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Medicheck App Using Android

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ABSTRACT

The project named "Medicheck using Android", is an android project based on medical health of a person.The project is being developed on the basis of old people who usually forget to have their medicines on time . Medicheck maintains a large database of medical shops and doctors clinic wherein all the information of medicine and doctors including contact numbers and full medicine details are stored in this application. The application will retrieves this data and will displays as per the user requirement. Medicheck is an app that tells you complete detail of the medicines and will tell you when to have them. It can help in suggesting medicines of different kind and same salts to a person. By entering the symptoms, the app will tell you the known possible diseases.
Keywords: Android Medicheck, Medicinal Prescription.

I. INTRODUCTION

Smart phones and the Internet have revolutionized the communication and with it the lifestyle of people. An increasing number of smart phones and Personal Digital Assistants (PDA) allow people to access the Internet where ever they are and whenever they want. By using internet they can obtain on one hand information on almost everything they wish to. Therefore just by using smart phones user can get health assistance anytime at free of cost. Medicheck is an application with artificial intelligence about human health and medicines. It acts as a medicine consultant similar to a real doctor . This system acts in a similar way as that of a doctor .A Person in order to know his/her the disease causing and medicines to cure it , he/she needs to give some information to the doctor such as its symptoms, and health details.

Similar way this system also provides the medicines according to the information entered by the user. The System asks all his data from the user and processes it to provide most possible disease and the medicine prescription to the user. Thus the user does not need to visit any doctor which also saves time and the user can get the required medicines in just a click. The project also has a login page where in the user is required to register his/her account then they can use the app. This project requires Internet access and thus there is a disadvantage of server failure.

The system give more accurate results as it accepts the data entered by the user and process it depending on some metrices already known to the application on the basis of which a prescription is generated and ask the user if the he/she accepts the prescribed medicines . If the user finds any allergic medicines in the prescribed list then the user will not accept these prescribed medicines and the system then may also give an alternative prescription .

II. METHODS AND MATERIAL

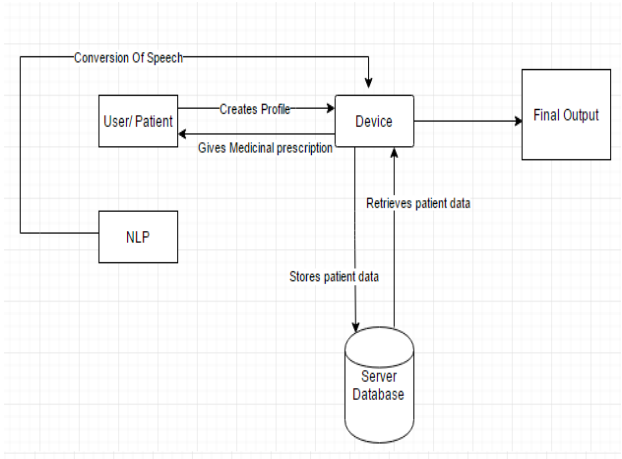
1. Literature Survey

Existing System

In the existing Medicheck Consultant system, you have to hire a doctor in order to get advice. Hiring a doctor will not only waste your time and efforts for calling them, going to them and so on but also cost you very high as their charges per visit are very high. The moment will also arrive when they will not available for you and you have to search for some other doctor urgently. In this system, a fixed time period is defined for the proper medication . After a specified period, the doctor calculates checksum for each and every file in

the system, irrespective of whether it was accessed. Then the new checksum values are compared with the old or reference checksum values so as to determine if the file in the system is modified or not. For example, in the earlier, the doctor has to collect patient details for medicine. Approving those patient details takes lot of time. Doctor and patient have to consult each other directly if any information is needed. If any new patient come for medicines, doctor and his staff has to search the user details and they have to find the schedule for that particular medicine. Here searching for eligible medicines takes lots of time. And sometimes some users' details may be missed.

III. RESULTS AND DISCUSSION



PROPOSED SYSTEM ARCHITECTURE

The proposed system is fully computerized, which removes all the drawbacks of existing system. Proposed system is an android application throughout the patients and outside as well,with proper login provided. It alarms you to take medicines. It gives you name of alternative medicines which are cheaper. The main advantage of using this standalone application is that the time required by the people to travel to the doctor will be reduced and also it reduces the cost of hiring doctor for some particular purpose. Also, this application offers more than one prescription plan also, for some particular kind of functionalities of human health. All the users have some common services like changing password, updating details, searching for details, checking the details, mailing to administrator, and reading the material uploaded by admin if the user is a student. Administrator has to do the services like adding events, achievements and he can reply to the mails sent by users. He can upload materials, search for diet details, and he has the right to approve the same. Some points on proposed system are:

- It checks your Symptoms and tells you which probable disease user might have and prescribes medicines to follow.
- It reminds to take medicines on time.
- Medicines varies from person to person by age.
- It is easy to use because of its simple interface and speech recognition.

Modules:

In this ,we design the overview and implementation of the project was discussed. The modules discussed to be implemented are listed with some details.

• Individual user profile
• Medicine based search
• Doctor profile

1) Individual user profile
- Every user registered in MUA will have an individual profile that will contain his entire information
- A user will have rights to add , update as well as remove information
- The profile will contain personal information, diet habits, interests, hobbies, etc

2) Medicine based search
- How many doctors are available in the area can be easily know.
- As the need of user can be directly known to doctor.
- The web portal access can also be provided to doctors for referral of user data directly

3) Doctor Profile
- MUA will provide doctors profiles
- Users need not struggle searching for information on the net, all necessary will be made available at the portal itself

IV. CONCLUSION

Our approach for implementing this project is we have implemented the medicheck application using android. Our system comprises of main components such as of a user login, dietitian login and an admin login. The software system allows the user to create their profiles and upload all their details including their Symptoms onto the system.The patients will get the list of related

medicines after entering the symptoms. The patients can also search for medicines of same salt of different companies with lesser price rates.

V. FUTURE SCOPE

The project is easily extensible and can be improved by further incremental releases Of the same. We plan to focus on improving the overall performance of the system. Also, interaction between patient and doctor through video calling and secure prescription will be focused upon. Some more ways to achieve medical adherence will be focused.

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