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TRACKER MEDICO: APPLICATION FOR SMALL HEALTH ISSUES

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Abstract: An automated healthcare visualization system is a project which aims at developing a health-oriented web-based application that proves useful for everybody equipped with an Android Device, IOS Device, or desktop. This project has included many features which are not available in usual health-centered applications like the facility of call The Visual Body Analyzer through which the user can find home remedies for trivial health issues in 3D image format. The Healthcare system has the facility of a BMI Calculator. Data Analytics being the new future, we have successfully implemented basic level Data Analysis where Blood group and Doctors.

Overall this project of ours is being developed to help people maintain their health in a centralized manner.

Index Terms - Web Application, React Native, BMI calculator module, Find Doctor, Find Blood, 3D Body Visualize etc.

I. INTRODUCTION

In day-to-day hectic schedules, we often don't pay attention to our health. Our project can highlight a Solution to our health care issues by providing solutions to all the people equipped with a Smartphone or your desktop system. This highly portable solution is called an automated visualization healthcare system. As the name suggests users won't have to take efforts for maintaining their health. The project's only aspiration is to provide all its users easy, viable and highly accessible system which would save their pocket and minute by providing them health care solutions anywhere and anytime. Hence we provide two types of features user oriented and data-oriented. User-oriented features contain a BMI calculator and 3D body visualize. And Data-oriented features contain to find a doctor according to your location. And find blood according to any blood group and provide a facility to contact that donor through call.

II. AIM AND OBJECTIVE

The main aim of this project is to provide basic health assistance and prove to be a helping hand in their healthcare journey. Build a consumer-focused integrated primary health care system. Improve access and reduce inequity. Increase the focus on health promotion and prevention, screening, and early intervention. And Improve quality, safety, performance, and accountability, etc.

III. LITERATURE SURVEY

In [1] this paper they focus on the development of a mobile application (app) to help to provide an effective health care system. Using this app people can get numerous benefits like finding hospital information in the city, information about the cabin, cabin booking with payment, intelligent suggestion on choosing a suitable hospital, finding a doctor, emergency service calling, first aid information, alarm system for medication, Body Mass Index(BMI) calculator, etc.

In [2] this paper they present the development of a web application for the general public of Bangladesh where they can store their medical data and access it anytime, from anywhere. In the Online Health Care (OHC) system, users can register as patients to store their medical data in the database. The system also consists of registered doctors under the enlisted hospitals, who can give free medical advice and prescribe necessary medications to the patients when requested for an appointment.

In [3] this paper they present a health mobile application developed to this end, providing architecture to support the integration and automation of long-term tasks carried out through different phases of the treatment, to help physicians before, during, and after home visits. It also supports treatment adherence, offering follow-up alerts and data to set up remainder medical applications.

IV. PROPOSED SYSTEM

Our proposed system is based on basic Medical or health-related issues. For small issues, we need to consult a doctor or an expert for temporary relief. No system will recommend home remedies for mental issues. A visit to the doctor usually causes unwanted expenses. It would be better if a computerized system will recommend home remedies saving people's pocket and time. An emergency arises without prior notice, hence the need for a blood source can be vital during accidents or critical mishaps.

The existing system doesn't provide any support for finding blood sources during emergencies. As compared to the other applications our application is simpler, centralized, and convenient for everyone equipped with an all Smartphone. Our system is capable of working without an internet connection to provide basic functionalities.

