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Ayurvedacharya App

Aastha Zade[1], Gauri Chaudhari[2], Khyati Raghvani[3], Sakshi Bodke[4], Prof.G.R.Shinde.[5]
[1, 2, 3, 4]*Student,* [5]*Lecturer, Computer Technology, K. K. Wagh Polytechic, Nashik, Maharashtra, India*

Abstract: ***Ayurveda or Ayurvedic Medicine is a system of traditional medicine native to Indians and is a form of alternative medicine. Ayurveda makes the use of plants based medicine and treatments. Ayurvedic therapy is taken by controlling food habits, taking necessary foods for curing the disease and controlling daily life style. Ayurvedic Remedies are now widely accepted throughout the world. Most of the ingredients of any Ayurvedic Cures can be found at home easily. So, cures are not very costly and can be done easily. These cures have minimum possibilities of side effects except in some cases of allergies. So, it can be considered safe medicines. Our app provides you with some easy cures of most common diseases in real life. One can save money by curing himself using this app.***
Keywords: Ayurvedic, medicine, home remedies, treatment and cure.

I. INTRODUCTION

Ayurveda, the science of life or longevity is the holistic alternative science from India and it is more than 5000 years old. It is believed to be the oldest healing science in existence, forming the foundation for all others. The methods used to find this knowledge of herbs, foods; yoga, lifestyle, and surgery are fascinating and varied. These revelations were transcribed from oral tradition into written form, interspersed with aspects of mortal life and spirituality. The proposed mobile application helps people to prepare home and Ayurvedic remedies for health-related issues. It also avoids other harmful and side effects of the English medicines. Ayurveda or Ayurvedic Medicine is a system of traditional medicine native to Indians and is a form of alternative medicine. Ayurveda makes the use of plants-based medicine and treatments. An exercise module also is there. In this module users can view the video and images of yoga. Ayurvedic therapy is taken by controlling food habits, taking necessary foods for curing the disease and controlling daily lifestyle. Ayurvedic Remedies are now widely accepted throughout the world-Most of the ingredients of any Ayurvedic Cure can be found at home easily. So, cures are not very costly and can be done easily. These cures have minimum possibilities of side effects except in some cases of allergies. So, it can be considered safe medicines. Our app provides you with some easy cures of most common diseases in real life. One can save money by curing himself using this app.

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II. RELEATED WORKS

Sarawut Busssadee [1] proposed a mobile application for health monitoring-Inside Me-which can help users to become more aware of their health. This application aims to track user's workout activities and monitor and analyze user's health condition. It also gives some instructions and suggestions to the user for maintaining and improving his or her health. Moreover, it provides an assessment of the risk that the user may have one of these two diseases: coronary disease and diabetes. Input data are collected from several sources such as questionnaire, medical check-up record, and wearable device. The risk assessment is carried out by machine learning algorithms.

Sultan H. Almotiri [2] describes the mobile health (m- health) system in the context of Internet of Things (IoT). This application describes the fundamental characteristics of m- health devices such as compactness, IP connectivity, low- power consumption and security. It discusses acquisition of mobile health data via medical gadgets and wearable's and application of this data in monitoring various health conditions such as blood sugar level, ECG, blood-pressure, asthma, etc. Security is very critical for IoT based m-health system.

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It addresses the issues of confidentiality, privacy, and security in the context of secure m-health system. There are several measures listed to protect the information of patients and m- health system. The m-health system will benefit the patients in many ways such as quick diagnosis, remote monitoring and home rehabilitation. Overall m-health system will significantly reduces healthcare cost and unnecessary hospitalizations.

Arvinder Pal Singh Gagneja [3] proposes mHealth for proper implementation of Healthcare systems. Globally, mobile health (mHealth) technology could present incredible advantages to the general public, comprising of improved health care system, with less errors, reduced cost, and enhanced patient and healthcare systems commitment. To let mobile health apps and devices be safe and effective it should be regulated that it is designed, and developed properly. Then it should be implemented correctly by using the right algorithms. Once in the market it should be maintained and updated as per the changing needs. Most of all this technology should be usedproperly so that it poses no risks to patients.

