

# **Project Report**

## **On**

### **Anonymous Hope**

*Submitted in Partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering*

Submitted to



**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)**

Submitted By:

**Mohit Ajay Shrivastava (0126CS181068)**

**Ravi Kumar Verma (0126CS181083)**

**Ritika Raisinghani(0126CS181087)**

**Sudhakar Yadav( 0126CS181112)**

Under the Guidance of

**Dr LK Vishwamitra**

**Professor**

**Department of Computer Science & Engineering**



**ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL**

Approved by AICTE New Delhi & Govt. of M.P.

Affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.)

Session: 2020-21



# **ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL**

**Approved by AICTE New Delhi & Govt. of M.P. & Affiliated to Rajiv Gandhi**

**Proudyogiki Vishwavidyalaya, Bhopal (M.P.)**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

---

## **CERTIFICATE**

This is to certify that the work embodied in this Project, Dissertation Report entitled as **“Anonymous Hope”** being Submitted by **Mohit Ajay Shrivastava (0126CS181068), Ravi Kumar Verma (0126CS181083), Ritika Raisinghani (0126CS181087) and Sudhakar Yadav (0126CS181112)** in partial fulfillment of the requirement for the award of **“Bachelor of Technology ” in Computer Science & Engineering** discipline to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.) during the academic year 2020-21 is a record of bonafide piece of work, carried out under my supervision and guidance in the Department of Computer Science & Engineering, Oriental College of Technology, Bhopal.

**Approved By:-**

**Dr. LK Vishwamitra** - Guide

**Dr. Sanjay Sharma** - Head of Department

**Dr. Amita Mahor** - Director



## **ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL**

**Approved by AICTE New Delhi & Govt. of M.P. & Affiliated to Rajiv Gandhi**

**Proudyogiki Vishwavidyalaya, Bhopal (M.P.)**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

---

### **CERTIFICATE OF APPROVAL**

This Project “**Anonymous Hope**” being submitted by **Mohit Ajay Shrivastava (0126CS181068)**, **Ravi Kumar Verma (0126CS181083)**, **Mohit Ajay Shrivastava (0126CS181068)**, **Ritika Raisinghani (0126CS181087)** and **Sudhakar Yadav (0126CS181112)** has been examined by me & hereby approve for the partial fulfillment of the requirement for the award of “**Bachelor of Technology in Computer Science & Engineering**” for which it has been submitted. It is understood that by this approval the undersigned do not necessarily endorse or approve any statement made, opinion expresses or conclusion draw there in, but the Project only for the purpose for which it has been submitted.

**INTERNAL EXAMINER**

Date:

**EXTERNAL EXAMINER**

Date:

## **CANDIDATE DECLARATION**

We hereby declare that the Project dissertation work presented in the report entitled as “**Anonymous Hope**” submitted in the partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in Computer Science & Engineering of Oriental College of Technology is an authentic record of our own work.

We have not submitted the part and partial of this report for the award of any other degree or diploma.

**Mohit Ajay Shrivastava (0126CS181068)**  
**Ravi Kumar Verma (0126CS181083)**  
**Ritika Raisinghani (0126CS181087)**  
**Sudhakar Yadav (0126CS181112)**

Date:

This is to certify that the above statement made by the candidates is correct to the best of my knowledge.

**Dr LK Vishwamitra**  
**Guide**

## **ACKNOWLEDGMENT**

We are heartily thankful to the **Management of Oriental College of Technology** for providing us all the facilities and infrastructure to take our work to the final stage.

It is the constant supervision, moral support and proper guidance of our respected Director **Dr. Amita Mahor**, who motivated throughout the work.

We express deep sense of gratitude and respect to our learned guide **Dr LK Vishwamitra**, Professor in the Department of Computer Science & Engineering, during all phases' of our work. Without his enthusiasm and encouragement this dissertation would not have been completed. His valuable knowledge and innovative ideas helped us to take the work to the final stage. He has timely suggested actions and procedures for which we are really grateful and thankful to him.

We express our gratefulness to **Dr. Sanjay Sharma** Head of Computer Science & Engineering Department for providing all the facilities available in the department for his continuous support, advice, and encouragement during this work and also help to extend our knowledge and proper guidelines.

Constant help, moral and financial support of our loving parents motivated us to complete the work. We express our heartily thanks to our all family members for their co-operation.

We really admire the fond support of our class-mates for their co-operation and constant help. It gives immense pleasure to acknowledge the encouragement and support extended by them. Last but not the least we are extremely thankful to all who have directly or indirectly helped us for the completion of the work.

