

# Department of Computer Science and Engineering University of Chittagong

**Course:** CSE618 – Mobile App Development

## A Report on **Health Forum**

## Submitted by:

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Session: 2016-17	Session: 2016-17

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#### **Project Report on Android App**

#### **Forum**

#### 1. Introduction

The objective of this report is to develop a communicative platform that deals with health related information and queries for patients. There are many online social platforms but they are not sophisticated enough as they include many unwanted ads or videos. In our project, we develop an application that will eliminate outside distractions and will make the social platform based health-related communication more efficient. Our application is primarily based on Android as it is a leading platform nowadays. This report states detailed planning of our project like functions, features, architecture and various diagrams. It also includes future works and work flow of the project. The estimated budget for this project is about BDT. 200 thousands and the time frame is around 2 months. The primary version will be released in around 1 month.

This report consists of twelve sections. Second section describes the problem of the project. Section three states the solution, section four analyses the architecture of the Application. Features and facilities will be discussed in section five and section six to nine provide different UML Diagrams of the project. In section ten, we will visualize some snapshots of our app. Finally, Limitations and the future works are written in section eleven and twelve respectively.

#### 2. Problem Statement

Our given problem was to develop an application that can play a role of a medium between the patients and doctors to discuss certain health issues.

#### 3. Problem Solution

As a solution to the problem, we chose to develop a Medical health forum that can be used as a social platform among users who can be patients or the doctors. In the forum, one patient can post his/her health disorder and viewers who are supposed to be either doctors or patients are likely to interact with that post creator via direct chatting or commenting. Also, a blood Donation section is to be injected in the app so that one can find a matching blood donor in his/her emergency situations. To maintain these tasks, one user should have an account of his/her own. So, a user profile is to be created before having all the features of the application.

#### 4. Architecture

We have used a 3-tier Architecture for our application. We have implemented the UI in XML, coded the program/application logic in Java and finally to have support in the back end, we have used Firestore Realtime database.

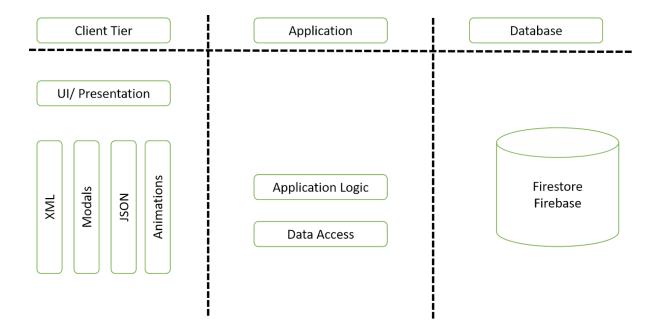


Figure: 3-tier Architecture

#### 5. Features

The followings are the features of our android app:

- Sign In or Sign up before joining the Forum
- Redeem password facility
- Add Post to the forum
- See Posts from different user
- User Profile with updating facility
- Users' Personal Chatting option
- Like, Comment and Share features for posts
- Blood group info storing
- Blood Donor Finding
- Google Maps to track Donors
- Corona status checking In countries of the world
- Sending Notification via firebase cloud message.

## 6. Activity Diagram

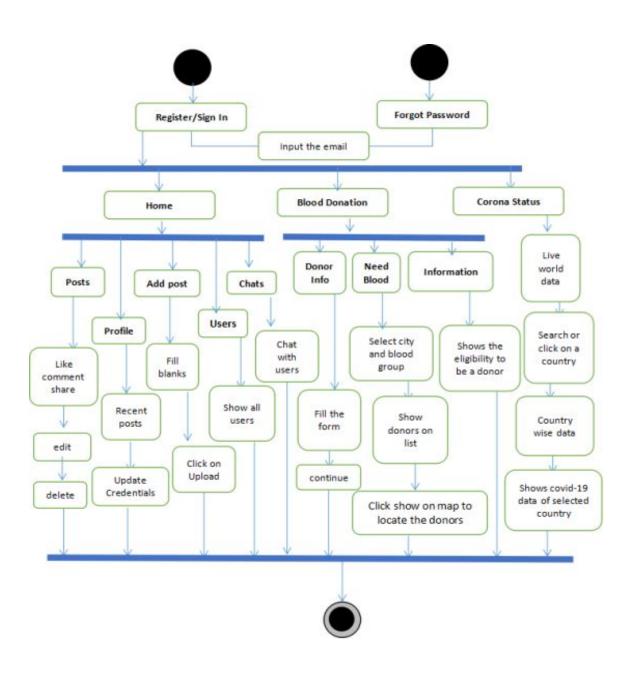


Figure: Activity Diagram

## 7. Class Diagram

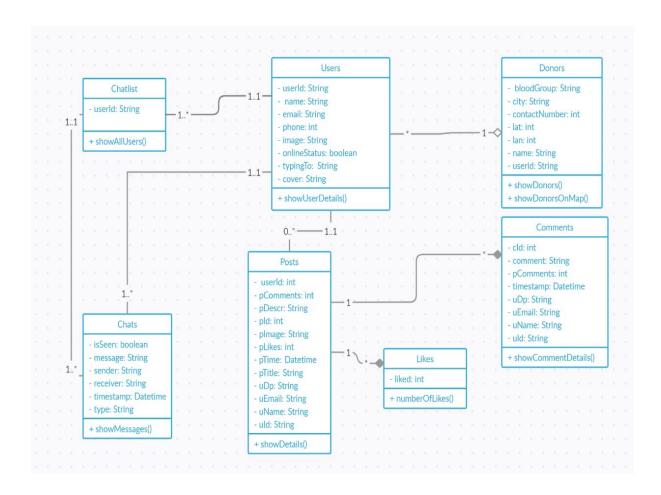


Figure: Class Diagram

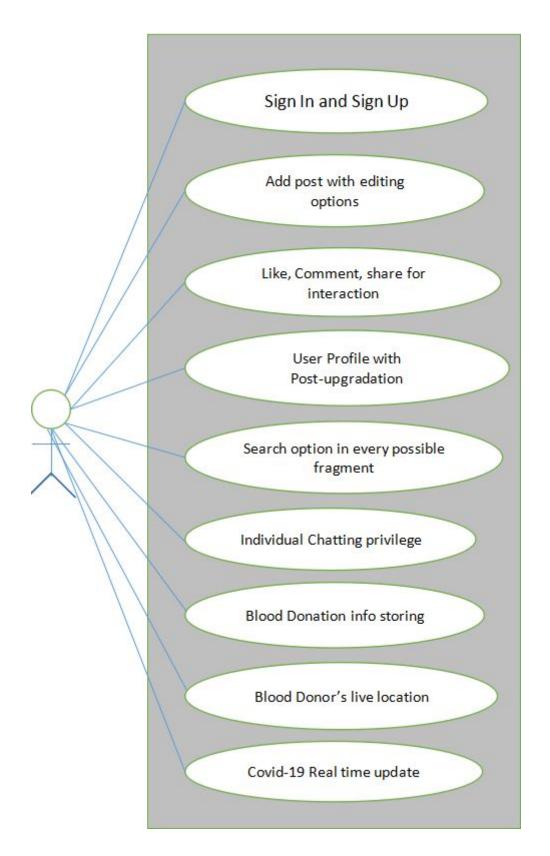
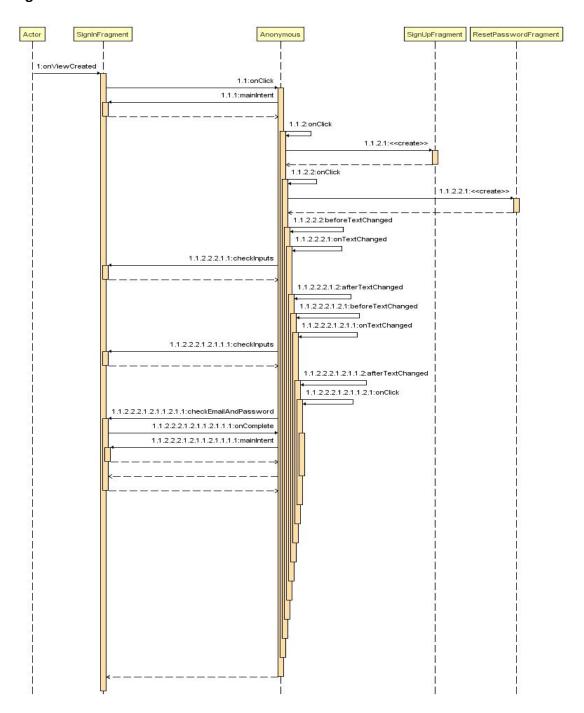