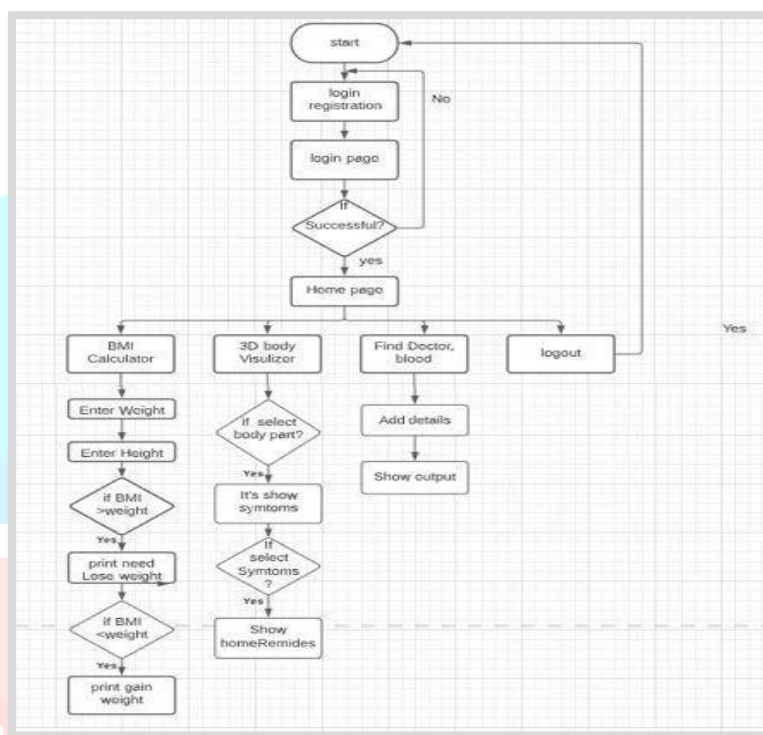


Fig 1: Flow Chart

V. IMPLEMENTATION

I. METHODOLOGY

- 1) In the BMI calculator module, calculate the body mass index which is based on user height and weight. For calculating BMI we used the following formula:

$$\text{BMI} = \text{weight}/\text{Height}^2$$

Where weight is in kilograms and height is in meters. If the BMI of any person is 25.0 or more is over weighted while the healthy range is 18.5 to 24.9.

- 2) In the 3D body visualize module, we have used a 3D gif Image for user efficiency. Where a user selects any body parts image and according to that system display all disease. From all diseases, users get the select particular disease. Where the system show symptoms, causes, and home remedies. When a doctor is not available at that time then this feature is useful to the user.
- 3) In the Find Doctor module, when a user does not know about that place and he/ she need a doctor, at that time this module is useful. In that module, users search doctors according to their location and doctor specialization. And contact the doctor through phone calls. All doctor data is stored in one JSON file.
- 4) In the Find Blood module, the User search donor according to the blood group and contact them through phone calls. After registration users also add their details as donor details like name, contact number, and blood group.

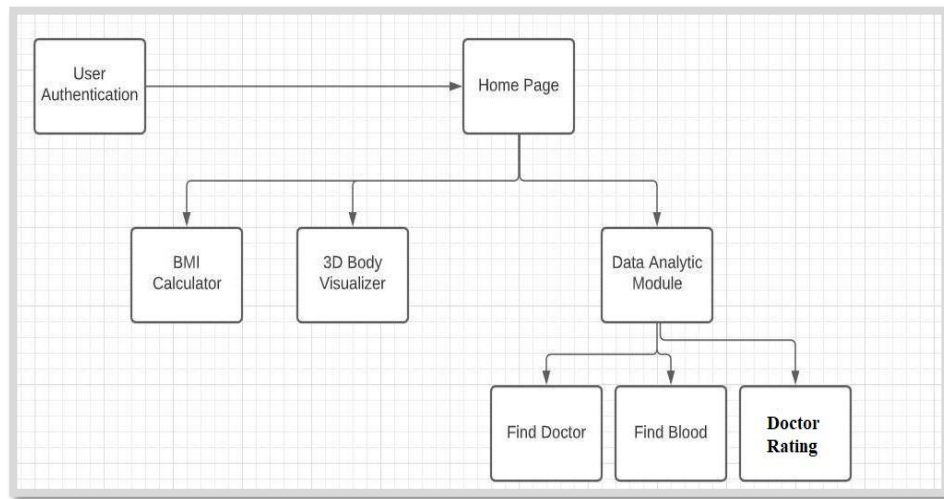


Fig 2: Block Diagram

VI. RESULT AND DISCUSSION

I. LOGIN AND SIGNUP PAGE

Here User having two options Login and Sign up to enter in application. The login form contains a field for the Email Id and another for the password. When the login form is submitted its underlying code checks that the Credentials are authentic, giving the user can access the restricted page. Here Dashboard contains Logo of our application and some option like BMI calculator with calculator icon, Body visualizes, Find blood, Find doctor with doctor icon etc.

