Ahmedabad Blood Donors

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Abstract- *The aim of our project is to save lives of people by providing blood to them whenever required. Our project Ahmedabad Blood Donors Application using Android studio is developed so that users can view the information of nearby hospitals, blood banks and they can also receive blood from various donors, to monitor the blood groups database and to send the required blood during the need to our application users in case of emergencies. We are focusing on building a network of people who can help each other during an emergency. We have provided security for authenticated users as new users have to register according to their requirements and perspectives and existing users have to login. This application regularly updates the information about the donors and the administrator has complete access to the information about blood donation system. The application that we are developing requires an active internet connection, it helps to select the nearby hospital and donors instantly by tracing the user's location using GPS, it provides the list of blood banks in the users area. We provide an alert system for accidents that occur off the cuff by using this feature, an ambulance will be sent to the users location and also a message will be sent to the users family and friends, which will let them know that the user has met with an accident without any wastage of time. Thus this application provides the required information quicker and also helps in giving the right treatment at the right time.*

I. INTRODUCTION

It is estimated that our country has a blood deficit of between 30% and 35% every year. In a land of 1.2 billion people it's ridiculous to say we can't meet the requirement. "The problem is not insufficient number of donors, but finding a willing donor at the right time. We want to build a network of people who can help each other during an emergency.". If someone needs blood, first of all he searches it within his family members, then nearest hospitals and blood banks. If they cannot manage blood in these ways, it is really hard for them to contact other people to collect blood in a short time. That is the problem we want to solve through our application. Instead of just providing people who need blood with an outdated list of regular donors who may or may not be available to help, Our application contacts the right people at the moment a user finds out about the need. Our Blood Donation Management System stores electronic information about the donors and

organizations related to donating the blood. What we aim for through this application, is that any person interested in donating blood can register himself as donor. Moreover if any general consumer wants to make request to have blood online, he can also take the help of this system. The main objective of this app is to improve the communication between donors and users and create for them a platform where they can interact with respective hospitals and each other easily, while overcoming the deficiencies of existing system.

II. PROCESS

The application is an android application and will show where nearest blood donors are located in the city and will notify them as soon as a request for a particular blood type is made. The application will have options to find nearest hospitals and blood banks for easy access.
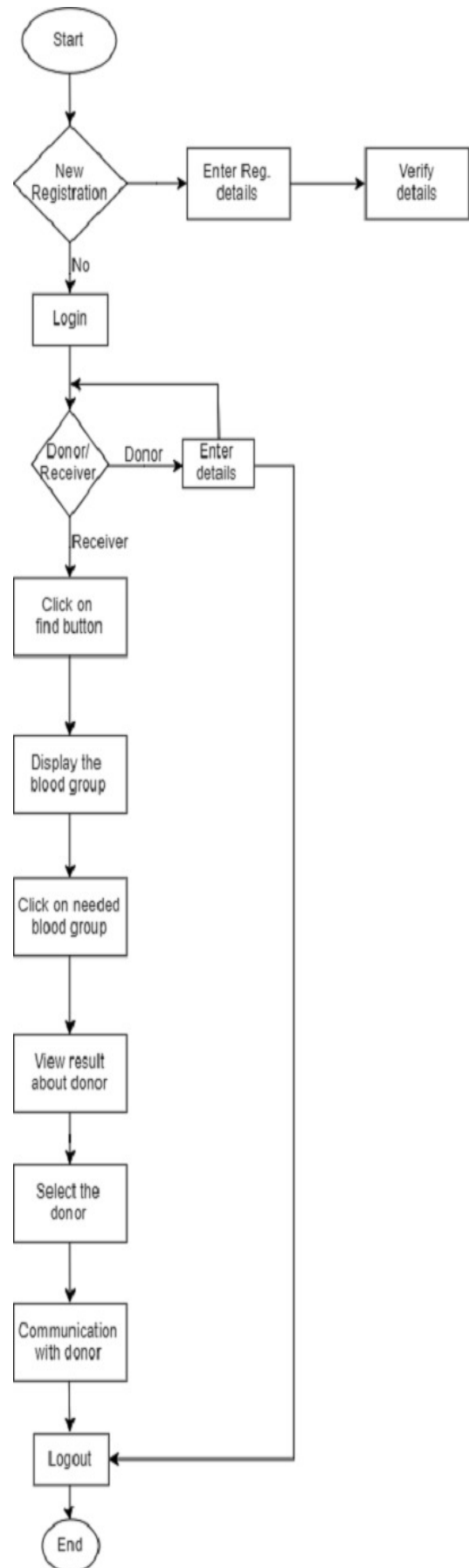
The application we present here provides necessary options to serve people on their emergency need making them free from worrying for blood by providing lot of donors at a single click.

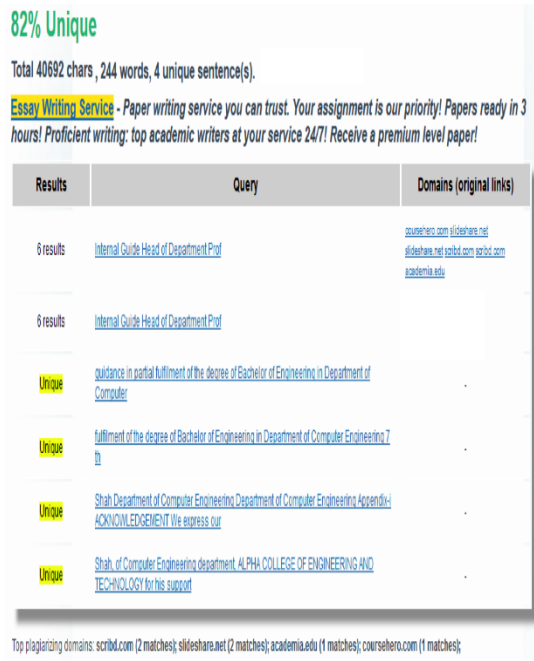The options that are provided by this application are:

- Register Blood Donor – where users can register themselves or their known ones to be listed in blood donor and comes to help when in need.
- Search Blood Donor – where users can search blood donors divided by blood groups and get their contact details like address, contact no etc.
- Blood Banks and Hospital wiki – where user can get information like blood banks and hospitals in Ahmedabad.
- Emergency Blood Request – where user can send emergency blood requirement request and every app user will get notification of it.

III. METHODOLOGY

- If the person is using this app for the first time then he/she needs to register themselves first. For Registration they need to enter their email id and password.
- After entering it they can login in application as a donor or a receiver.
- If the person is a Receiver then he/she needs to search for the blood group donors by selecting the required blood group.
- After that the receiver will get the result of donor in a list.
- She/he can view the details of the receiver, and their contact details and can contact the desired blood donor and ask if they are willing to donate.
- Now the receiver can logout of the application.

IV, RESULT

V. CONCLUSION

Ahmedabad Blood Donors is a mobile application which satisfies the need of the patients in emergency situations. This android based mobile app provides an easy and simple way of finding the details of the donors and receivers.

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