M. Alloghani [4] presents a mobile health application intended to increase the awareness levels of parents and children about the obesity risks and help them to sustain balanced and healthy eating lifestyle. The proposed mobile application is an educational tool for the evaluation of interventions to prevent obesity risk levels. The application is based on the Internet-of-Things approach, which allows tracking food intake, remote capturing and constant monitoring of children data with interactive feedback displayed on the mobile application.

Mehdia Ajana El Khaddar [5] highlights some snapshots of current uses and future trends of various wireless communications in the healthcare domains, addresses their applications for e-health, states the challenges faced in a ubiquitous healthcare environment equipped with different wireless technologies, and how the resulting issues might be addressed by developing a framework that provides a flexible and convenient medical monitoring, consultation, and healthcare.

III. PROPOSED SYSTEM

The rapid growth of android applications is creating a great impact on our lives. Every android application gives specific benefits and usefulness related to that application. Ayurveda Medicine is a system of traditional medicine native to Indians and is a form of alternative medicine. Ayurveda makes the use of plants based medicine and treatments. Ayurvedic therapy is taken by controlling food habits, taking necessary foods for curing the disease and controlling daily life style. Ayurvedic Remedies are now widely accepted throughout the world. Most of the ingredients of any Ayurvedic Cure can be found at home easily. So, cures are not very costly and can be done easily. These cures have minimum possibilities of side effects except in some cases of allergies. So, it can be considered safe medicines. Our app provides you with some easy cures of most common diseases in real life. One can save money by curing himself using this app. In this module users can view the video and images of yoga.

The proposed mobile application helps people to prepare home and Ayurvedic remedies for health-related issues. It also avoids other harmful and side effects of the English medicines. Designing an Ayurvedic remedy system to serve the people in a better way is an important key behind motivating this project. This would help the patients to search for the remedies easily. Ayurveda Remedy System is software developed which is used to serve the people in a better way. Here patients search for remedies which can be prepared at home and can get well soon. The present system has the facility to view all remedies for a health related issue.

A. Feasibility Study

Feasibility study considerations are:-

The general types of feasibility study are as follows: -

1) *Economic Feasibility:* Economic analysis is the most frequently used method for evaluating the effectiveness of the system. More commonly known as cost analysis, the procedure to determine the benefits and savings that are expected from a system, the labour expenses are reduced. The cost for development of the system is very moderate. The cost of the hardware and software for management is at present economical. The benefits in turn reduce a lot of manual paper work. The development cost in future will be putting the system on its extension.
2) *Technical Feasibility:* The technical feasibility involves financial consideration to accommodate the technical enhancement, with the existing provision of computerization; the work can be completed efficiently. The project is implemented in PHP which is user friendly, efficient and error free. The PHP MYSQL which supports any operating system (OS) in which the project was implemented made time such less. The computerized material planning process is to be developed in PHP, which is free of cost as well as platform Independent.

IV. DESIGN AND DEVELOPMENT

System architecture is the conceptual model that defines the structure, behavior, and more views of a system. An architecture description is a formal description and representation of a system, organized in a way that supports reasoning about the structures and behaviors of the system.

A. Design Concept

This project is based on the database and web based techniques. To keep the records in the database it uses MySQL software which is one of the best and the easiest databases to keep information. This project uses Android as the front-end android based application which is an java based Programming and has connectivity with MySQL.

This system is developed using Android Studio. This is the Android based application. The application is designed in Android and it can be installed on any device which supports Android. The user needs to install and register to the system. The registered user needs to enter the username and password only once. The Ayurveda App is designed with the latest Android Studio IDE. The application uses SQLite database to store the details. SQLite is a lightweight database used to store the data.

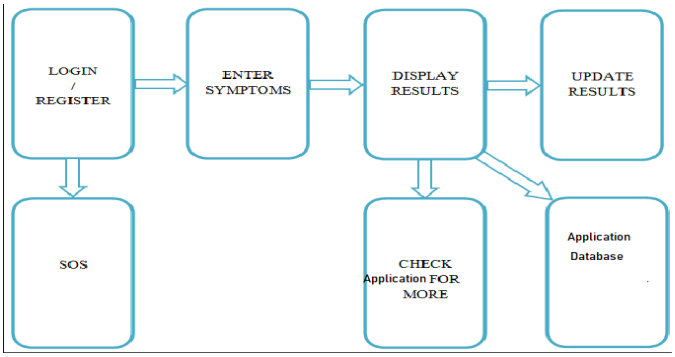


Fig No 1: System Diagram

B. Component Design

This section is focused on the conceptual design of our system which is the representation of the system composing the key concepts which can be used for knowing, understanding and simulating our system. This android based system will be interface between the users (patients, doctors) and the medical stores. The patient can enter here his symptoms and get the solution to it. If the issue is serious then he can consume to the doctor and visit to nearest store of medicine.

