

Medi-Friend

In spite of advancement in science and technology, still in the 21st century, the thing which in we are lagging behind is awareness. Among the major concerns, of which human race is worried about, one of them is health.

It has been found in the recent survey that in most of the accident cases the patient could be saved, if the required first-aid is provided to the patient within half hour of accident. But the problem that we faced is that people are not aware of how to give the basic but necessary treatment. So, with our application we are trying to solve this problem.

Moreover, if the accident is major and patient requires some transplantation, then in the developing countries like India, it is very difficult to find the suitable donor at the right time. Using the location feature of our application, we will try to help the victim to identify the donor (may be blood or organ donor) in its vicinity.

We will also provide the various authenticated health awareness tips like exercise tips, food tips, first-aid tips etc.

Also, the common man can express his views and expertise about the medicines which are used by them and in this way, the pharmacy companies and doctors get review from end users and use this data for further enhancement.

Name of the Application : **MEDI-FRIEND**

Description : The features which our application provides are as follows:

1. Donor Information :

The donors can be further categorized as blood donors, kidney donors, eye donors etc. Our application will provide the list of donors to the user in his locality.

As an example, if somebody is dead in a family and family members want to donate the eyes, then they can upload their wish. If the required recipient is in the reachable vicinity of the donor, the both recipient and donor will be contacted immediately, otherwise, the nearest hospital in the locality of donor will be contacted for the donation procedure.

2. Health and Exercise Tips :

We will also provide the authenticated health and exercise tips. Health tips may include the details like protecting oneself from seasonal diseases and other diseases like AIDS, tuberculosis, cholera etc.

Our application will contain the pictorial presentation of various exercises that can be easily done at home.

3. Daily Health Meter: With help of change in location we can track how much a person walked using that data and user will provided by information like calories burnt or how much a person has walked.

4. Food Tips :

The output depends on the input. Similarly, our health depends upon what we eat. With this feature, the user can create his dietary chart. The tips comprises of the nutrients like calories, protein contents, fiber contents etc. present in the eatables like fruits, vegetables, cereals, pulses etc.

5. Common Diseases and Medicine Information :

This is an interactive feature of this app. Here the user can express his views on the seasonal disease and can give suggestion on the widely range of medicines available in the market (excluding the home tips). Moreover, the user can give rating to the medicines which are most commonly used.

6. First Aid Tips :

This is a static pictorial feature of this application by which the people will be made aware of the things needed to be done or not to be done in emergency like how to push the heart at the time of heart-attack or how to help a drowning man.

7. Reports :

The user can see various reports like list of donors available in his locality or the report containing the ratings of the hospitals in his vicinity and medicines etc.

Solution Design, Innovation & Architecture:

Medi-Friend as the name describes it's a friend who helps you in all your medical needs. It's a unique solution which includes end to end solution to make someone healthy. There is a famous saying "Health is Wealth" In today's life people don't have time to take care of them self this application manage all your needs. It includes location based searching with help of inbuilt GPS device in phone.

Initially user will register himself to application and fill all require information the application also track user location and upload that to server. For different functionality it will work as fellow:

1. **Donor Information** : The app update user information in a regular time interval whenever a new search for blood or anything else came based on nearest location it will give all relevant information in order of nearest person having higher rank in searching. In case of blood finding it also match results of user's phone book if any user having same mobile no in phone book and application database it will give him higher rank.
2. **Health and Exercise Tips:** Application take different objective input from user and based upon input it will generate customize tips.
3. **Daily Health Meter:** Based upon change in location we can determine walk. And this data help to generate many reports.
4. **Food Tips:** By taking input from above we can generate customize tips for health.
5. **Common Diseases and Medicine Information, First Aid Tips:** Based on user input relevant data can be search.

For searching nearest hospital information or doctors contact number whenever a user enter information it will be save on server and used by other people they can also comment on information which help to remove spam data.

Utility

This app will utilize various features provided by a phone.

- The device provides some great features to interact, share information in private and public Hubs.
- In-built GPS technology, multi-touch tiled based user interface used for easy interaction with the user to get different inputs, without making him/her to spend much time on providing them.

- There are different apps for various purposes on health, but all of them are providing distributed functionalities and it would be very difficult for the user to go for different health apps for different necessities. This one app would be an integrated health-through-phone solution.
- Also the innovative input and feedback provided by one user in any particular area could be used in another particular area of health.
- Since everybody is concerned with health, and had used some health facilities at some point of time or another, this app is likely to get huge amount of user input and provide huge amount of user benefit too.
- Besides, there can be updating on more areas of health like tips on gym, health accessories, etc.

Delight and Wow Factor:

There is a Chinese proverb saying "One picture is worth ten thousand words". We will inculcate as many images as possible in our app. For tips features, we are displaying it in the pictographical way.

A sober look of an application attracts the user. Using the proper fonts and images, our application will be highly rich in user interface.

Various inbuilt features of phone that we will use are:

1. Device Sensors
2. Device GPS to identify the location
3. Background file transfer
4. Phone Scheduler
5. Phone Camera
6. Push notifications and tiles
7. Contacts and calendars

Presentation & Polish:

The key points in our project are the various features that are explained above. For the user point of view, the various features which we highlight are :

1. The user will be notified immediately when he requires any donors in his nearby vicinity. Moreover, if he volunteers for donation, then the concerned authority in his locality will contact him.
2. Selecting the walking feature : The user will know how much he walks or jogs for how much time, how many calories he has burnt etc.
3. Several static tips in pictorial way.
4. In finding the nearest hospital and the facilities that hospital is providing, the user can also see this feature.
5. User can view and express his thoughts about the common medicines used in the market.

Some scenarios when application can be used:

- 1) You are new to a city and want to consult an eye specialist doctor you can use this application and find all hospital nearby you can choose based on rating given by different user to a particular hospital.
- 2) Your doctor tells you to walk at least 3 km a day you can use this application to find how much you walk every day.
- 3) You are becoming fatty if you want to lose your weight use this app and get personalized tips based on your habits. And application also tracks you perhaps you following tips or not.

- 4) Today is a bad day for you your best friend meet an accident and you are unable to find blood in blood bank also search on this app this app help you to find a donor near by you
- 5) Your grandfather express his wish to donate his eyes after dying just register him on application eye bank will contact you for further response.
- 6) Your uncle need a kidney transplantation but you are unable to find a donor this app take all input your location age blood group and if this application is used by enough no of user you might be able you find a donor immediately.

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