**Mohit Ajay Shrivastava (0126CS181068)**  
**Ravi Kumar Verma (0126CS181083)**  
**Ritika Raisinghani (0126CS181087)**  
**Sudhakar Yadav (0126CS181112)**

## ABSTRACT

The blood is a lifesaver if there ever emerges any events of the emergency needs. The errand of the blood bank is to get the blood from the different types of people caning to donate the blood, to manage blood bundles' database and to provide the needed blood in between of the need to the mending donation if there emerges any events of emergencies. The issue here isn't the lacking number of the people caning to donate the blood, but finding any enthusiastic volunteer/donor at the advantageous time. We have to make an arrangement of people who may help each other in between of an emergency. The android and website application in this project prompts the updates of the information for the volunteer /donors where the chief gets the entire information about the blood donation system. Give away/donor can then be incited into entering a man's purposes of information, like name, email, phone number, and the blood group. At the usual time of any blood need, one can quickly check the anonymous hope android and website application database or recuperating database planning related or explicit the blood gathering and the interface with them through android and website application.

The blood bank android and website application gives away all over information of the blood bank android and website application focused on your region. A noteworthy number of people caning to donate the blood can be pulled into using this android and website application. Since about everyone now carries mobile phones with them, to ensure minute region surveillance and correspondent changes. Only an enrolled individual self, with the capacity to give away the blood, can have the ability to get to the society. In this android and website application we are using the GPS advancements which can be used to be pursued the course to the blood bank. The user can get the course to be accomplished using the pin for each region and they will not be asking physically, thus time can be saved. With uprising of correspondence nowadays, one needs headways upgrades to all territories, especially for prosperity space.

This report gives an android and website application a system which is planned to giveaway most information needed for the blood social circle or affair which is reliably asked for an advancing reason. The system depicts the convenience and the ease to contact with different suppliers and dejects for different blood social events. The android and website application acquaints on the insightful contraptions with the assurance of the arrival of a greatest possible no. of the red blood benefactors within the country.

Catchphrases: Bloodbank, android, website, the red blood transfusion, database, and people can donate the blood, acceptors, administrator, geographic information system.

## **LIST OF FIGURES**

<b>LIST OF FIGURE</b>	<b>TITLE</b>	<b>PAGE NO.</b>
FIGURE NO. 1	ITERATIVE MODEL	6
FIGURE NO. 2	DATA FLOW DIGRAM (ZERO LEVEL)	8
FIGURE NO. 3	DATA FLOW DIGRAM (FIRST LEVEL)	8
FIGURE NO. 4	DATA FLOW DIGRAM (SECOND LEVEL)	9
FIGURE NO. 5	SYSTEM FLOW CHART	9
FIGURE NO. 6	ER DIAGRAM	10

## **LIST OF TABLE**

<b>TABLE NO.</b>	<b>TITLE</b>	<b>PAGE NO.</b>
TABLE NO. 1	DATA DICTIONARY	10-11
TABLE NO. 2	LOGIN FORM	24
TABLE NO. 3	REGISTER FORM	24
TABLE NO. 4	DONOR MODULE	25
TABLE NO. 5	RECEIVER MODULE	25-26

## **TABLE OF CONTENTS**

<b>Ch.No</b>	<b>Contents</b>	<b>Page No.</b>
<b>1.</b>	<b>Introduction</b>	1-2
<b>2.</b>	<b>Detailed Project Profile</b>	3
<b>3.</b>	<b>Software Requirement Specification</b>	4-7
	3.1 Purpose	4
	3.2 Scope	4
	3.3 Abbreviations	4
	3.4 Feasibility Study	4
	3.5 Hardware Requirement / Software Requirement	4-6
	3.6 Software Process Model Used	6-7
<b>4.</b>	<b>System Documentation</b>	8-11
	4.1 DFD	8-9
	4.2 System Flow Chart	9
	4.3 ER diagram	10
	4.4 Data Dictionary	10-11
<b>5.</b>	<b>User Manual</b>	12-30
	5.1 Introduction and Guidelines	12
	5.2 Screen Layouts and Description	13-23
	5.3 Output Reports	24-30
<b>6.</b>	<b>Limitations</b>	31
<b>7.</b>	<b>Future Enhancements</b>	32
<b>8.</b>	<b>Conclusion</b>	33
<b>9.</b>	<b>Bibliography</b>	34
<b>10.</b>	<b>Appendix – I (Source Code)</b>	35-40



# **INTRODUCTION**

## **Overview of Project**

Everyday 12,000 people in India die due to the sheer lack of donated blood.

With the help of this framework we can discover contributor for the correct blood classification and it becomes simpler to make the association among giveaway/donor and also the blood bank specialists without much of a stretch.

The donor and receiver connect directly through our app and website eliminating the need to wander around in hospitals and blood banks in search of required blood using GPS.

