Team - DevOops

Project - missionB

#### **Motivation** -

Every two second, someone in the world is in need of blood. In India, there is a need of 5 crore blood units every year out of which only 2.5 crore unit requirements are met. A single car accident victim may require as many as 100 blood units. This application might be very useful in such situations meeting the requirements of blood by the people who might be willing to donate blood.

#### **Problem Statement -**

Blood being the most important element for humans to survive, developing an application to interconnect blood requesters and donors might help save lives during emergency. Making such an application which is user friendly as well as has more features for serving the people better, we are proposing a model in which we are going to connect the blood donor and requester together in a unique way.

## **Objectives-**

Blood donation app to interconnect blood donor and blood requester in a unique way. Blood requester can post their request by filling a form and donors will be notified within the range if any requests are present. All the blood requests are plotted in the maps with a marker displaying the details of the requester. Notifications for donors and blood banks are made for blood requests nearby. The application is linked with Social Network (Twitter) in order to collect blood request made directly from twitter.

# Existing System –

them.

People who are in need of blood at emergency situations try to contact their relatives and friends or share the details on WhatsApp which doesn't really help them much if there are no donors which match the criteria and also they can contact only people they know and not strangers who might be willing to help

#### Proposed System –

Requests updated in the application will be plotted in the Maps

API and any person using the application can easily see the nearest

blood request and choose to help. Requester can also notify people

within the city if they are willing to donate blood. Requests can be

made through twitter using a specific hashtag which will be

displayed in the application using Twitter API.

## Methodology –

The application is developed on Android Studio with the help of

Google Maps API. Firebase is used as the back-end to collect all

the users data which is stored securely.

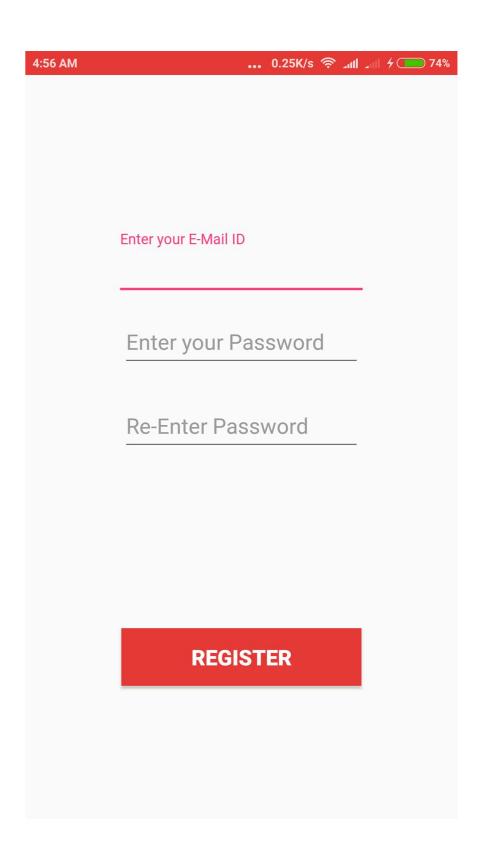
#### **I**MPLEMENTATION

We started with creating a new project in Android Studio. Integrated the Firebase in our Android Studio and started working on designing screens and implementation. After that we integrated the Google Maps API and then started working on connecting and storing all the necessary details in firebase. We linked the application with Twitter API to connect it with a larger group of people.

#### Modules:-

#### PRODUCT DESCRIPTION

1) Registration panel - A unique registration panel has been created for each and every user who signs in the app. Their unique uid gets generated and stored in firebase (Backend).

