"REDO BLOOD APP"

: A CASE STUDY OF SHREE SANTKRUPA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GHOGAON

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ABSTRACT

"REDO Blood Connect" is an Android based app. In the event of an emergency, this application can help users find needed blood. Here Users may seek information about contributors and beneficiaries with ease using their mobile phones. Users must first register with the app in order to view all of the information about the blood group it has to offer. The user may look for information about blood donors by searching for it according to the respective districts or nearby areas. The user may make a call or send a message straight from this software to the mobile phones of the donors. With the rapid expansion of COVID- 19 throughout the world the number of requests for the blood and the blood platelets has continued to rise, and also the rise in the number of postings soliciting blood donors on social sites like WhatsApp, Facebook, Twitter and Instagram. Our application has a very special features which differentiate between the donors who are available to give the blood and the donors who have other reasons not to give the blood like suffering from covid-19, given blood recently, out of station, diagnosed with some disease and health issues. In our App the donor can choose enable or disable to give the blood according to his willingness or due to the mentioned reasons. As a result, the person who needs the blood can connect to the right and readily available donors without wasting the time. This app is best to find right people who are willing to give blood at the right time.

1. INTRODUCTION

This application plays a crucial role in saving lives of the people, which is also our primary goal. According to the survey of newindianexpresses. Every day, 12,000 Indians die due to a scarcity of donated blood. India takes 11 million units of blood but requires 15 million, resulting in a 4 million unit shortfall. Blood is a vital lifesaver, yet in India, up to 87 districts lack blood banks. At least one blood bank is required in each district across the country. DNA accessed a list of 19 states with 87 districts that do not have a blood bank. So we want to motivate 1 million people to donate at least once or twice a year—not via marketing, but through word-of-mouth—to close this gap and reach the most remote corners of India.

When the receiver raises a 'blood request,' The app exchanges both parties' information if a willing donor accepts the request (phone numbers, home and hospital addresses). Despite the fact that India has made the buying and selling of blood illegal since 2017, the transparency in donor recipient profiles has helped to keep India's large and well-hidden blood black market network at bay. Individuals that sell their blood, raise fictitious requests, or sell the donor's blood should be blacklisted and blocked. Because Facebook's,

Twitter's, WhatsApp's, and Instagram's blood donation features do not undertake any donor verification, theseshady personas frequently raise and acceptblood requests.

They can't call the donor. there is no fast process, but in this application receiver can directly can to donor or directly share to social media if they want. Our main aim is no one has die due lack of blood.
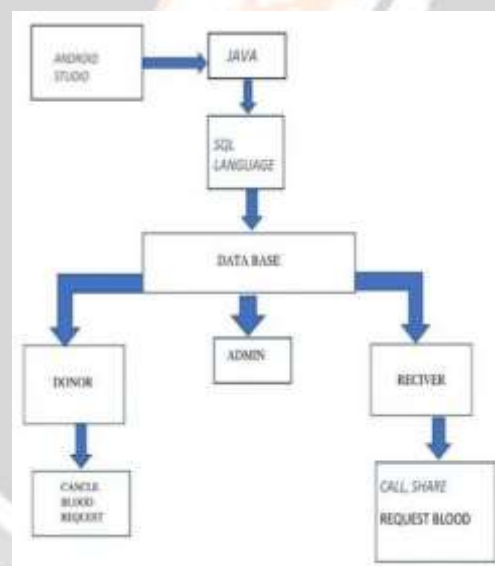
Redo Blood is a project that allows people to examine information on registered blood donors, such as their name, address, and other personal information, as well as theirblood group and other medical information. The initiative also features a login website where users must first register before being able to examine theavailability of blood and, if desired, register to give blood.

Our application has a very special features which differentiate between the donors who are available to give the blood and the donors who have other reasons not to give the blood like suffering from covid-19, given blood recently, out of station, diagnosed with some disease and health

issues. As a result, this application aids in the online selection of the appropriate donor based on medical information and blood group. The major goal of creating this software is to drastically reduce the amount of time spent looking for the proper donor and the amount of blood that is needed. As a result, our application givesthe necessary information in a timely manner and aids in faster decision-making.

2.METHODS

BLOCK DIAGRAM :

3. Step by Step Process :

Step 1: If a donor wishes to be a donor, heor she must first register.

Step 2: Donor registration needs the following information: address, phonenumber, and blood group.

After registering, the donor can manage hisor her account at his or her leisure.

Step 4: The app administrator can providean ID to any authorised institution.

Step 5: Using their login ID, the receivercan look for a donor.

Step 6: They can contact, alert, and communicate with the donor according tothe donor's preferences.

4. Firebase Services :

Authentication :

This service intends to make registration and logging in easier for users. Google, Twitter, Facebook, GitHub, and cell phone numbers are all supported by Firebase Authentication. Authentication with a mobile number is used in the system that will be constructed.

Results and Discussion :

Authentication Module:

Sign Up :

New user or donor can create an account to use in the blood donor application and create a password for account verification and create an identity.

Sign In :

Donor Sign to the account for viewing orediting details and any other personal information.

Forgot Password :

If donor forgot their password they havean option to reset their password.

Account Verification :

If donor changes their password or if

they forget the password then we haveto verify their account using mail verification.

5. CONCLUSION:

1) The main objective of blood bank is to develop an emergency application forpeople who needs blood by using alerting system.

6. REFERENCES:

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