Blood bank is an android and website application which utilizes the Firebase Real-time Database in order to gather & sort out the data of each of the blood benefactors with a quick and efficient seek. Record should be produced for the android and website application utilizing the Firebase Console. The undertaking of the android and Website (Anonymous Hope) framework was created so that the clients see the data about the enrolled blood contributors,

These android and website applications select the correct benefactor online then and flash utilizing and restorative subtle elements which are alongside the available blood bunch. It is the primary point of making this android and website application to decrease opportunity, as it was which was spent for finding the correct giver/donor and also the accessibility of the correct red blood required. Thus, this android and website application gives away the exact required data no matter of moments and then furthermore helps for a faster basic leadership.

## **Objective**

- People in India are facing problems in getting blood or plasma on time due to lack of such platforms that could make this process faster.
- Our platform will help the person in need of blood or plasma to get it on time.
- The receiver can directly contact the registered donor (Donor will register himself on our app).

## **PROBLEM STATEMENT**

### **Problem**

- The major problem in old Blood banking systems was that, they don't follow the actual needs of users.
- Traditional blood banking systems were developed by 1 or 2 perspective.
- Tracking the database was complicated when the details are maintained manually.
- There was shortage and sometimes unavailability of rare blood groups due to less modules i.e. patient and donors.

### **Solution**

- A better idea is to use the application through Portable device.
- This application is providing each entity the facility to approach nearby blood donors so that it will become much easier to search rare blood groups in the hour of need.

## **Detailed Project Profile**

This Project is design for Two types of user:-

1. Donor
2. Receiver

### **Donor:-**

- The donor will register himself.
- He can do so through our website or app.
- Donor can actively participate through live feed.

### **Receiver:-**

- The receiver will login.
- He can post blood request.
- He can search blood donor instantly via search blood donor option.

### **Features of our project:-**

- Secure authentication.
- Live Feed.
- Search blood donor.
- Post blood request.
- Search near hospitals.
- Chatbot.
- Corona virus live tracker.
- Call and message integrated.
- Push Notification.
- Statistics.

# **Software Requirement Specification**

## **PURPOSE**

- This project is providing each entity the facility to approach nearby blood donors so that it will become much easier to search rare blood groups in the hour of need.
- It will be a medium to help people in the hour of need.
- Using this, the people can reach the blood donor in no time which can save many lives.

## **SCOPE**

This project is a blood donation project (which is an application and a website). This project will connect donor and receiver directly only by searching and posting the needed blood group.

The android application is well defined and has a simple UI which is user friendly moreover, if the user doesn't have any android device they can access through our website which can be accessed from any device anywhere in the world provided the internet connection.

## **FEASIBILITY STUDY**

This is a free project and doesn't provide any promotion. The purpose of the project is to help everyone in need of blood. The project is developed with minimum complexity. The cost of project varies on the basis of user operating it. The service cost may vary from 2 – 2.5 lacs.

## **SOFTWARE REQUIREMENT**

### **PREREQUISITES**

- Android Studio.
- Firebase.
- Wordpress.
- Rest API.
- Google-services .json record produced for the android application.
- Android SDK (This rendition composed for the SDK 25 as a target) NB: A steady web association is required first.

## **ASSUMPTION**

- GPS can follow the present area of the client precisely.
- Users are providing the valid credentials.
- In order to contact (call and message) user's has primary SIM card should be active.

## **DEPENDENCIES**

- Tracing relies on the Google Maps API's.
- Firebase for backend as well as database.
- Plug-ins
- This venture also relies on the REST web administrations.
- It is suitable for any sort of individual.

## **SYSTEM FEATURES**

### **MOBILE ANDROID APP AND WEBSITE**

The android application is well defined and has a simple UI which is user friendly moreover; if the user doesn't have any android device they can access through our website which can be accessed from any device anywhere in the world provided the internet connection.

### **LOCATION ACCURACY**

The Google API is the best open source which provides the best result. The location is accurate and precise and the manipulation in the representation of data is also customizable.

### **SYSTEM SECURITY**

The project provide secure authentication. The password is salted before posting in database and OTP verification and forgot password also strengthens the security. The database is highly secured and the user will be safe to run this project.

### **CONTACT**

The user can call or send message to the donor via our application and whenever any receiver post any request the notification will be send to all users. This will strengthen the connection

between donor and receiver.