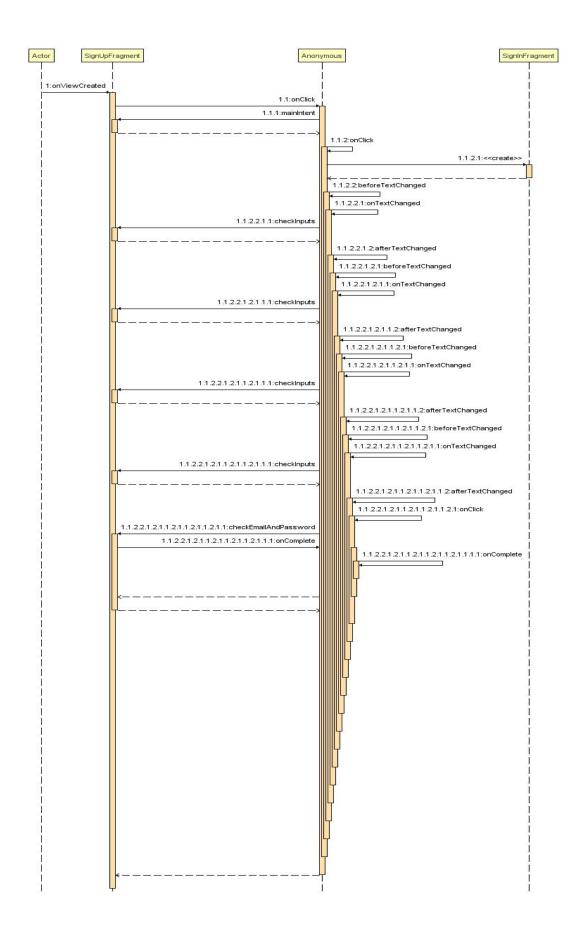
Figure: Use Case Diagram

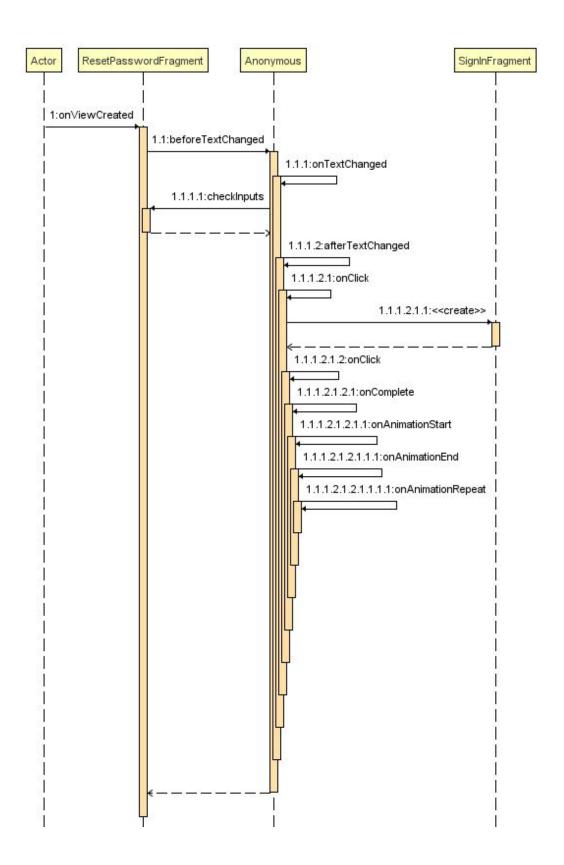
## 9. Sequence Diagram

## Sign in Portion:

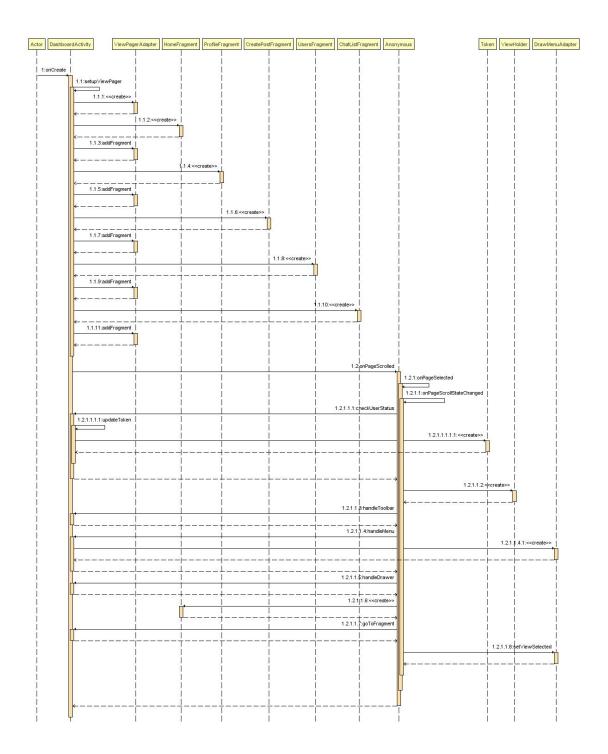


## Sign up portion:

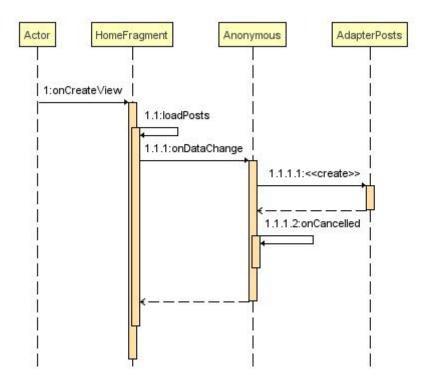




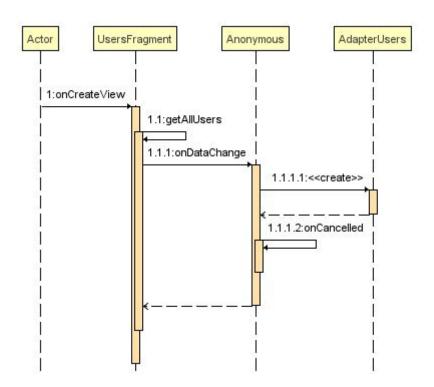
#### Dashboard:



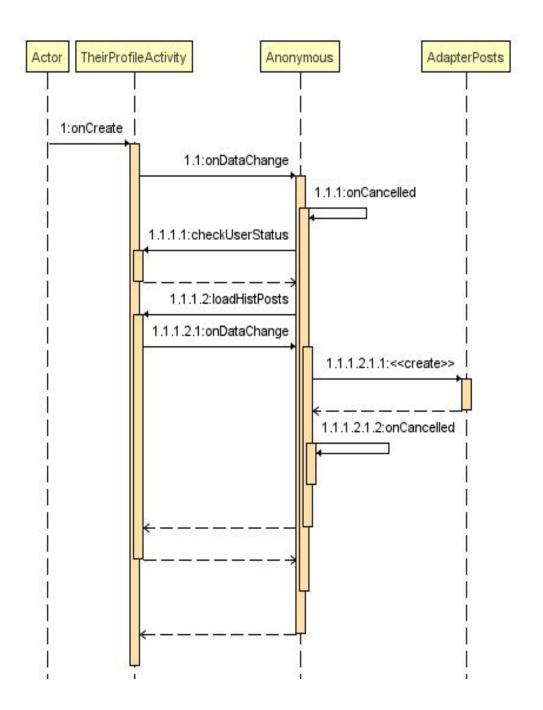
#### Home:

