

DAYANANDA SAGAR COLLEGE OF ENGINEERING

COMPUTER SCIENCE & ENGINEERING

Minor Project- Report Aug-2019-2020

Course Faculty: Dr Mohammed Tajuddin
Semester: 4

Course Name & code: DBMS (18CS4DCDBM)
Date: 7-2-2020

TITLE OF THE PROJECT	BLOOD DONATION MANAGEMENT			
STUDENT NAME	GAUTAM KUMAR	RITHVIK K BHAT	VIGNESH K	
USN	1DS18CS710	1DS18CS732	1DS18CS744	
INDIVIDUAL CONTRIBUTION	APP DEVELOPER FIREBASE DEVELOPER	APP TESTER APP DEVELOPER	APP TESTER FIREBASE DEVELOPER	
GUIDE	PROF BHAVANA BR			
PROJECT ABSTRACT :	<p>The existing blood banking system includes a lot of manual work which takes a lot of time and physical effort. It takes a lot of time and effort to collect information about blood donors or receivers. Proper information is not available to the users.</p> <p>The “Blood Point” App is a mobile-based project developed in android platform. Designed using android studio, This android project provides an easy and fast way to search for blood. This app enables users to find blood in emergency situations. Here Users can easily find the details of donors and receivers through their mobiles. Users need to register with the application to view all the information which is available on the app. The user can search the details and find the details of the blood donors. Users can get brief details about the donor’s contact details including their location. This system enables users to communicate with donors directly which avoids miscommunication.</p>			
PLATFORM USED (H/W & S/W TOOLS TO BE USED)	ANDROID STUDIO AND GOOGLE FIREBASE			

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INTRODUCTION

“Blood Point” is an android application used to help the patient search and contact the donors easily. The purpose of this application is to help the rural people residing in the remotest of areas to get good access to medical facilities .

Since 90% of the Indians already own a smartphone this application might be a huge success in the future days to come.

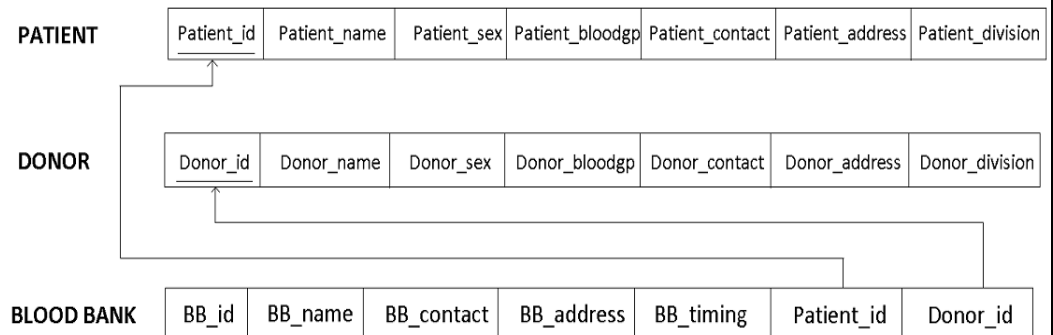
This application includes:

User Database
User Login & Signup
Donor Details
Finding blood group easily
NearByHospitals
Achievment & Rewards

Tools used:
Firebase Realtime Database
Firebase Authentication
Google Maps Api and
Android Studio IDE