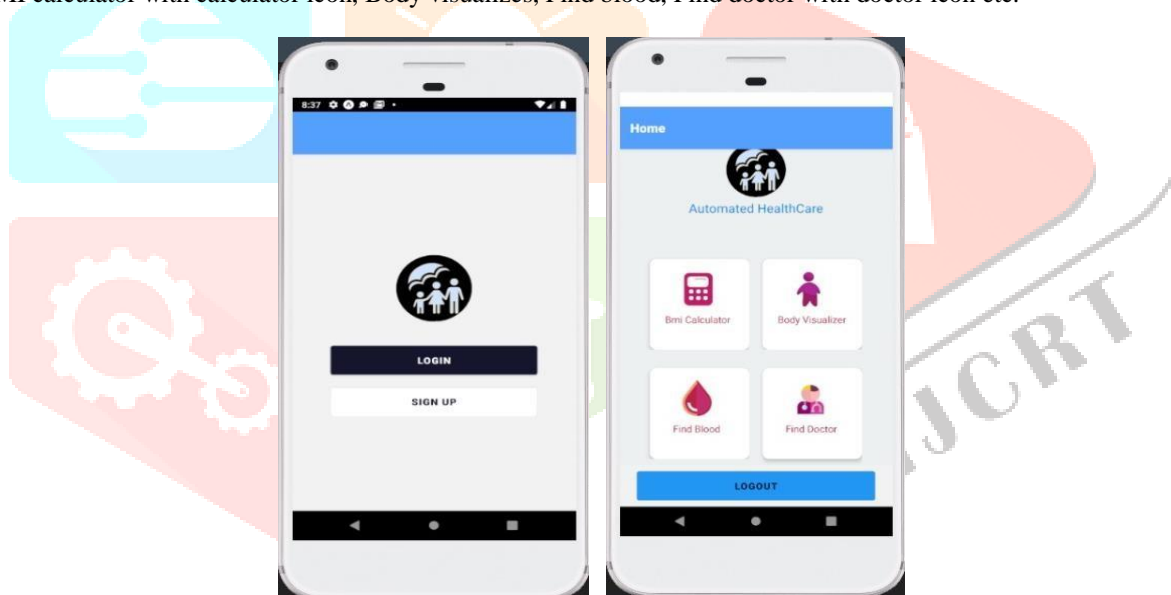


Fig -4.2.1: After Successfully Login Comes to Home Page.

II. BMI CALCULATOR MODULE

BMI Calculator where only 2 inputs can generate a Body Mass Index. Body mass index (BMI) is a measure of body fat based on height and weight that applies to adult men and women. According to user BMI it's display the message.

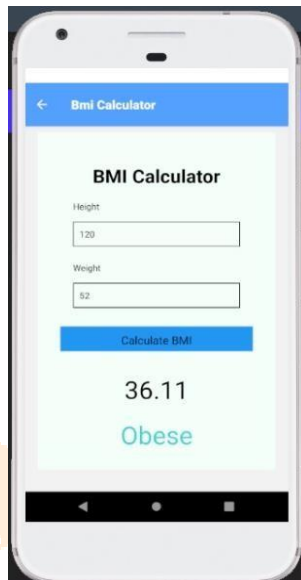


Fig -4.2.2: calculate BMI and Display the BMI and user's weight status.