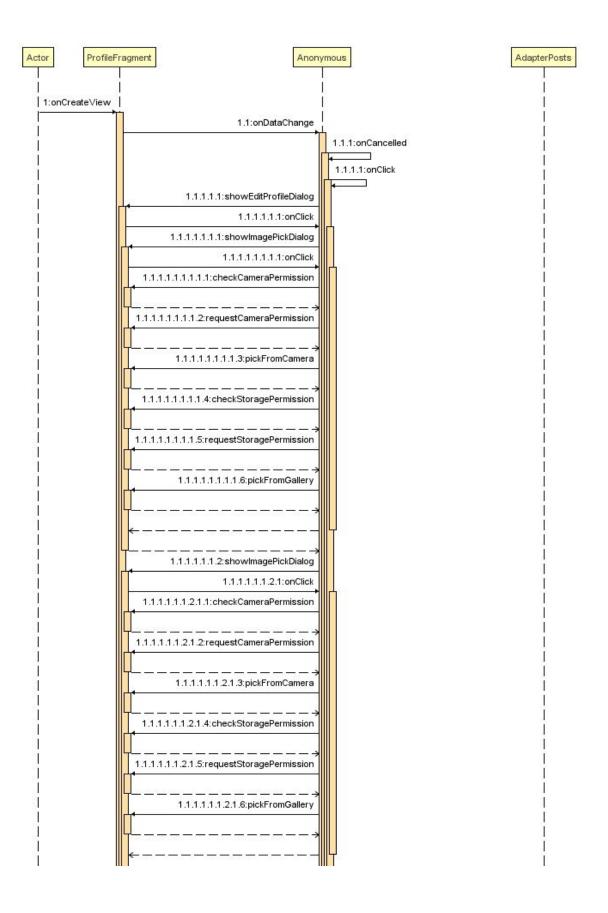


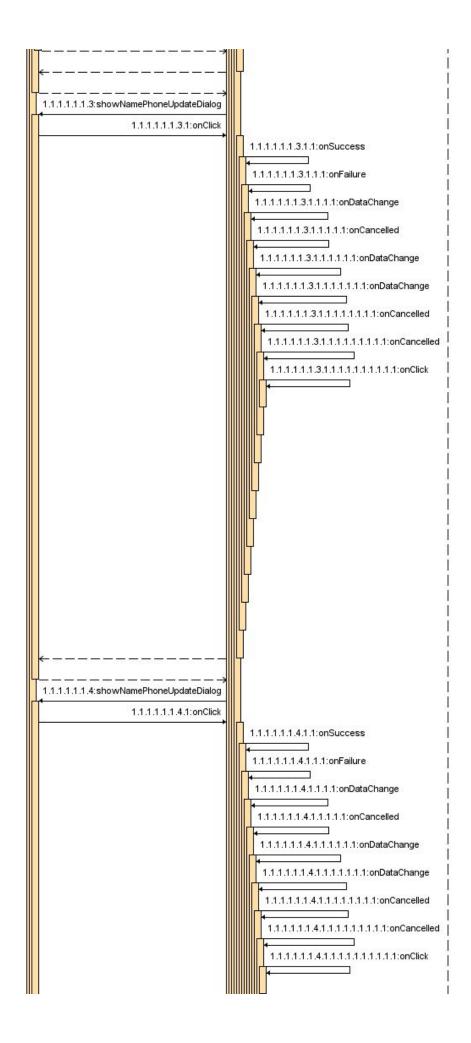
#### **Users:**

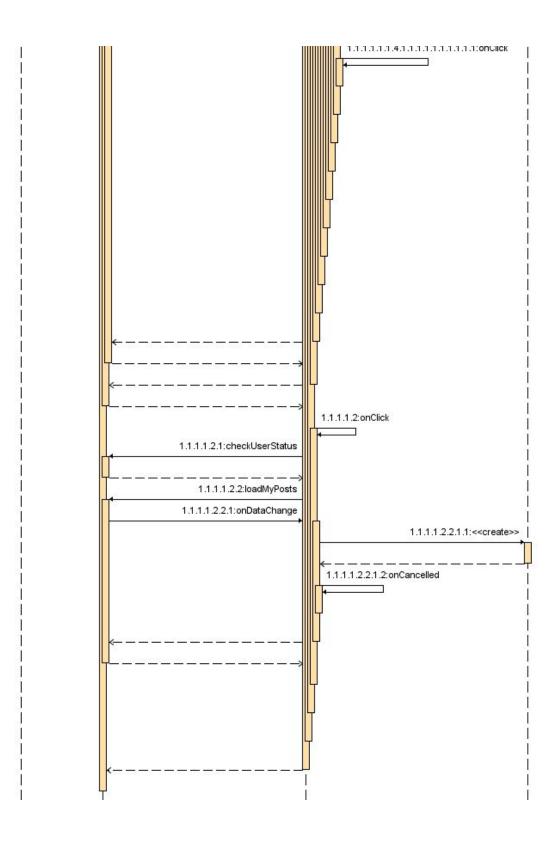


#### **Their Profile:**

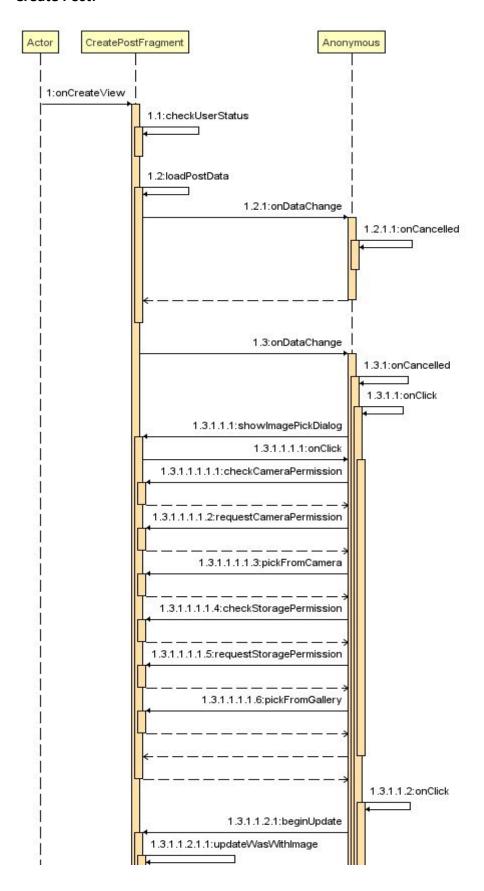


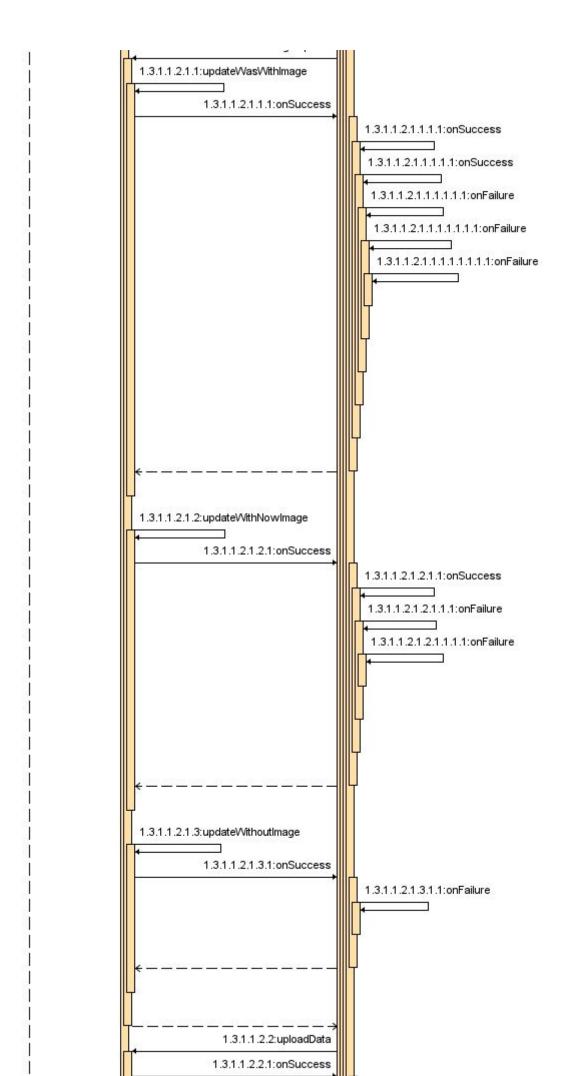


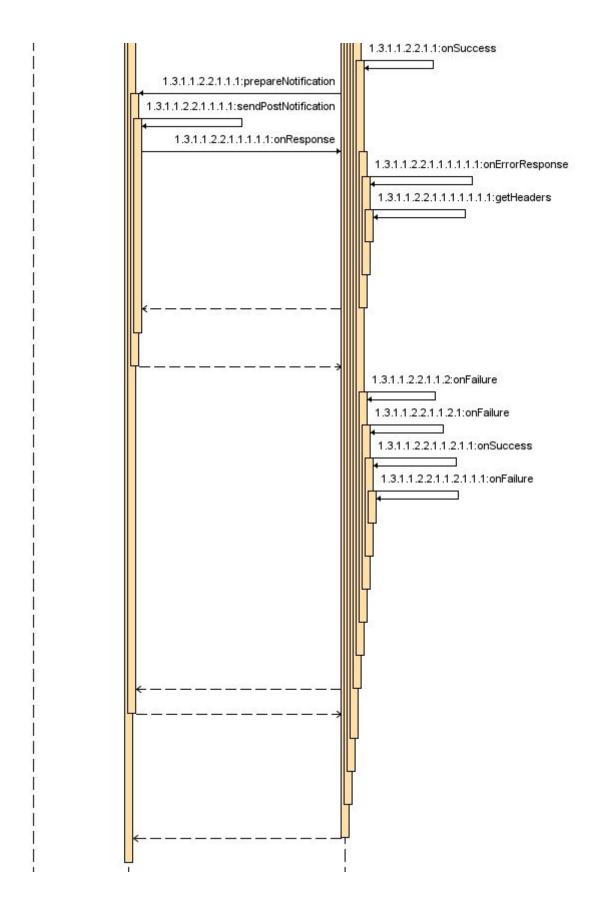




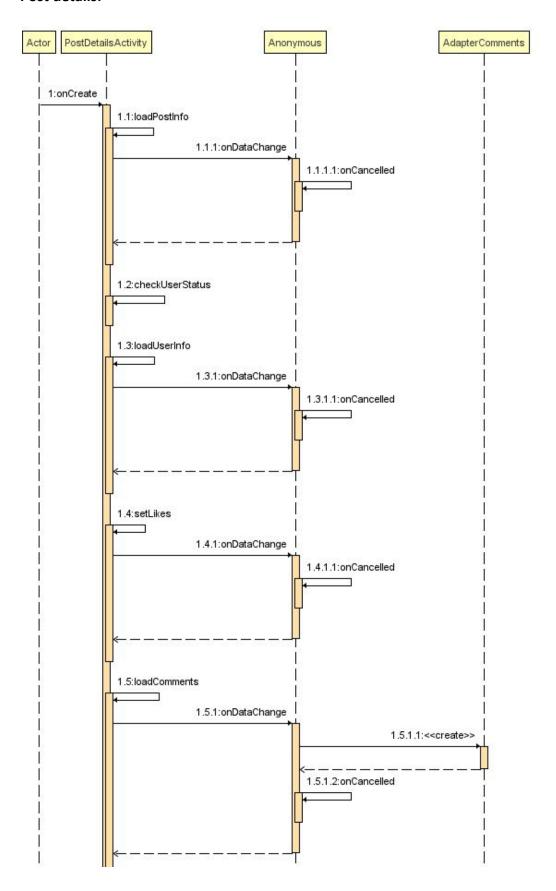
