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REVIEW PAPER ON WEB BASED MEDICAL SEARCH ANDROID APPLICATION MISS. RUTUJA G. KAPLE, MISS. JYOTI R. RAMTEKE, MISS. KIRAN G. MEHTA, MR. PRANIL SARODE

Dept. of Computer Science & Engg., DRGITR, Amravati.

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Abstract: Nowadays both ordinary internet users and doctors are increasingly using the web search engines for searching medical information. So we are developing medical search android application that uses to search medical for the specific medicine. We introduce and extend expert system technology in to the search android application domain. This android application uses many key techniques to improve its usability and search result quality. The android application provides a string based query interface to users. But it has some issues within its design. We are focused on certain issues raised during the detailed study on the search engine. In this an enhanced system design is also proposed. The recommended enhancements improve the working and efficiency of the medical search android application. We are developing the android application in which user can enter the name of the medicine and list of medicals will show with some essential information such as medical name, address, contact number, contact person and website etc.

Keywords: Android Mobile, Android application, WiFi, Data Mining.



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Corresponding Author: MISS. RUTUJA G. KAPLE

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INTRODUCTION

Searching medical information in the internet is relevant and common now. Medical search android application is developed for this purpose. Idea behind this is information retrieval which deals with the representation, organization, storage and access to information items. Organization and representation of the information items should provide the user with easy access to the information which he is interested. This android application has a user interface and an answer interface that helps the user for better information retrieval. The design of android application considers the unique requirements of medical search. These features are attractive to ordinary users .so they greatly improves the user satisfaction by performing medical search efficiently and effectively.

Our android application will works as follows, Medical owner should complete the registration process. After that he can login to the system by using its username and password which is used during the registration process. Now he/she can enter the name of medicines and related information. User panel also includes features like update address, medicine information, update contact details etc.

The end user can search the medical for specific medicine. The system will show all the medical information for those specific medicines.[5]

2. LITERATURE REVIEW

A Web-based system for medical Tele consultation:

Sven Loncaric, MiroslavSilovic, Edgar Pek, Anamarija Margan* Faculty of Electrical Engineering and Computing, University of Zagreb, Unska 3,10000 Zagreb, Croatia, *Private practice for Internal Medicine Cres, Croatia

Rural areas have always presented challenging tasks in providing health care services. Rural medical centers are typically smaller and do not have medical specialists available locally. The reason for this is that specialist practices are not self-sustainable in such areas with low concentration of population. For this reason it is necessary to conduct medical consultations with large medical centers. An example of such rural areas is islands, and in fact east coast of Adriatic Sea is characterized by a large number of islands requiring consultation services from large medical centers. In particular, medical consultations between Croatian islands of Cres and Losinj and mainland medical centers in Rijeka and Zagreb are necessary for several reasons. One problem is high risk for the patients in critical condition. Second, transport generates additional

travel expenses. Finally, is sometimes impossible to travel in winter months due to weather and sea conditions, not to mention discomfort to the patient. This serves as a motivation

For development of a medical Tele-consultation system.

A Variant Architecture Design for Intelligent Medical Search Engine

Annu Anna Lal¹, M.Tech. Scholar, Dept. of CSE, Rajagiri School of Engineering and Technology, Kochi, India¹

Anna Alphy², Asst. Professor, Dept. of CSE, Rajagiri School of Engineering and Technology, Kochi, India²

Searching medical information in the internet is relevant and common now. Medical search engines are developed for this purpose. Idea behind this is information retrieval which deals with the representation, organization, storage and access to information items. Organization and representation of the information items should provide the user with easy access to the information which he is interested. iMed is one such medical search engine which is discussed in this paper. iMed have a user interface and an answer interface that helps the user for better information retrieval. The other search engines follows the keyword matching technique and the user have to define the queries. The design of iMed considers the unique requirements of medical search. Instead of insisting searchers to form queries by themselves, iMed have a set of questionnaire. These features are attractive to ordinary users so they greatly improves the user satisfaction by performing medical search efficiently and effectively. But the existing iMed have certain problems associated with it.[2]

2.1 Proposed Objectives:

Implementation:-

The database required for this system is SQLite database for storing details on the tablet itself. It also needs a database on the server which is handled by JSP and SQL.

