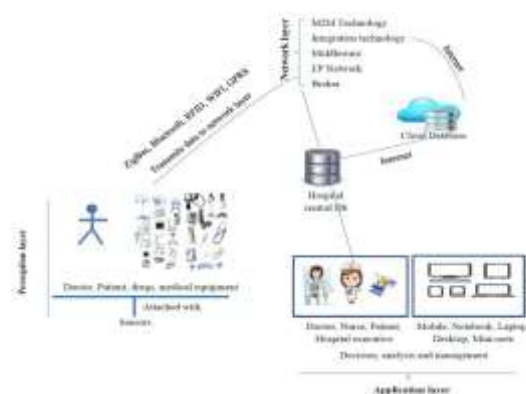


Fig -1: System Architecture

3. APPLICATION SEGMENTS

- To check the availability of doctors and their locations.
- To reckon the hours of waiting for consultation.
- To forage the stock availability and the cost of medicines in nearby pharmaceuticals along with their locations.

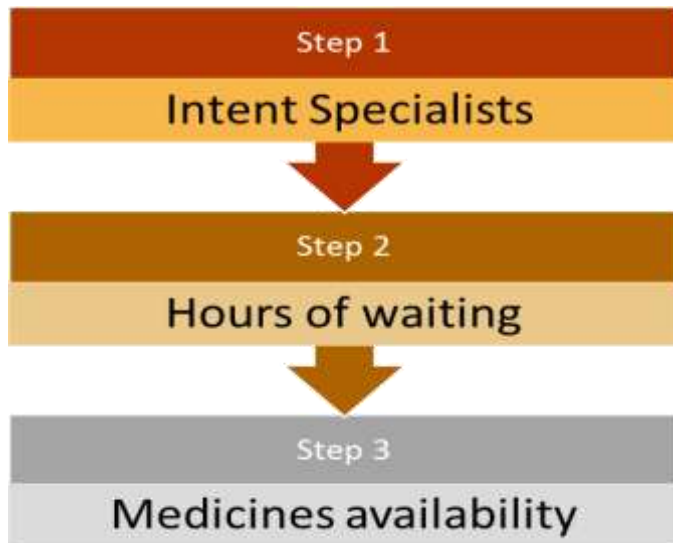


Chart -1: Segments of Applications

4. IMPLEMENTATION

4.1 Patient Module

- Login
- Registration
- Search Hospital Name
- View Symptoms
- Add Symptoms
- View Report
- View Treatment and Cost Details

4.2 Doctor Module

- Login
- Registration
- View Patient Details
- View Patient Symptoms and Report details
- Add Symptoms
- Add Reports for Patient
- Add treatment details

4.3 Admin Module

- Login
- View patient details
- View doctor details
- Upload cost details for treatment
- Blood donator
- Upload pharmacy details
- Update stock availability

5. CONCLUSION

Our application provides quick guidance to the users, in search of the doctor and hospital nearby with the current update. It will render details about the number of patients waiting to consult the particular specialist and the expected hours of waiting for consultation. This system is also designed to impart the availability of intent medicines and drugs in nearby pharmaceutical stores and their location along with the cost of required medicines in particular stores. The future work of this paper is linking all the hospitals and pharmaceuticals globally irrespective of the government or private sector. This will enable every individual to make use of the readily available details whenever there is a need or any emergency.

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