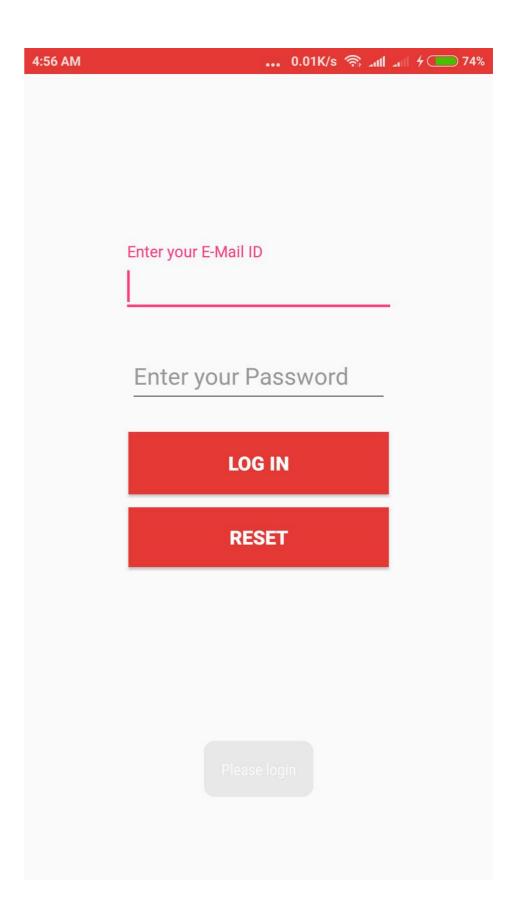


# 2) Login Panel - Once

registered, user can login

inside the application

through a login panel.



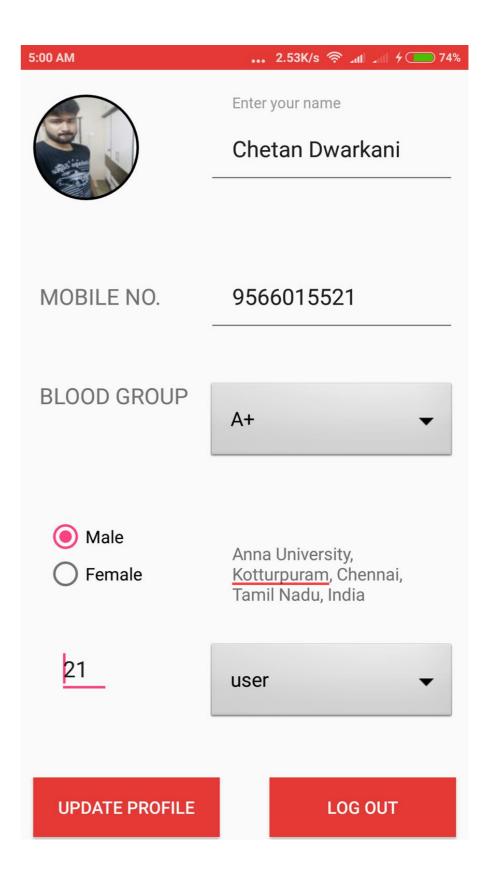
# 3) Profile panel -

Every user holds a

unique profile having

all the necessary

required information.



4) Maps panel - Google maps has been integrated in our app which shows complete details about user and blood banks

who needs blood nearby to

your location with directions.

7:49 ... (2) (5) 🥱 and Volte and 4 (5) 100% **MISSIONB** • ritika TTIYUR Blood group:B+ Quantity:5 required soon Contact:9884519516 716 Chennai (112) 114 TNAGAR (113) Ramapuram ADYAR VELACHERY SHOLINGANALLUR Google HOME

## 5) Blood request -

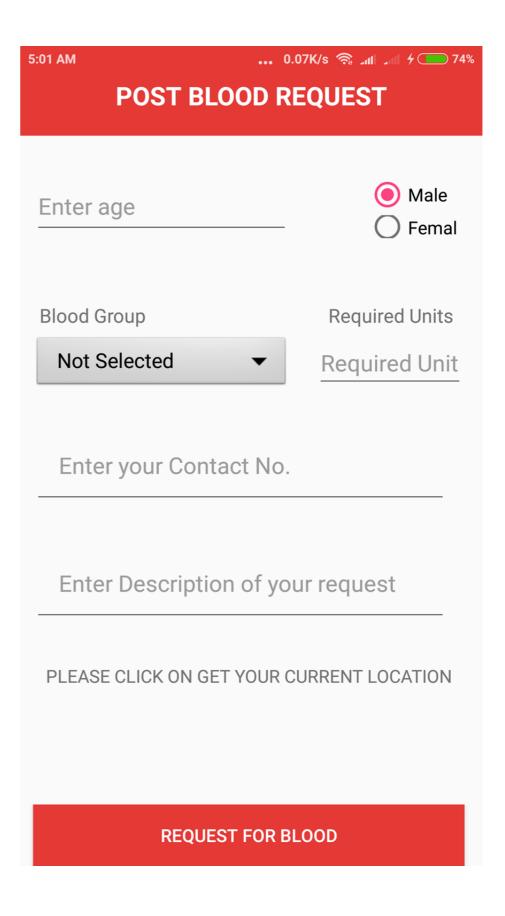
Blood needy ones can

post the blood request.