#### **Create Post:**

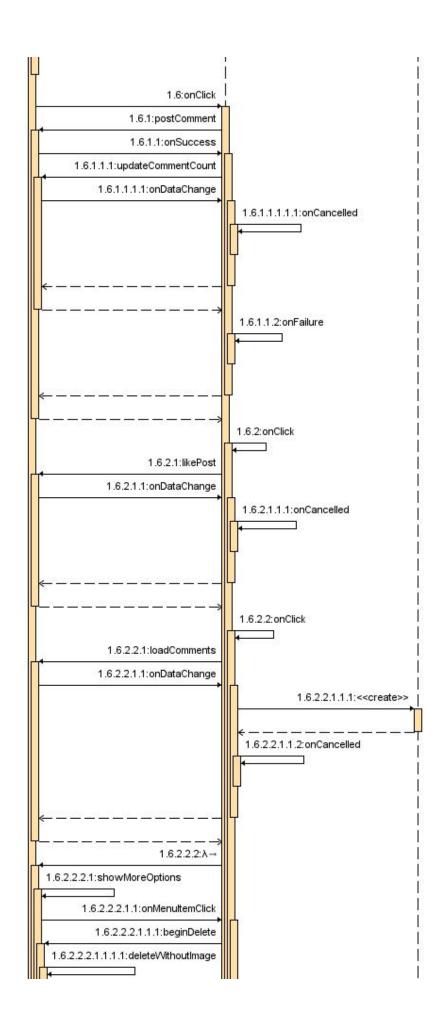


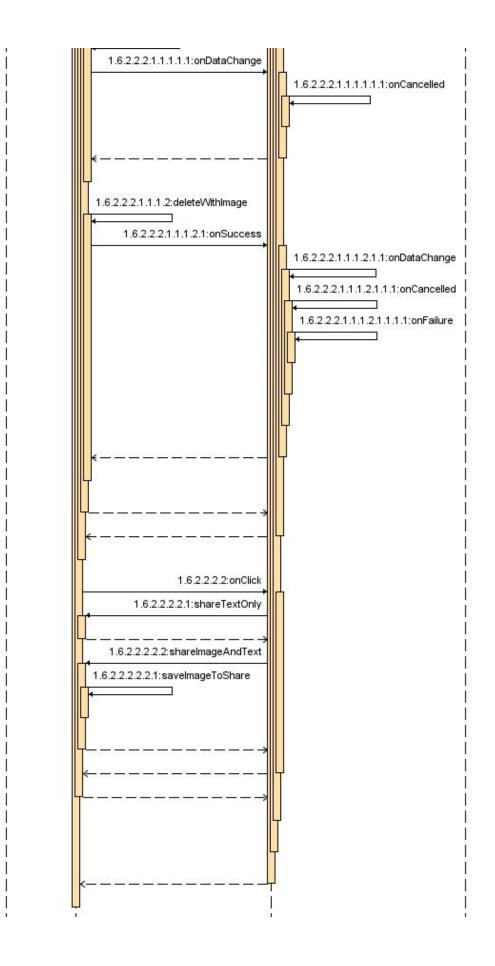




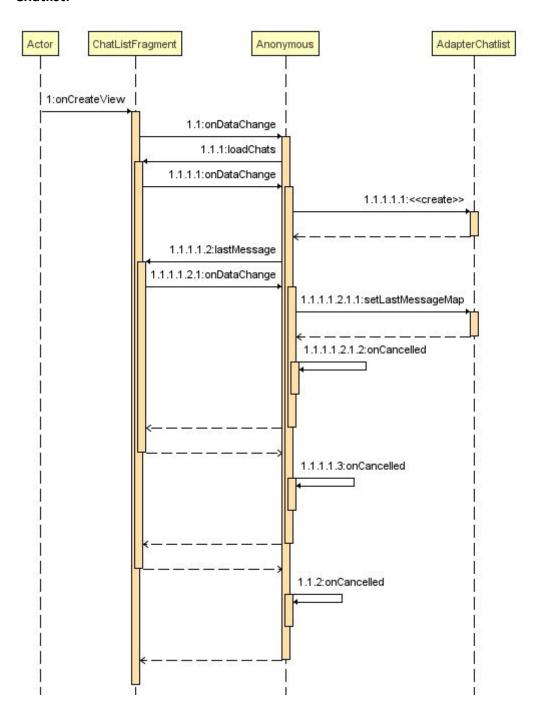
#### Post details:



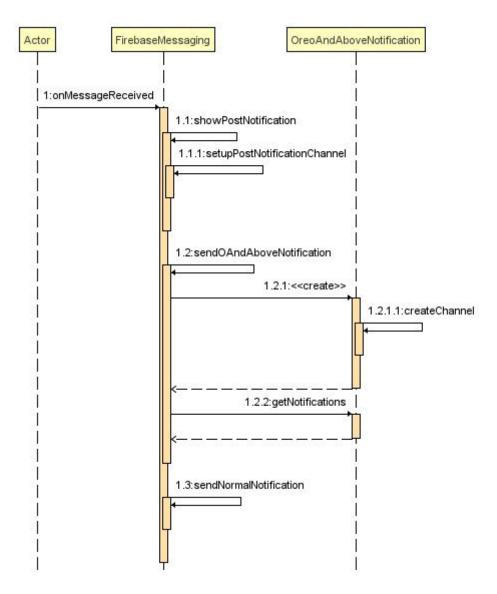




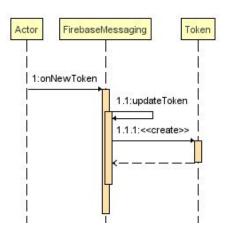
#### **Chatlist:**



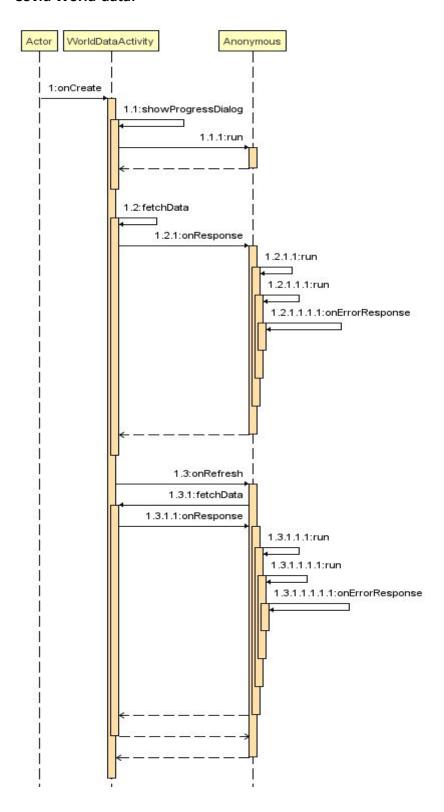