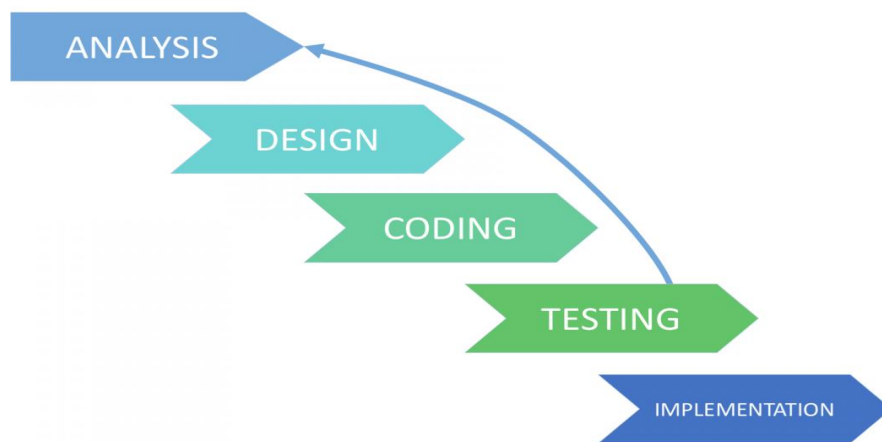
## DESIGN & IMPLEMENTATION CONSTRAINTS

Making a UI which is both effortlessly powerful & traversable can be a troublesome test. The essential requirement may be which we might be making an android and website application for the portable stage. The other imperative regards to the versatile can be process power & restricted memory.

## SOFTWARE PROCESS MODEL USED

### Iterative Model

An iterative life cycle model does not attempt to start with a full specification of requirements by first focusing on an initial, simplified set of user features, which then progressively gains more complexity and a broader set of features until the targeted system is complete. When adopting the iterative approach, the philosophy of incremental development will also often be used liberally and interchangeably.



Iterative Model

### Advantages of Iterative Model:-

- Some working functionality can be developed and early in the software development life cycle (SDLC).
- It is easily adaptable to the ever changing needs of the project as well as the client.
- It is best suited for agile organizations.
- It is more cost effective to change the scope or requirements in Iterative model.
- Parallel development can be planned.
- Testing and debugging during smaller iteration is easy.

- Risks are identified and resolved during iteration; and each iteration is an easily managed.
- In iterative model less time is spent on documenting and more time is given for designing.

### **Disadvantages of Iterative Model:**

- More resources may be required.
- Although cost of change is lesser, but it is not very suitable for changing requirements.
- More management attention is required.
- It is not suitable for smaller projects.