All the data posted by

blood requester gets

stored in Firebase.



## 6) Blood view panel - Blood

donors can see the blood request

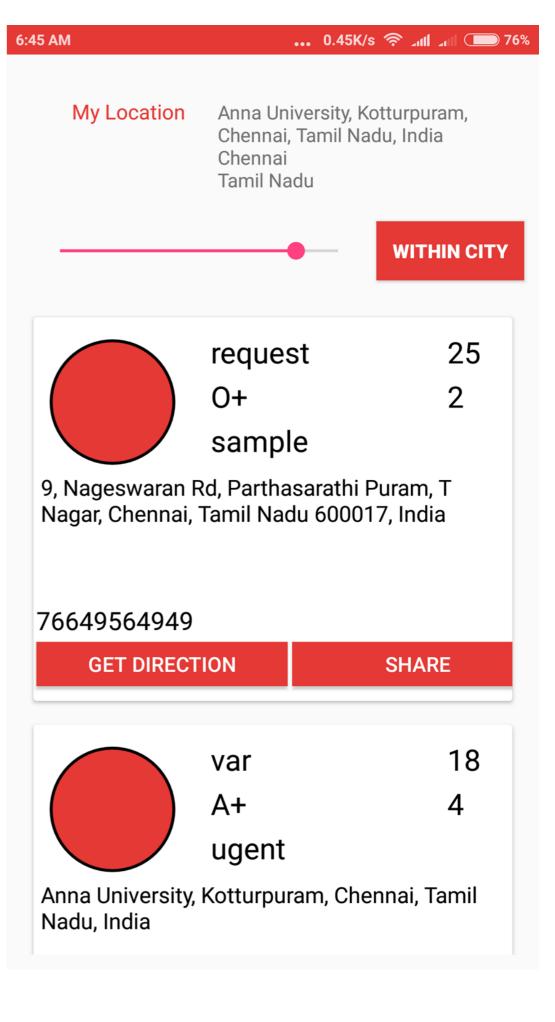
by needy ones. We have

integrated Google Maps API so

that the blood requesters ones can

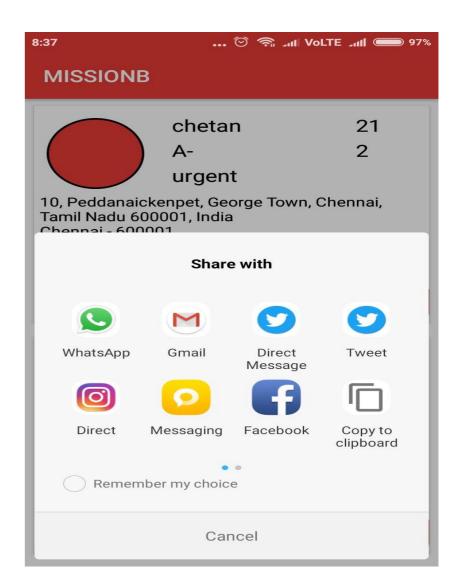
easily locate the blood donors near

their very own location.



# 7) SHARE DATA –

We have made it easy for people to share such information with others using WhatsApp and other applications.