In this applications there are various models present such as:

1) Symptom checker
2) Diagnosis
3) Prescription Request
4) Herbal Plant
5) BMI Calculator
6) Ayurvedic Hospitals.
7) Menstrual Cycle
8) About AT App
9) Feedback

The patient as well as the doctor needs to create an account in our software system through which the system would be able to verify the account as well as all the information given by the patient or the doctor. For this process, registration name, address, sign up as (whether doctor or general), registration ID (for doctors only), email and password would be mandatory. During registration, the provided information is crosschecked to verify as this system is used for very delicate purpose and therefore, we handled the authentication system (specially for doctors) very cautiously. Doctor and patient both can access his/her account after this registration process and would be able to see the medicine list, from which the registered doctor can prescribe medicine and a PDF report would be generated and also the donor can donate medicine after providing necessary information.

C. Modules Analysis and Design

In this system The administrator is the super user of this system. Only admin has access to this admin page. The administrator has all the information about all the users, doctors, and Available medicals. This module is divided into different sub modules. Admin approves users requests because without approval user cannot log in. Admin selects user and assign respective doctor.

1) *Signup Module:* At first theAdmin/users need to register themselves After registering, registered candidates can log in by giving their username and password. Each and every user has their unique username and password.
2) *Admin:* In this module admin can manage the users details. admin post the all disease solution admin can manage all system.
3) *Post Suggestion Details:* Admin can post solutions for patient disease.
4) *Post Treatment Details:* Admin can only post treatment details. Like Ayurveda TreatmentView complete history of disease Details
5) *Get Solutions:* In this section users can check the symptom checker,exercise module,diagnosis center.user also view the suggestion related diseases.

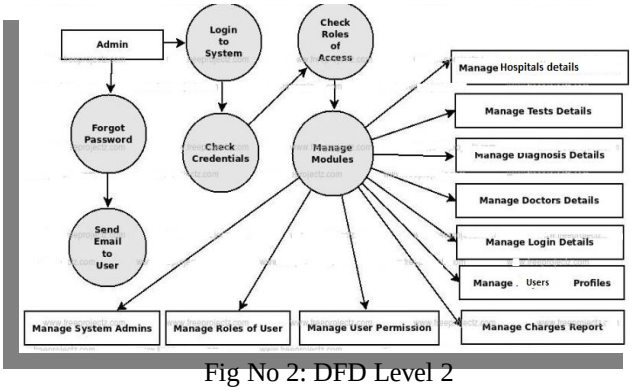


Fig No 2: DFD Level 2

V. IMPLEMENTATION

The application is designed in Android and it can be installed on any device which supports Android. The user needs to install and register to the system. The registered user needs to enter the username and password only once. The Ayurveda App is designed with latest Android Studio IDE. The application uses SQLite database to store the details. SQLite is a lightweight database used to store the data.

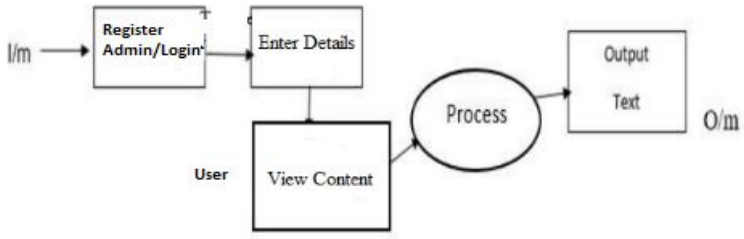


Fig No 3: Implementation Demonstration

VI. ACKNOWLEDGMENT

With a deep sense of gratitude, we would like to thank all the people who have lit our path with their kind guidance. We are very grateful to these intellectuals who did their best to help during our project work.