## **Notifications on Message received:**



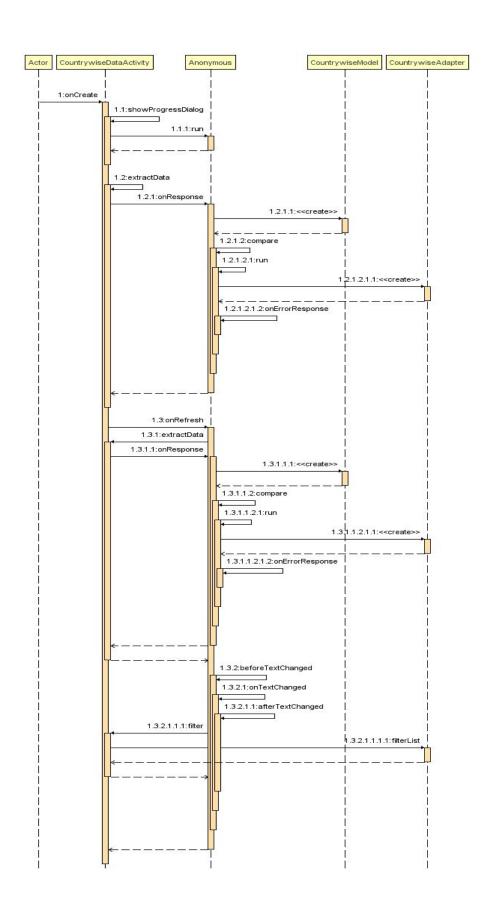
#### **Notification Token:**



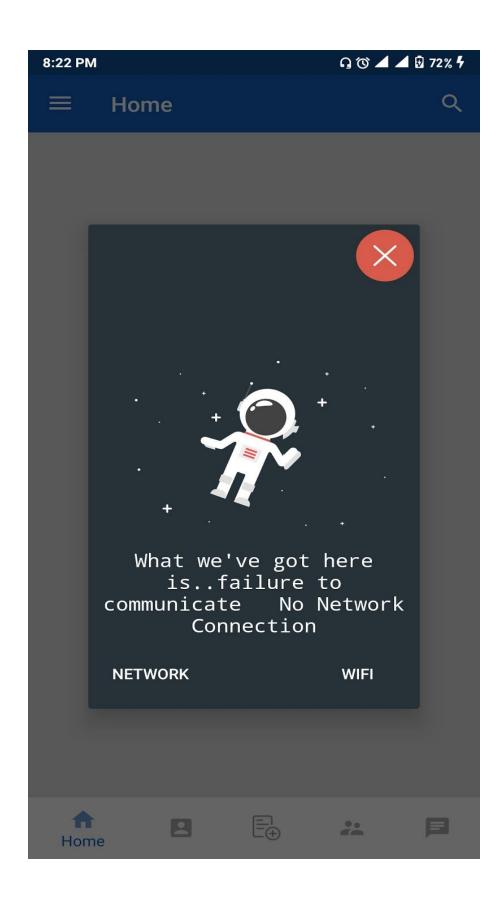
#### **Covid World-data:**



#### **Covid Country data:**



## 10. Snapshots of the App





E-mail

Full Name

Password (at least 8 Characters)