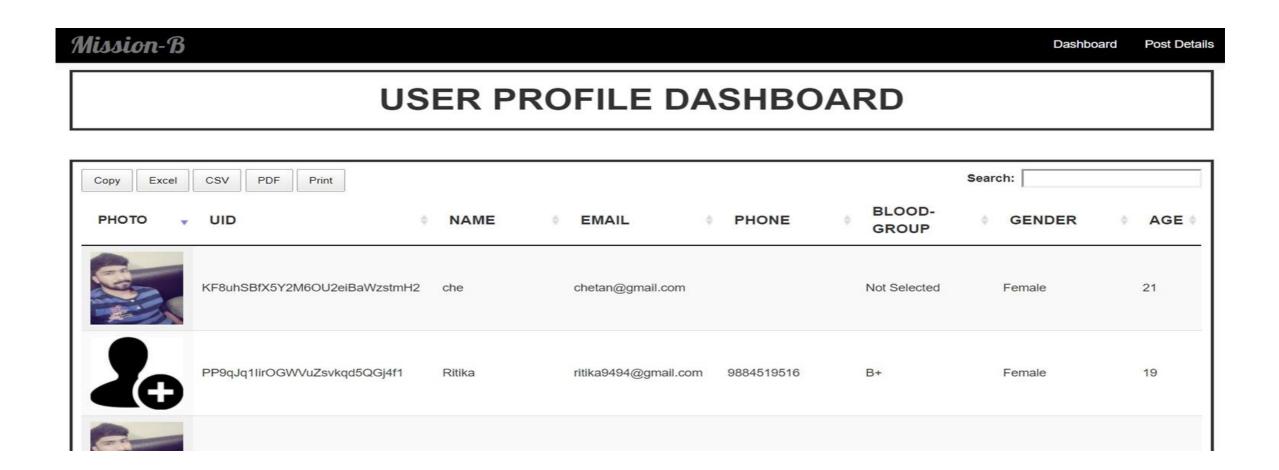




## 8) WEBSITE DASHBOARD-

All the user and blood request currently preset in

database can be viewed.



# 9) NOTIFICATION PANEL -

All the requests accepted

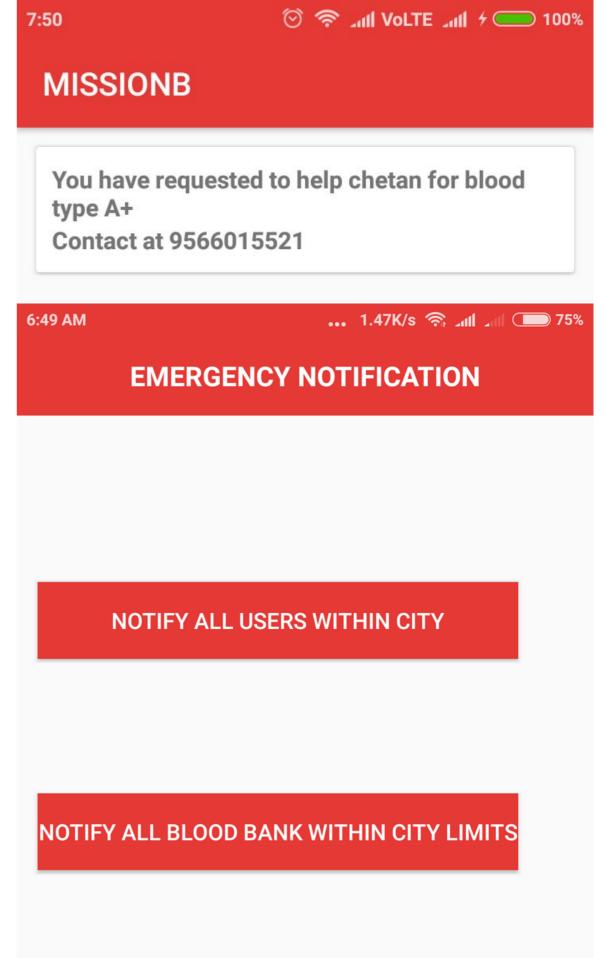
are visible in this section.

Requester have an option to

notify users or blood banks

within city limits if the blood

is required urgently.