So what basically is SQLite?

SQLite is a relational database management system contained in a small (~350 KB) C programming library. SQLite is ACID-compliant and implements most of the SQL standard, using a dynamically and weakly typed SQL syntax that does not guarantee the domain integrity. SQLite is a popular choice as embedded database for local/client storage in application software such as

web browsers. It is arguably the most widely deployed database engine, as it is used today by several widespread browsers, operating systems, and embedded systems, among others. OS like Android, Web browsers like Mozilla etc.[3]

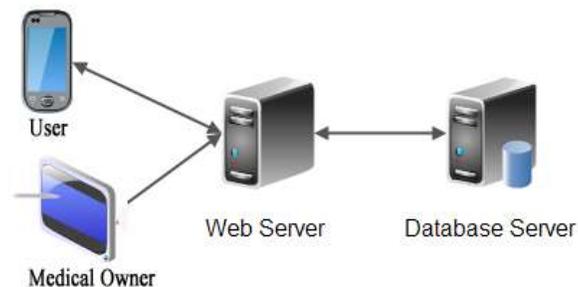


Fig: The system architecture of AOS-RTF with internet access [3]

2.2 Technical Specifications And Result Analysis:

The technologies which are used to implement the system are:

- Android version 2.2.3 (Smart Phone) and Android version 2.2 – 4.0 for Tablets is required.
- Java SE 6 Programming Language is used to develop the software.
- Eclipse Indigo is used as a Rapid Application Development Tool (RAD) or as an Integrated Development Environment (IDE) for coding the software.
- SQLite is a light weight Database which is going to be used for database access from handheld device or the tablet.[2]

2.3 Operating Environment:

The proposed system is based on Android Operating system which will search the medicines on time through android app. Android is a Linux-based operating system designed primarily for touch screen mobile devices such as smart phones and tablet computers, developed by Google in conjunction with the Open Handset Alliance. Android was built from the ground-up to enable developers to create compelling mobile applications that take full advantage of all a handset has to offer. The system is specified on android operating system only because the market share of Android is high. [9]Android also comes with an application development framework (ADF), which provides an API

for application development and includes services for building GUI applications, data access, and other component types. The framework is designed to simplify the reuse and integration of components. Android apps are built using a mandatory XML manifest file. The manifest file values are bound to the application at compile time. This file provides essential information to an Android platform for managing the life cycle of an application. Examples of the kinds of information included in a manifest file are descriptions of the app's components among other architectural and configuration properties.[3]

2.4 Advantages:

- It is Portable application.
- Efficient and fast access.
- Online application.
- Automatically update medicines

2.5 Limitations:

- It needs an internet connection.
- It needs an android platform

2.6 System Features:

- **Admin Login:**

The system will be under sole control of an admin. Admin can add or remove the medicines and can even maintain a record of the medicines available, supplied and demanded.

- **Owner Login:**

Each owner has been provided with a login id so that they can only edit data to the system and view medicine details.

- **Medicine data view:**

User can view details about the medicals like medical name, location, contact no, and website all other required information through online.

- **Medicine data maintenance:**

The system manages and arranges the data automatically into proper format as required by the owner.

- **Export product data to excel:**

The system directly exports all the input data into excel sheet format hence provides an organized data to user.

3. CONCLUSION

By adding more features in the future it is expected that this system will go long way in a satisfying users requirements. The system is able to achieve the objective and provide the ultimate result.

We have presented a web-based system for medical search. The system is originally developed for end users. Various approaches to improve the performance of system. One of the drawbacks observed is that, they lack perfect user input and the generation of weak results. The experiments with a wide range of medical scenarios demonstrate that project greatly improves user satisfaction by performing medical search effectively and efficiently.

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