III. 3D BODY VISUALIZE

In the 3D body visualization module, we display Human body image in seven parts Head, Chest, Stomach, Back, Hand, leg and Skin, etc. And according to those body parts Diseases display. After selecting any disease it's contain information related to that disease like introduction, symptoms, causes, and remedies.

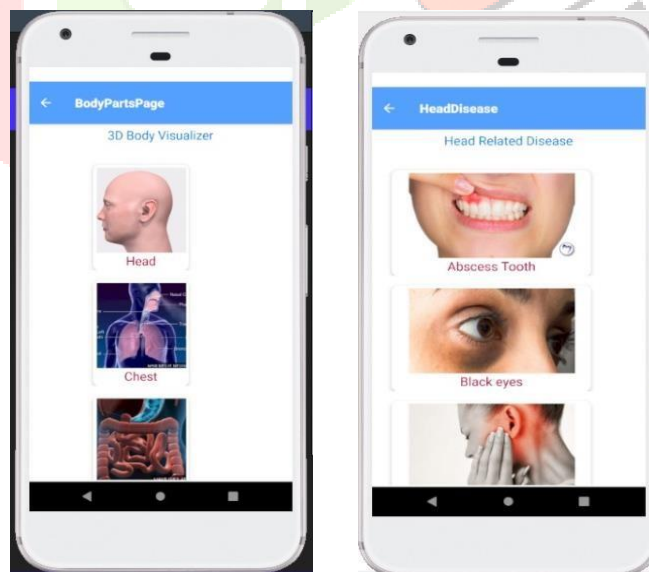


Fig -4.2.3: Display Human body image in seven parts. User can select any parts according to their issues. After selecting Body parts it's display various disease.

IV. FIND DOCTOR

This application provides an easy and fast way to search for a Doctor. Here find doctor contains the field for specialist, location. According to that, it will search doctor. After Filling details and clicking search option here it's display number of doctor according to their specialization and their rating. After selecting a doctor from the list, here it displays all details of the doctor like the Doctor's name, specialization, and location, and contact number.

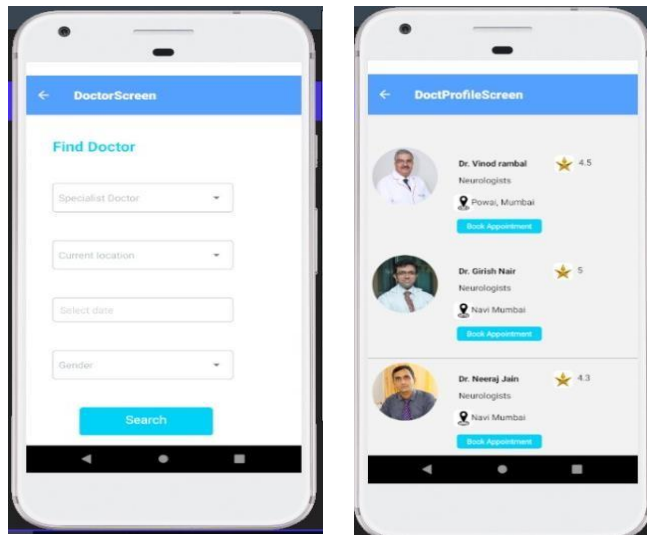


Fig -4.2.4: Search Doctor from any time any location according to user convenience. After filling details it’s display list of doctor with their name, location, rating and contact number. And also contact doctor through phone calls.

V. FIND BLOOD

Find Blood Module provides a list of Blood donor with their name and contact number. It contains two sections Find donor and Donate Your blood. Find Donor provide a list of Blood Donors. While using another section user will add their details like name, Blood group, and contact number, and add themselves to the donor list.