# #missionbsprite

# 10) SOCIAL MEDIA

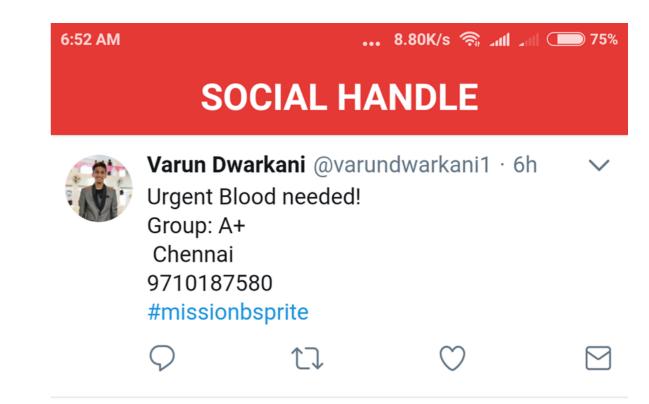
**CONNECT** - We have

connected our application

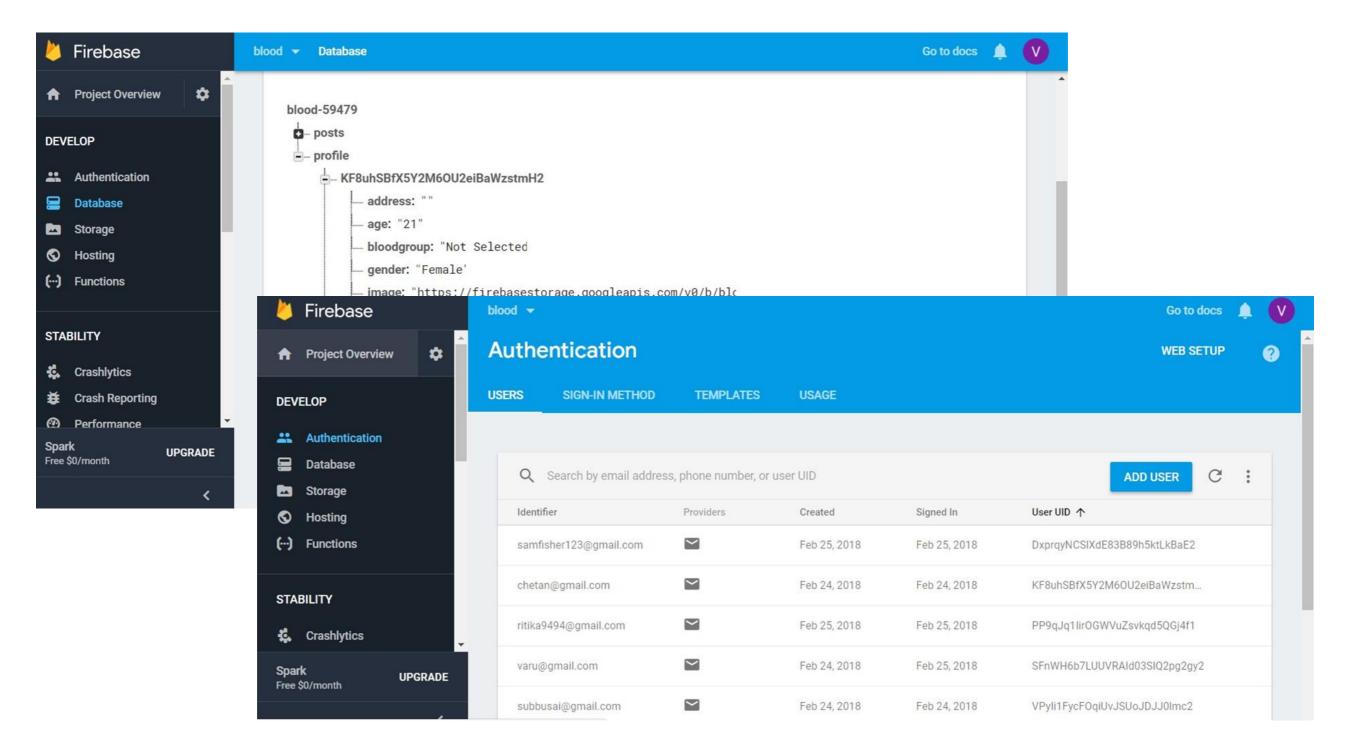
with Twitter so that the

recent blood related tweets

can be easily seen.



# DATABASE



#### POTENTIAL USERS

The scalability of the apps is not limited to any restrictions. It has its expansion and usage all over the public users of the app.

#### IMPACT OF THE PRODUCT

Blood is one of the requirements which is always immediate.

We can never predict when a person might end up in an accident and require blood. Our application will definitely help interconnecting all the blood requesters with people who are willing to donate blood in the world.

#### Social impact:

Connecting all the blood needy ones with blood donors can help to create a big change over saving lives.