Confirm Password



## Forgot Password?

Don't worry, we just need your registered email address and it's done

< Go back

Donations of Blood

Covid Status

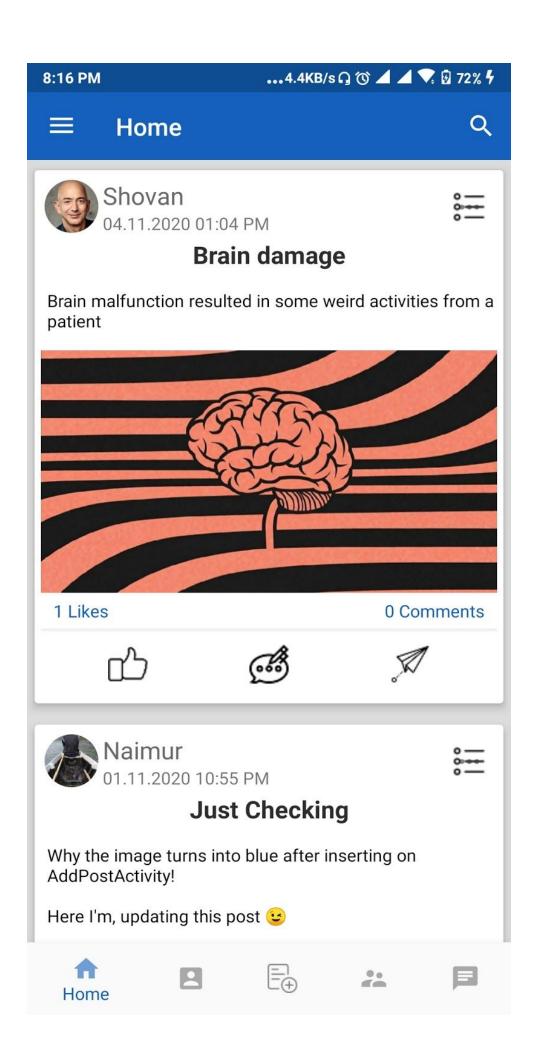
O Likes

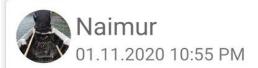
O Likes

Mit 11.7

Didn't work news, My a

**LOG OUT** 







## Just Checking

Why the image turns into blue after inserting on AddPostActivity!

Here I'm, updating this post 😉



2Likes 5 Comments









#### Comments



#### Shovan

I accidentally put tint on it. Now, ok 01.11.2020 11:01 PM



#### Naimur

Oh, okay then. Blood donation's background seems stunning

01.11.2020 11:03 PM



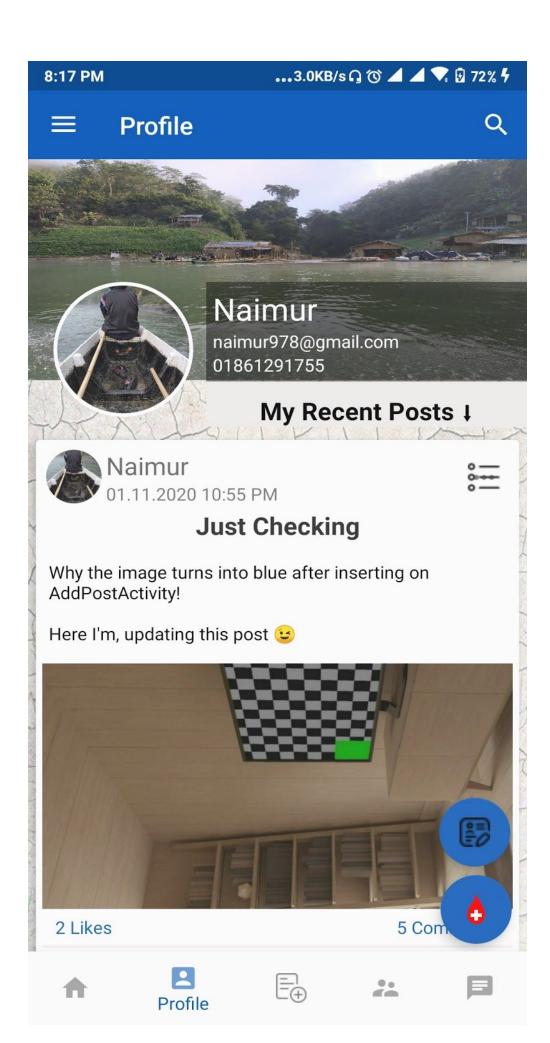
## Shovan

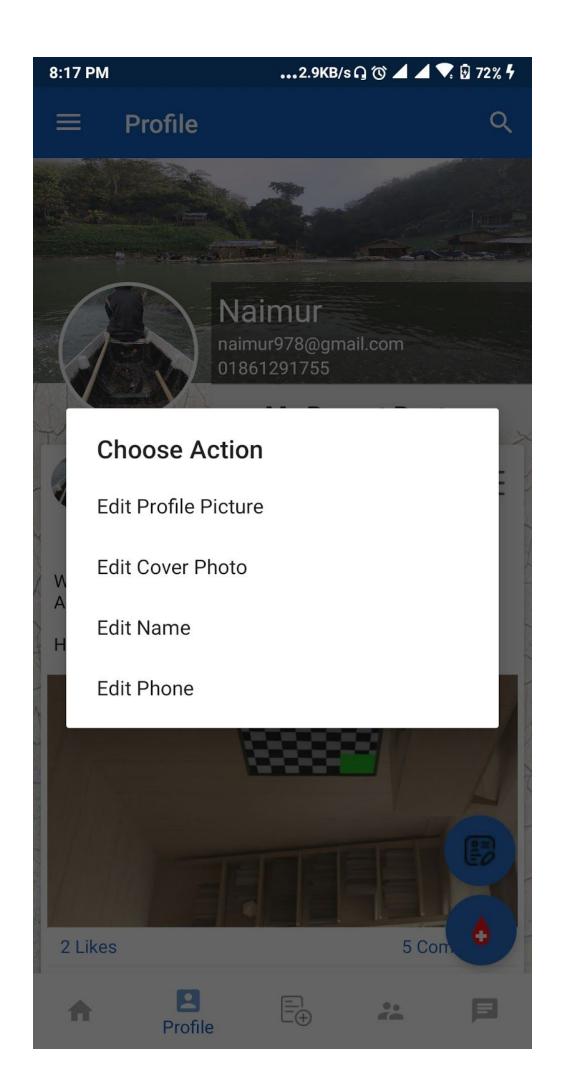
Gnjkkb



Enter comment here...

