Volume: 08 Issue: 04 | April - 2024

An Android Based Health Care Mobile Application

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Abstract -Developing an android system of primary healthcare services is the project's goal. In the era of global Internet technology advancement, the widespread utilization of mobile applications across diverse domains is burgeoning. One such commendable mobile application in the realm of healthcare, known as the 'Health Care Application,' is meticulously crafted with Android Studio and powered by SQLITE. This application is purposefully designed to effortlessly record and manage the health information of family members, making it a valuable asset for health management. The 'Health Care Application,' a superb mobile application for the healthcare industry, was painstakingly created with Android Studio and is powered by SQLITE. This program is a useful tool for health management because it is made specifically to make it easy to record and manage family members' health information. The 'Health Care Application' project was created with the specific purpose of using SQLITE and Android Studio to produce a mobile application for health management.

INTRODUCTION

In the word of internet and technology is getting impossible to monitor health details manually in most of the countries, the patient monitoring is done manually by a nurse or a care taker who has to perform continuous measurement of patient parameters such as heart rate, blood pressure, temperature, ECG, etc. [4] [5]. So there is different application build to monitor people's health. An android based Healthcare mobile application maintain all details related the users, hospitals and data of medicals medicines. Even users can buy medicines using application and check health related articles post on the

app. We are try to cover needs of users in this Android Healthcare Application.

ISSN: 2582-3930

The project proposed in this paper is a mobile healthcare application that utilizes an Android platform to make it easy and reliable for users to schedule a doctor's appointment. Three components make up this online doctor appointment application for Android. The patient application, which includes a login screen, is one module. The patient must first register in order to access the application. The patient can choose a hospital and examine the hospital details after logging in. From the list of doctors, the patient can choose a physician and view the physician's details. The patient can have access to a map displaying the hospital's location and also the current token status of the corresponding doctor at all times. Also, the patient has the option to phone the healthcare facility and the physician. The blood donor management module is the second module, where users can register as new donors and view all donor details. As its name suggests, the third module, emergency, is employed in case of an emergency. It is set up such that in an emergency, the patient can phone the hospital to request an ambulance. Every doctor at that particular clinic is registered by the administrator. Physicians are not allowed to register themselves.

2. Literature Review

As the mobile communication technology is developing rapidly, there is much work in the literature in this regard. An intelligent agent based appointment system has been proposed in [1] in which a scheduling system is provided for patients. [2] proposed an Android application that is used to remind the patients of their dosage timings through Alarm Ringing

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Volume: 08 Issue: 04 | April - 2024

SJIF Rating: 8.448

system so that they can stay fit and healthy. Searching doctors and hospitals along with navigation details are also available in the app so they can get proper treatment on time. In [3] proposed an android based appointment management system which uses application programming interfaces (APIs) from Google map and calendar. This appointment based application can be used with other appointment based systems. The mobile application accepts appointments by saving the record of the appointment on the phone calendar which is synchronized with the Google calendar. The user gets an alert based on present specified time before the appointment time and date. Another mobile application of personal health care system for patients with diabetes is presented in [6]. But the limitation of this work is that it can only push the blood glucose level to the Google sheet to receive services and cannot attain services from a particular doctor. A web-based tele healthcare system proposed in [7] which were integrated with the mobile application for diet people. In order to comprehensively deal with the overweight problem, the user interface with four important aspects on weight, diet, exercise and sleep records is implemented. In addition, online courses and knowledge of diet are provided in the system.

3. Design & Methodology

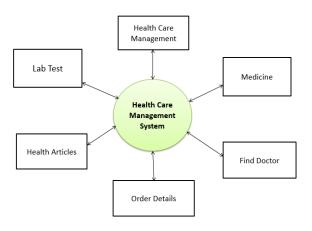


Fig. The Health care management system

We utilize Android Studio to develop applications. Android Studio provides a complete IDE, including an advanced code editor and app templates. It also contains tools for development, debugging, testing, and performance that make it faster and easier to develop apps. The quickest tools for creating apps for every Android device are offered by Android Studio. It facilitates our work and automatically creates XML files where the basic framework has already been developed when creating a project.

The Java Development Tool Kit is the project's brain, putting all of the activities on a functional level. JDK is independent for all platforms and can be used on a wide variety of operating systems, including Android, iOS, Windows, and more. This is one of the key benefits and reasons why using Java to develop Android apps is such a popular choice. This allows us to create modular programs and reusable code. Gradle script is used to achieve framework independence. For database stores, SQLite plays an improved role. The project included tasks including ordering medications, scheduling doctor appointments, and performing lab testsbeginning with the login page and then visiting the homepage to view the activities. This application has an easy-to-use UI.

ISSN: 2582-3930

4. CALCULATION

In this paper, this age of science and technology people is getting easier and convenient ways to solve their everyday problems. The health care is also getting attention of the scientist and researchers, and they are developing a helpful system to save life and care for life. This paper demonstrates a mobile application based health care tool that can be a friend like company for the masses. Using the app, they can find many conveniences that can change the way people react in emergency situations. Instead of being panic, people may find a quick and effective way to reach the solution with the help of this app. In future, we hope to work extensively on this to develop it to a new level for the betterment of people, especially the poor. We are also looking forward to use artificial intelligence in helping people detecting disease based on symptoms. This way, it is hoped that mobile based health care system will be a useful part and parcel of everyday life. Anywhere I remained; this project assists us to take care of all the family members' health information. We are working to create a smart phone system for family care. Things are now in motion digital method. That's why we're working to create this software for health care in a digital manner. And this helps to improve the healthcare with different technologies.

ACKNOWLEDGEMENT

We express our gratitude to our project guide prof Mrs. Deepa Athavle professor, department of computer engineering for her valuable suggestions, cooperation, and support in the working of this paper.

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ISSN: 2582-3930

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Published: 2023

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