**Literature Survey**

**MEDICATION REMINDER AND HEALTHCARE – AN ANDROID APPLICATION**

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  This is an Android-based application in which an automatic alarm ringing system is implemented. It focuses on doctor and patient interaction. Patients need not remember their medicine dosage timings as they can set an alarm on their dosage timings. The alarm can be set for multiple medicines and timings including date, time and medicine description. A notification will be sent to them through email or message inside the system preferably chosen by the patients. They can search doctor disease wise. The patients will get the contact details of doctors as per their availability. Also the users can see different articles related to medical fields and health care tips. The system focuses on easy navigation and good user interface. Many such Medical Reminder Systems have been developed where a new hardware is required but in our work we have made an attempt to develop a system which is economical, time-saving and supports medication adherence.

**Advantages:**

It collect all the data regarding, the drug that a user is consuming and it also provides information about the medicine that he is using, it tracks and records all the medical history of the user and it helps in tracking the history of medicine, taken by the user in the past few weeks.

**Disadvantages:**

Lack of good quality scientific research into e-health impacts.

**ANDROID BASED HEALTHCARE MONITORING SYSTEM**

Author: [Maradugu Anil Kumar](https://www.semanticscholar.org/author/Maradugu-Anil-Kumar/2157852470" \t "https://mail.google.com/mail/u/0/?tab=rm&ogbl" \l "inbox/_blank), [Y. R. Sekhar](https://www.semanticscholar.org/author/Y.-R.-Sekhar/91470369" \t "https://mail.google.com/mail/u/0/?tab=rm&ogbl" \l "inbox/_blank)

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Generally in critical case patients are supposed to be monitored continuously for their SP02, Heart Rate as well as temperature. In the earlier methods, the doctors need to be present physically or in several cases SMS will be sent using GSM. In the earlier case the history of the patient cannot be displayed, only current data is displayed. In the current paper, we are using a novel idea for continuous monitoring patient's health conditions. The health care scheme is focus on the measurement and Monitoring various biological parameters of patient's body like heart rate, oxygen saturation level in blood and temperature using a web server and android application, where doctor can continuously monitor the patient's condition on his smart phone using an Android application. And also the patient history will be stored on the web server and doctor can access the information whenever needed from anywhere and need not physically present.

**Advantages:**

Assist individuals in monitoring their own health conditions, such as heart disease, diabetes, pregnancy, mental health.

**Disadvantages:**

Reliance on technology that not all patients can afford. RPM systems need reliable internet connections. Some of your patients may not have broad band access.

**MOBILE APPLICATION FOR THE MONITORING AND CONTROL OF THE DIET IN PEOPLE WITH ANEMIA**

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**Date of Conference:**29-30 October 2020

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Lack of iron is the most common nutritional deficiency and the leading cause of anaemia worldwide, according to the WHO. In this work, a mobile application is presented where the doctor, according to the patient's hemoglobin, age, sex and condition, automatically assigns in the application a light or rigorous diet to follow daily until the next control, reflecting in the application's calendar the foods to be consumed by the patient, the patient will indicate his daily consumption and the application will show in a playful way the compliance in his calendar, the application will automatically detect the calories he has been consuming; in turn, the doctor will be able to visualize his nutritional history. The study was conducted in a clinic in the city of Lima with 150 patients with anemia, showing positive results in 93.1% and with a high degree of acceptance of the usability of the application.

**Advantages:**

Monitor your Diet easily. Weight watchers or people who want to gain weight can mention the type and amount of foods consumed at each meal.

**Disadvantages:**

Increased risk of heart disease, long -lasting negative impacts on metabolism, etc. Dieting forces your body into starvation mode.

# **PERSONALIZED DIETARY ASSISTANT — AN INTELLIGENT SPACE APPLICATION**

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Types of diets that aim to improve the quality of life, health and longevity of people. However, these diets typically involve a strictly planned regime, which can be hard to get used to or even to follow through at all, due to the sudden nature of the change. In this paper, the framework for an Intelligent Space application is proposed that helps its users to achieve a healthier diet in the long term by introducing small, gradual changes into their consumption habits. The application observes the daily nutrition intake of its users, applies data mining in order to learn their personal tastes, and educates them about the effects of their current diet on their health. Then it analyzes the knowledge base to find different food or drink items that align with the perceived preferences, while also add to the balance of the daily nutrition of the users considering their physical properties, activities, and health conditions (e.g. diabetes, celiac disease, food allergies, etc). Finally, the system uses the findings to make suggestions about adding items from the consumption list, or change one item to another.

**Advantages:**

A well balanced diet provides all of the: Energy you need to keep active throughout the day. Nutrients you need for growth and repair, helping you to stay strong and healthy and help to prevent diet-related illness, such as some cancers.

**Disadvantages:**

Requires multiple assessments in order to gauge an average or usual diet. Requires administration from a trained professional and therefore can be resource-intensive.