# SYSTEM DOCUMENTATION

## DATA FLOW DIAGRAM

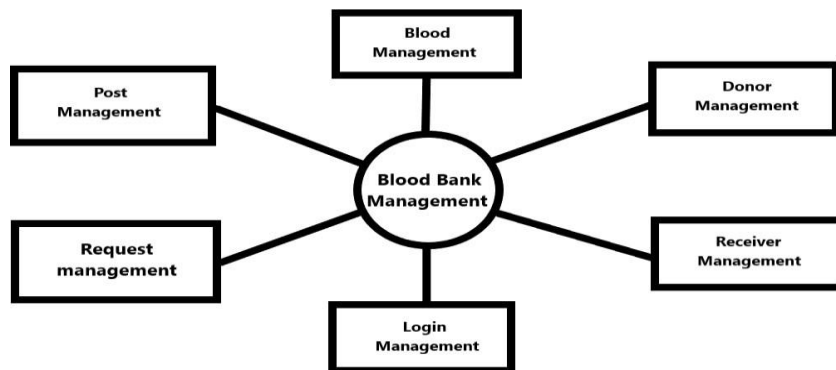


Figure.1 ZERO LEVEL DFD

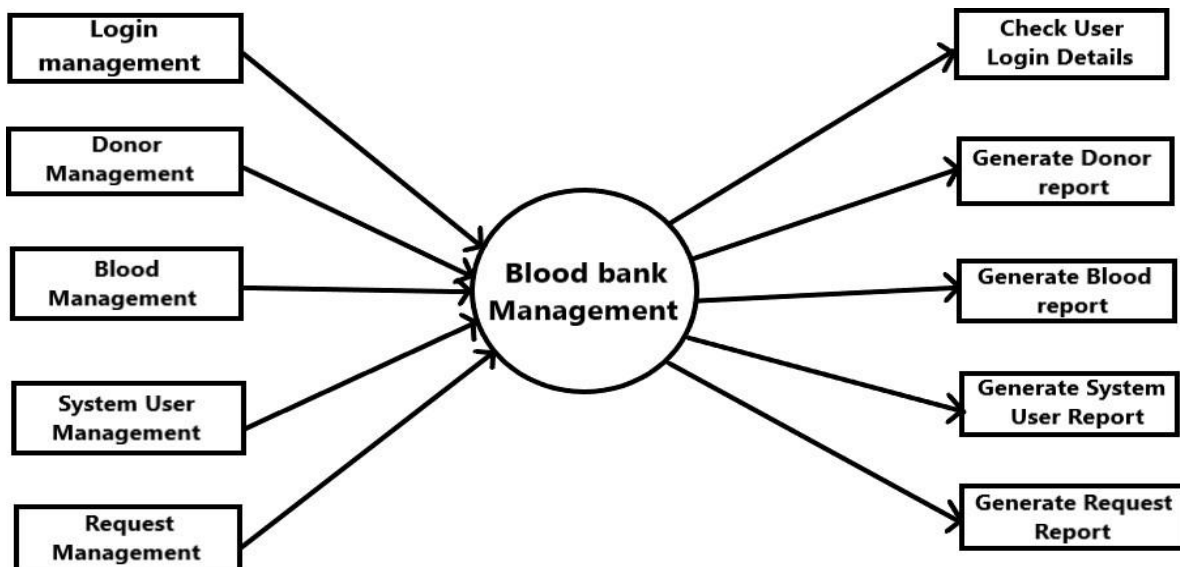


Figure.2 FIRST LEVEL DFD



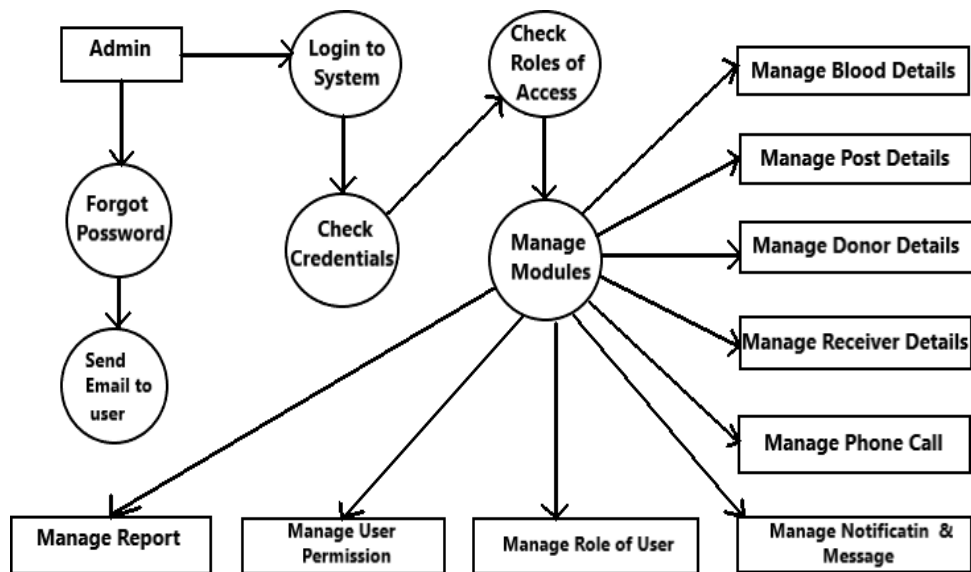


Figure.3 SECOND LEVEL DFD

## SYSTEM FLOW CHART

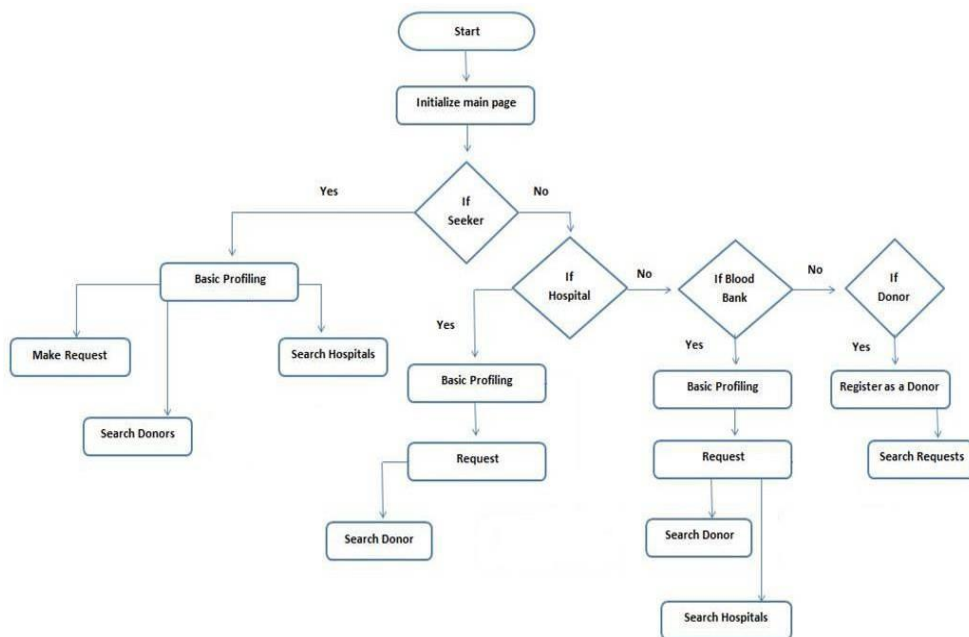


Figure.4 SYSTEM FLOW CHART

## ER DIAGRAM

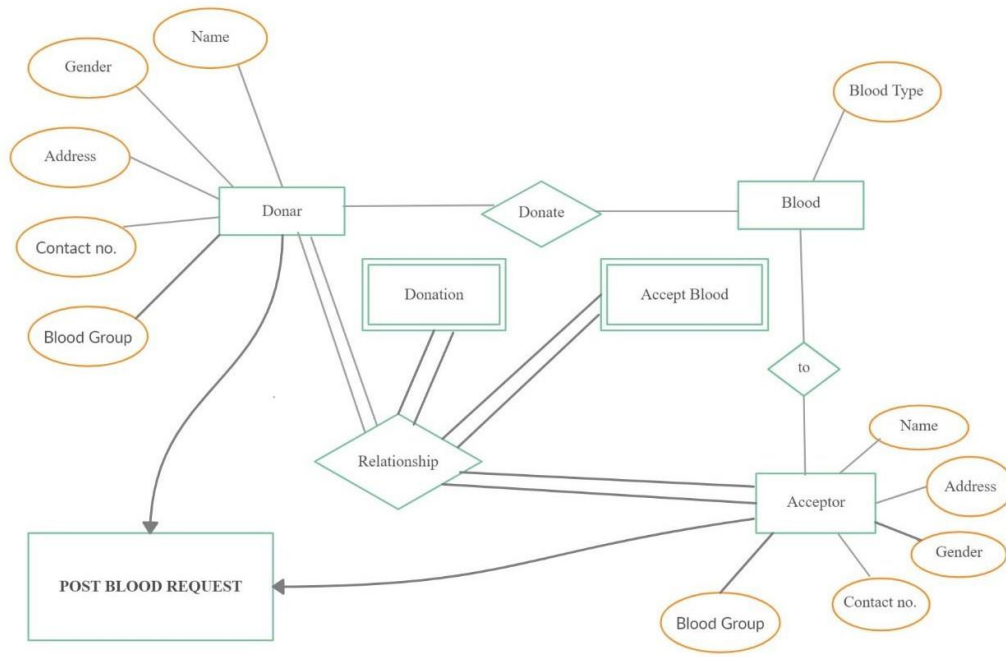


Figure.5 ER DIAGRAM

## DATA DICTIONARY

<b><i>DONOR Collection</i></b>		
<b><i>Field_name</i></b>	<b><i>Data_type</i></b>	<b><i>Description</i></b>
Name	String	The name of the donor.
Blood Group	String	The Blood Group of the donor.
Phone Number	Long	The contact number of the donor.
Address	String	The Address of the user.
Last Donate	Time Stamp	Last time user donated.
Total Donate	int	Total number of donations by user.
Division	spinner	City by which search operated.

<b><i>USER Collection</i></b>		
<b><i>Field_name</i></b>	<b><i>Data_type</i></b>	<b><i>Description</i></b>
Name	String	The name of the user.
Phone Number	Long	The contact number of the user.
Blood Group	String	The Blood Group of the user.
Address	String	The Address of the user.
Division	spinner	City by which search operated.
Gender	spinner	Gender of the user.

<i><b>POST Collection</b></i>		
<i><b>Field_name</b></i>	<i><b>Data_type</b></i>	<i><b>Description</b></i>
Name	String	The name of the user.
Phone Number	Long	The contact number of the user.
Blood Group	String	The Blood Group of the user.
Address	String	The Address of the user.
Division	spinner	City by which search operated.
Date	Time Stamp	Date when the post is created.
Time	Time Stamp	Time when the post is created.

<i><b>AUTHENTICATION Collection</b></i>		
<i><b>Field_name</b></i>	<i><b>Data_type</b></i>	<i><b>Description</b></i>
Email	String	The E-mail of the user.
Password	Password	The Password of the user.

Table.1\_DATA DICTIONARY

# **USER MANUAL**

## **INTRODUCTION**

Blood bank is android and website application which utilizes the Firebase Real-time Database in order to gather & sort out the data of each of the blood benefactors with a quick and efficient seek. Record should be produced for the android and website application utilizing the Firebase Console. The undertaking of the Android and Website (Anonymous Hope) framework was created so that the clients see the data about the enrolled blood contributors.