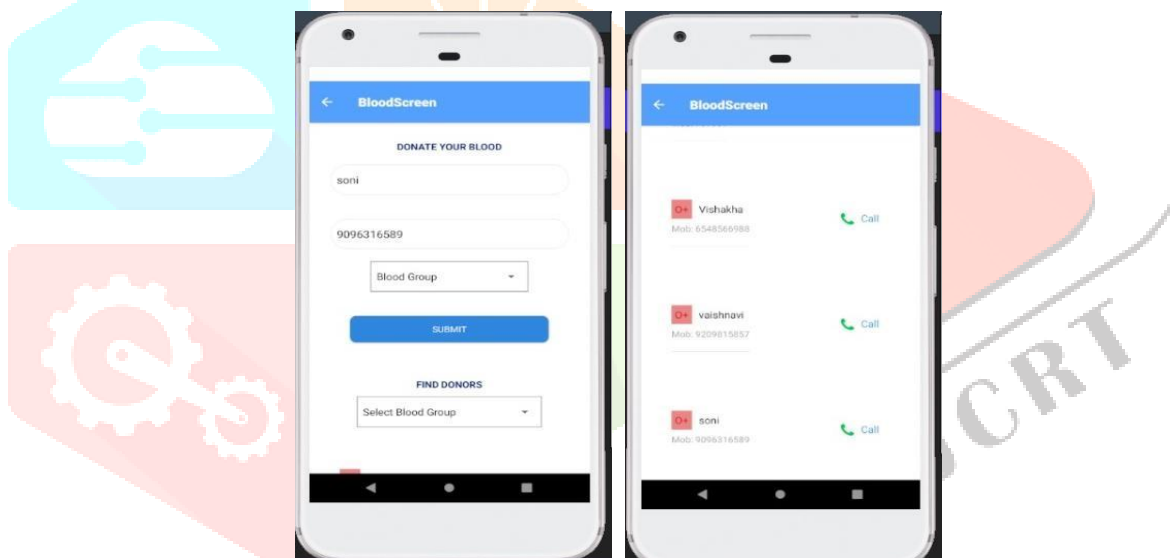


Fig -4.2.5: User search blood donor and contact those through phone calls and message.

VI. BACK-END TECHNICALITIES

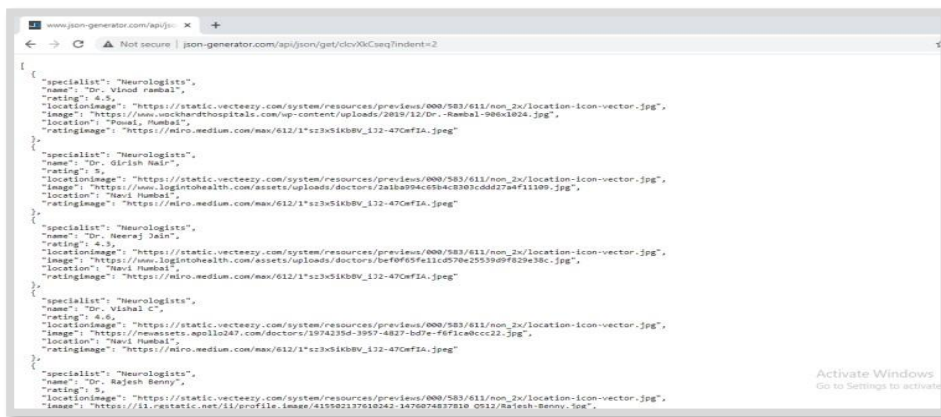


Fig -4.2.6: This file contains details of doctors.

VII. CONCLUSIONS

Medicare Application is highly available software that very efficiently and reliably carries out multiple healthcare tasks. Medicare doesn't aim at any specific grade of users, anyone equipped with an Android smart phone can take advantage of Medicare and it's very useful features. Medicare also aims at being an aid to the marketing personals working in medicine sector. Not only it aids sale of medicines but also it helps Doctors and researchers to upgrade their services. Medicare also inculcates ability to be useful during emergencies through it's features such as "Find nearest hospital" and "Blood Group finder". It is the only Android application that provides home remedies for small health issues. Thus, we can surely say that Medicare has the potential to be the best Healthcare Application around.

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