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VII. CONCLUSION

The application is designed for using the Ayurvedic remedies for the simple diseases like cold, cough, fever, headache etc. Due to raising medical bills in metro cities, this easy to use mobile app will help in cutting those costs to some extent. This application is used for small diseases. For major diseases it will be better to consult the doctors before going for any medicines.

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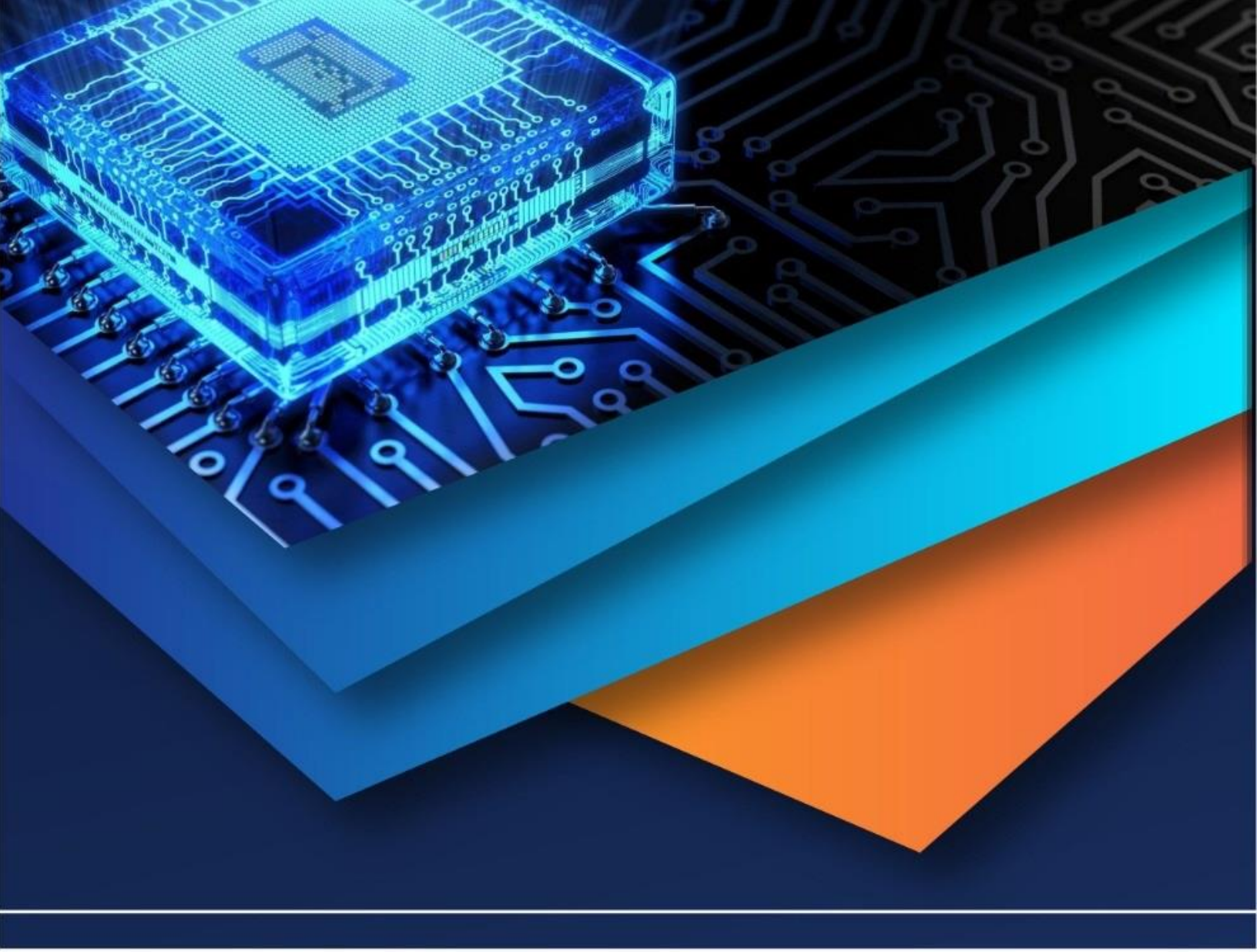
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