## **Guidelines**

### **For Donor:-**

- Register as Donor.
- Click navigation bar and choose operation to perform.
- In home option you can see all requests for blood.
- There is option to update profile.
- There is option to manage statistics.
- There is option to search nearest Hospitals.
- There is a option to Corona Live Tracker, track COVID-19 local and global corona virus with active, recoveries, death etc.
- In home view section you can directly connect with Seeker via call & message.
- Logout.

### **For Receiver:-**

- Register as Receiver.
- Click navigation bar and choose operation to perform.
- In home option you can see all requests for blood.
- There is option to update profile.
- There is option to find blood donor.
- There is option to search nearest Hospitals.
- There is a option to Corona Live Tracker, track COVID-19 local and global corona virus with active, recoveries, death etc.
- In Find Blood Donor section you can directly connect with donor via call & message.
- Using + floating button , you can post blood request.
- Logout.

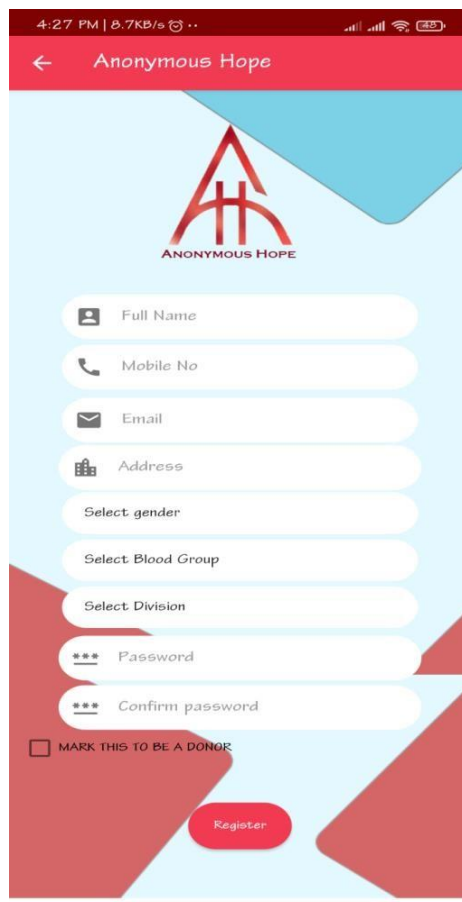
## SCREEN LAYOUTS AND DESCRIPTION

### FOR ANDRIOD

The layout and screenshots which are used in this report are based on Anonymous hope version 1.0.

The min SDK version is 21 and target version is 29.

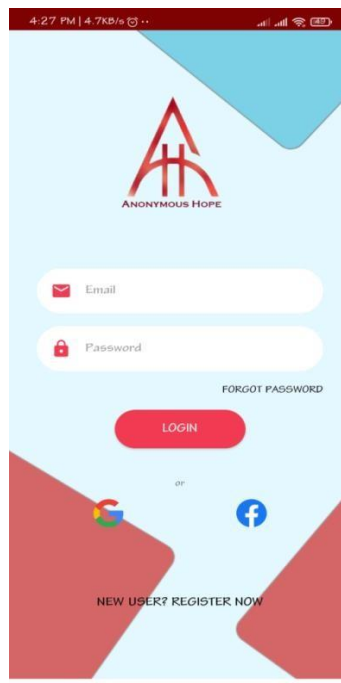
### REGISTER PAGE



- Here the donor can register himself so that when someone is in need of blood can find the donor.
- The user can only donate if the mark as donor is checked.
- User needs to fill the valid information to register.

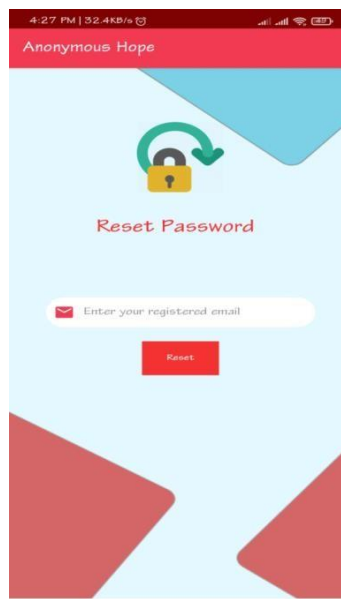
Note: Hospitals can also act as donors or receivers.