SEND



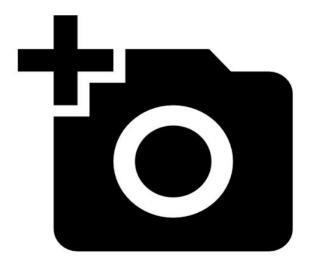




## **Add Post**

## Enter title

## Enter description...



UPLOAD

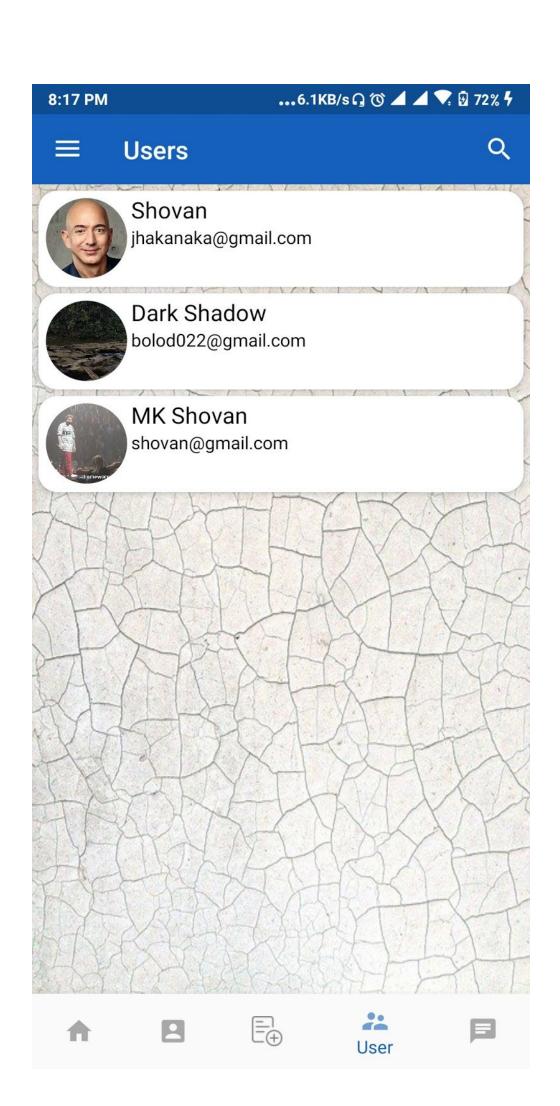


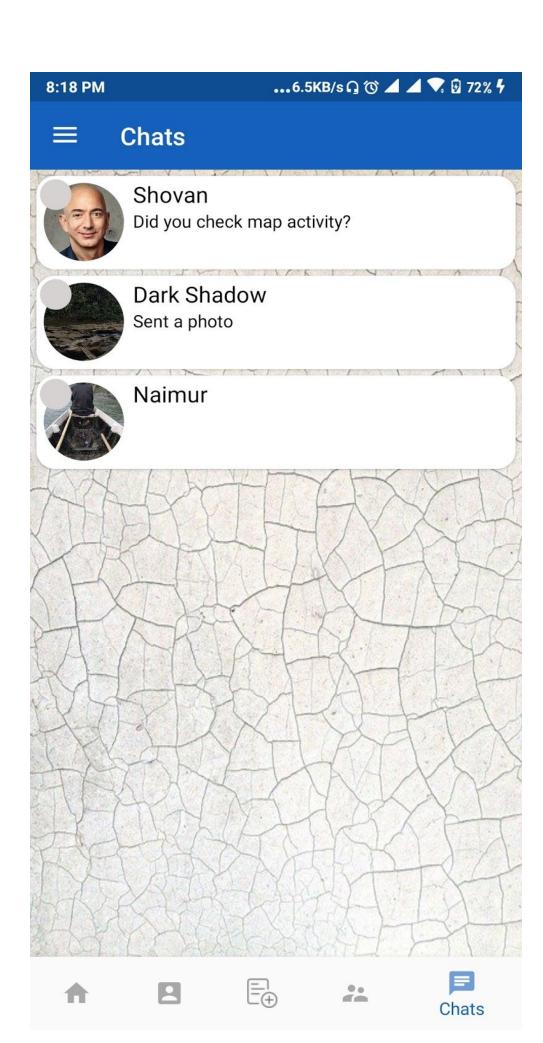


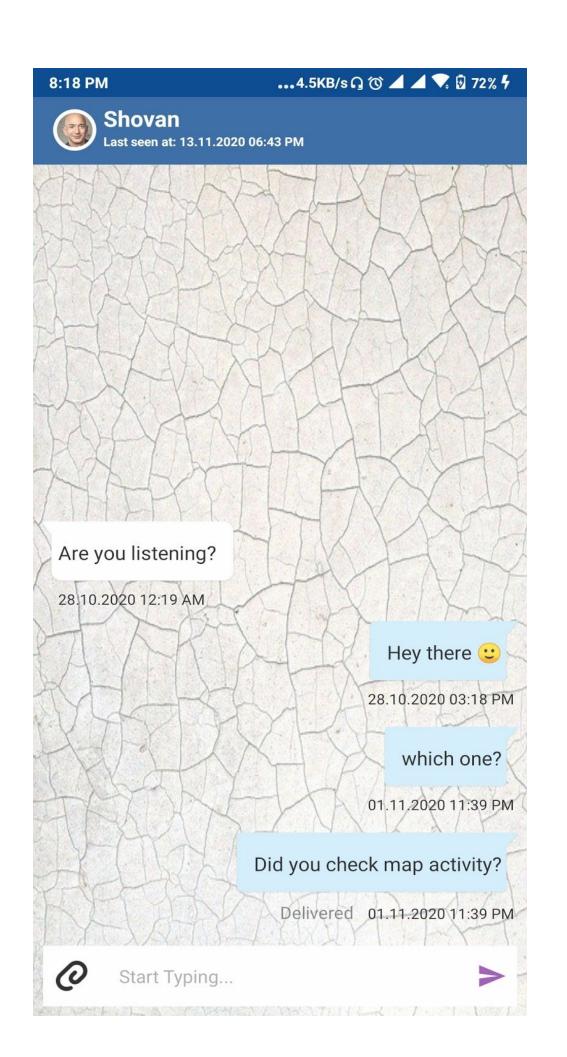


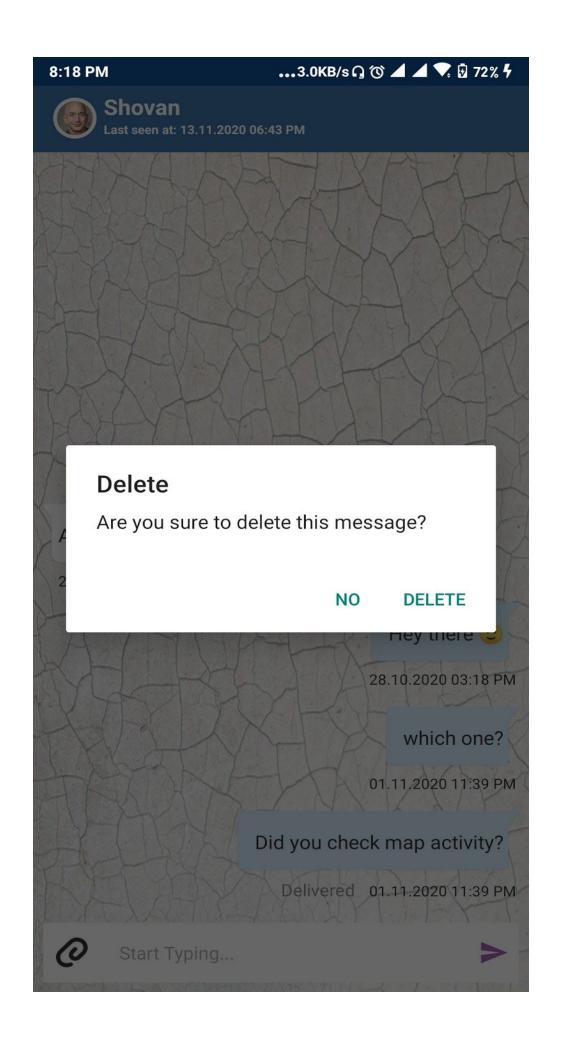


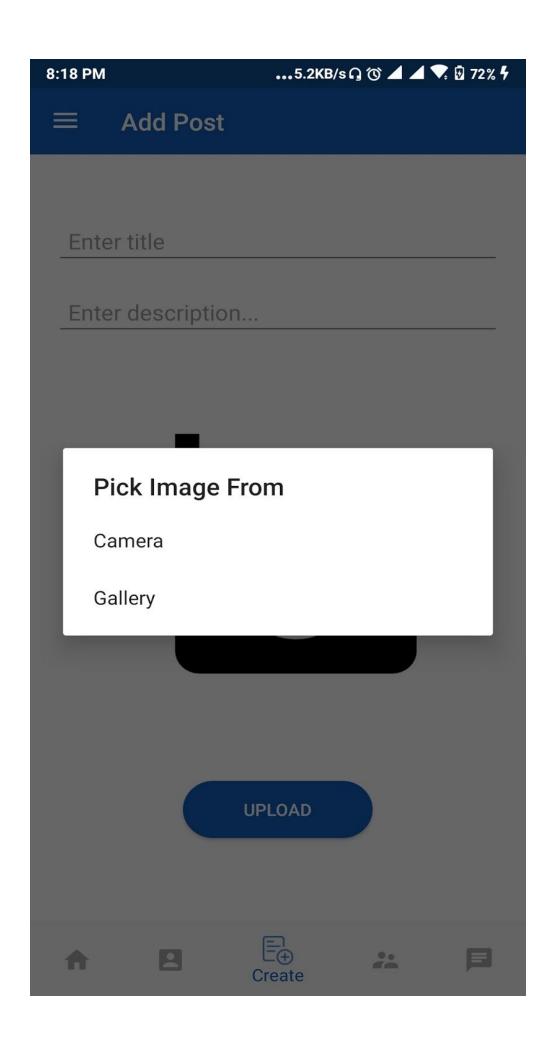














## Why Should You Donate Blood?

Giving blood saves lives. The blood you give is a lifeline in an emergency and for people who need long-term treatments. Many people would not be alive today if donors had not generously given their blood. Why we need you to give blood we need over 6000 blood donations every day to treat patients in need for people to give blood .Each year we need approximately 200000 new donors, as some donors can no longer give blood. Most people between the ages of 17-65 are able to give blood. Most people between ages of 17-65 are able to give blood. Around half our current donors are over 45. That is why we need more young people to start giving blood.