DESIGN

SCHEMA DIAGRAM



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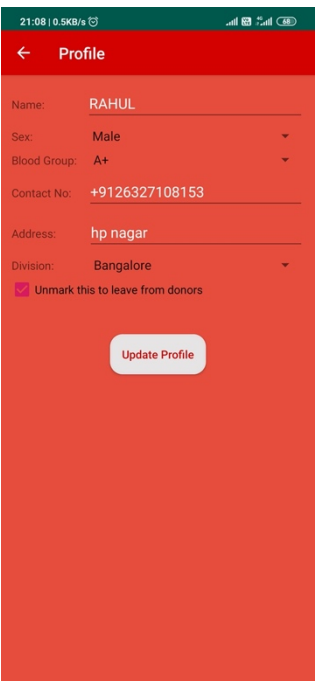
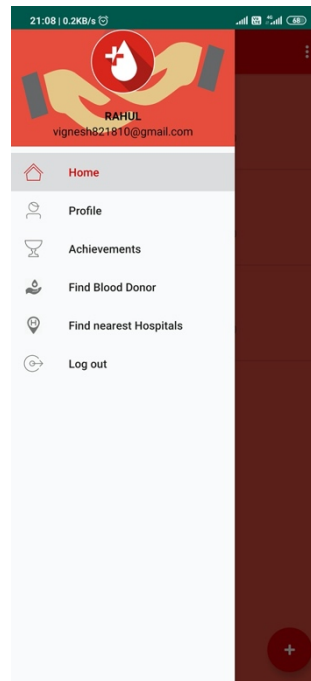
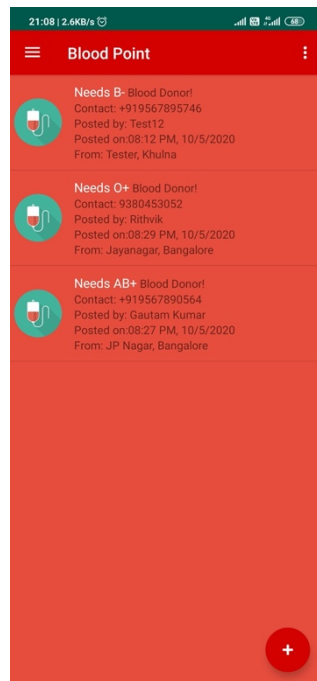
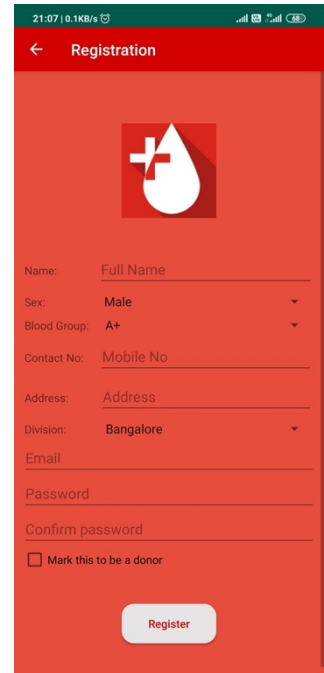
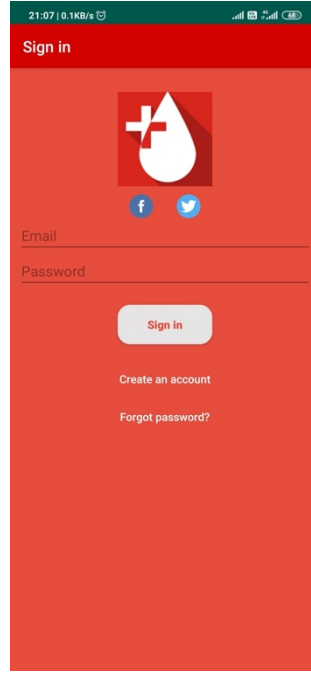
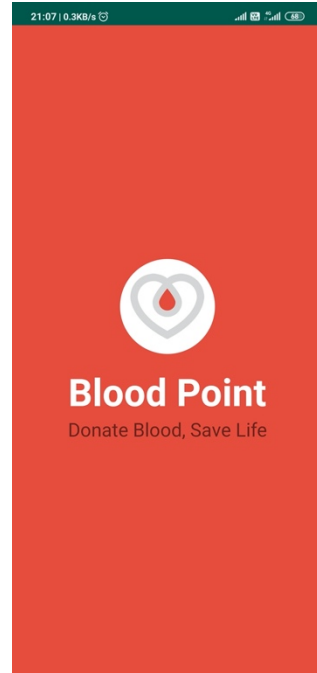
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	<p>ER DIAGRAM</p> <pre> erDiagram PATIENT --o{ BLOOD_BANK : Has BLOOD_BANK --o{ DONOR : Has PATIENT { string Patient_id PK string Patient_name string Patient_sex string Patient_add string Patient_contact string Patient_division string Patient_bloodgp } BLOOD_BANK { string BB_id PK string BB_name string BB_contact string BB_add string BB_timing } DONOR { string Donor_id PK string Donor_name string Donor_add string Donor_contact string Donor_division string Donor_sex string Donor_bloodgp } </pre>
<p>PROJECT SOURCE CODE LINK (GITHUB/ GOOGLE DRIVE)</p>	<p>https://drive.google.com/open?id=19sMvsD5ZzvzRQJLH4e1QQvm6DaCZHvCT</p>
<p>CONCLUSION /FUTURE ENHANCEMENT</p>	<p>CONCLUSION: Technology is introducing new innovations day by day, thus reducing the time required to perform various things. The "Blood Point" Application can be used to reduce the time required to deliver blood to the needy in cases of emergency. It can also be used by the people interested in donating their blood by locating their nearest blood bank. The application provides a way of communication and synchronization between the patients and donors . The proposed system uses Google Maps which provides the user with an efficient way of locating the nearby donors / blood banks.</p> <p>FUTURE IMROVEMENTS: Due to the drastic boom in our population and the increase in number of diseases and health issues , with Corona Virus being the latest pandemic , there is an increasing need of blood. The growing population of the world also results in a lot of potential blood donors who can help save our society by donating their blood regularly . The "Blood Point" application can be used inorder to enable the communication between the blood donors and the recipients,in a very efficient and systematic way.This prevents improper management of blood that leads to wastage of the available blood inventory. Therefore, automating the existing manual blood bank management system can yield a high-end, efficient, highly available and scalable system and reduce the efforts required to search for blood donors.</p>

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UI SCREENSHOTS



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21:08 | 0.6KB/s

Find Blood Donor

Choose Blood Group: A+ ▼

Choose your Division: Bangalore ▼

SEARCH

+

21:08 | 0.0KB/s

Achievements

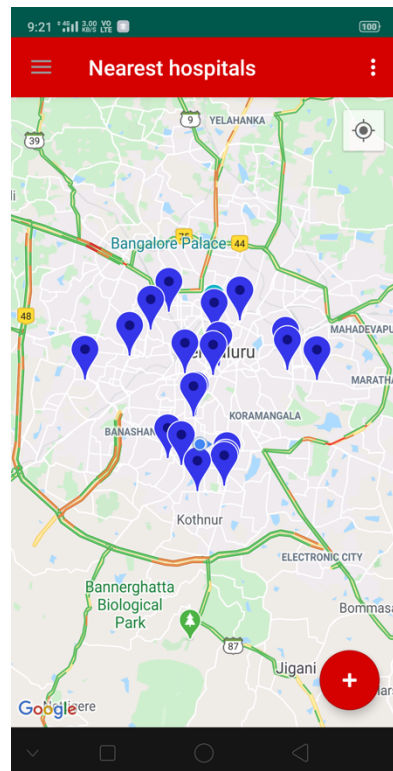
Have you donated today?

YES NO

Total Donated: 0 times

Last donated: Do not donate yet!

+



21:09 | 0.6KB/s

Post Blood Request

Contact: Mobile No

Location: Enter location of place

Blood Group: A+ ▼

Choose Division: Bangalore ▼

POST