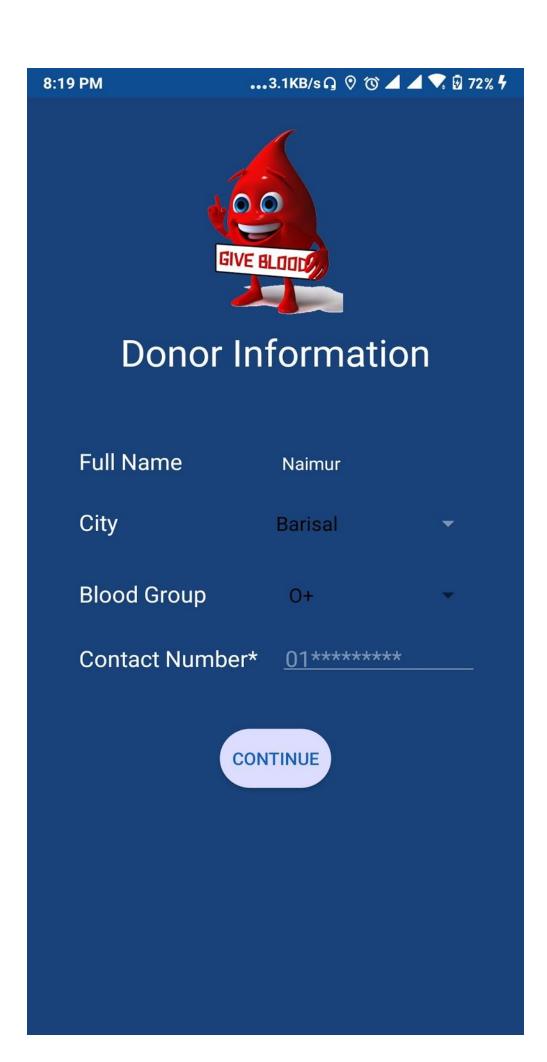
## **Eligibility Requirements**

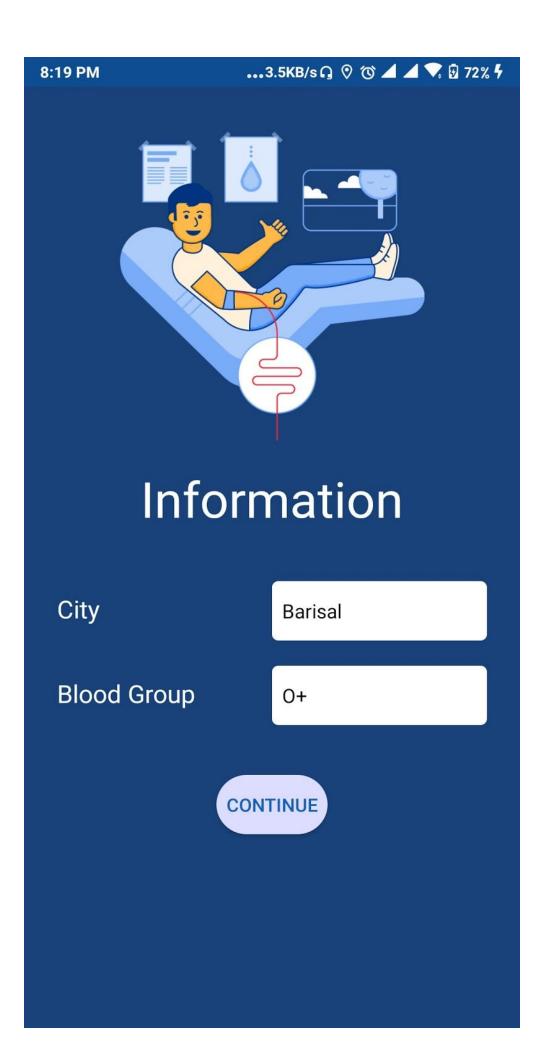
If you are male, you must:

- 1. Be healthy and feeling well
- 2. Be at least 17 years old
- 3. Be at least 5 ft 1 inch
- 4. Weigh at least 130 lbs.

If you are female, you must:

- 1. Be healthy and feeling well
- 2. Be at least 17 years old





ABC 0138907246234

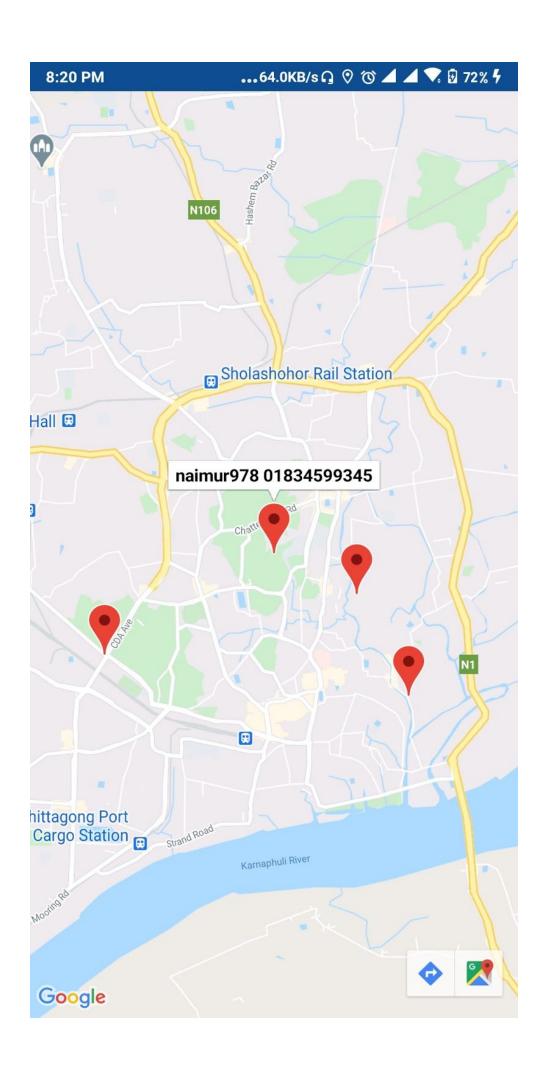
def 0111111122

naimur978 8657657

naimur978 01834599345

Jhaka Naka 12345

**SHOW ON MAP** 









## 11. Limitations

As the app is about health and health-related questions, also for all kinds of people, we couldn't add necessary functionality for little literate or fully illiterate people who could use the app. As our app doesn't have any physical database or data storage, we may not handle a lot of users at the same time. Lastly, our application shows the donors on the map as the donors set their location, not the current location. We couldn't afford to show the nearest valid blood donors on the map.

## 12. Future Work

We are planning to add some features in the next update. They are the followings-

Right now, we are accepting mail accounts for account creation. In future,

- We'll add phone number and OTP as the verifier of the account.
- Inserting Speech to Text feature to get interaction from all types of people.
- Deploying lots of animations for better User experience.
- Adding Bangla as another language of the application.