## LOGIN PAGE



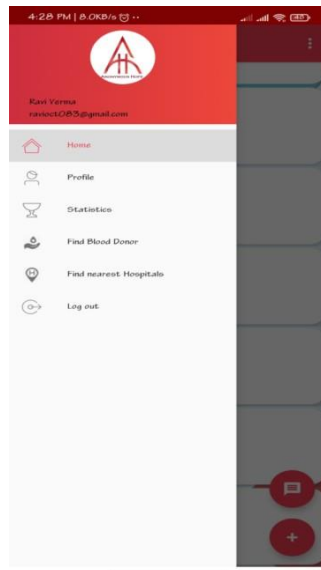
- If you are already registered then directly user can login using his credentials.

## RESET PASSWORD PAGE



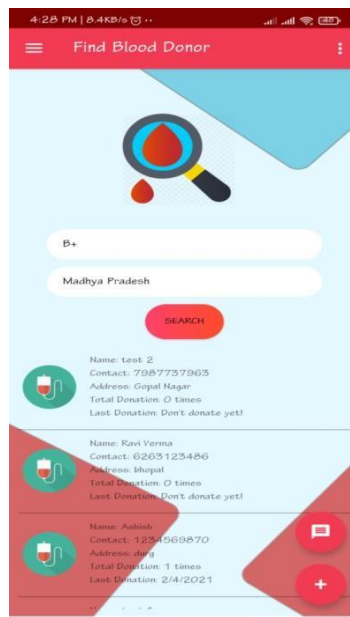
- In case the user forgets his/her password he can reset his password by entering his registered email.

## NAVIGATION BAR



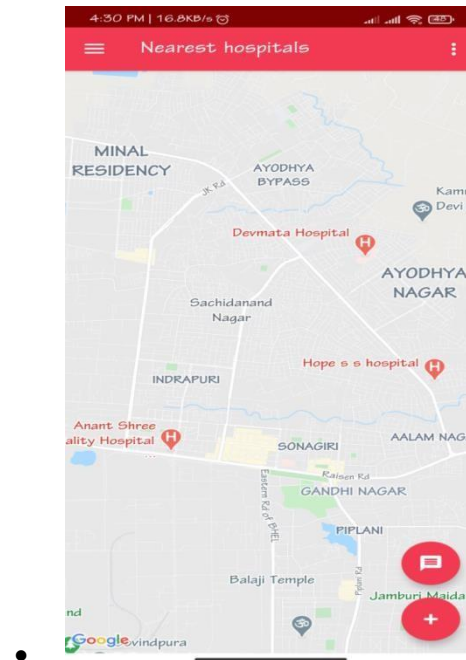
- As soon as the user logs into our app he can find all the options in our navigation bar.

## FIND BLOOD DONOR PAGE



- Here the person in need of blood can search the blood donor with the required blood group.
- Also, the request of the user will be shown in the live feed automatically.

## SEARCH NEAREST HOSPITALS



- This is the page to search nearest hospitals.

## HOME PAGE



- Here we can see recent blood requests and also can post a blood request as well.
- Donor can directly contact the receiver as contact number is provided in this live feed.

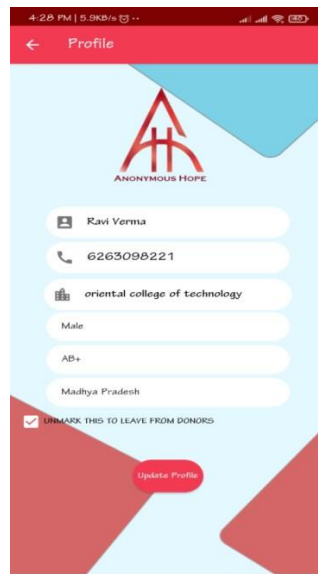


## STATISTICS PAGE



- Here the donor can see the number of days after which he can donate blood again.
- Also he can see the number of donations and the date when he made donation.

## PROFILE PAGE



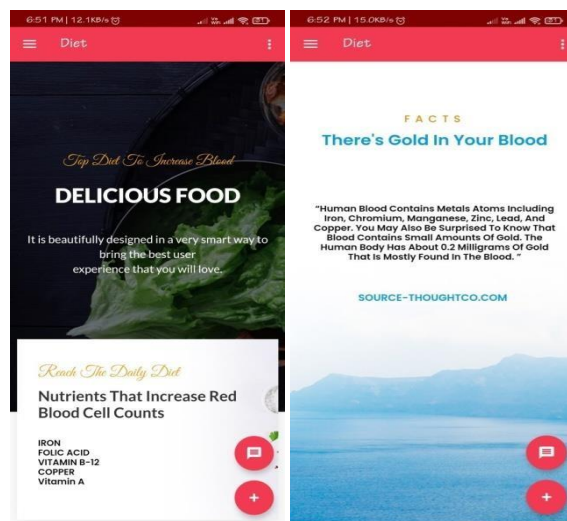
- Here the user can see his information and also update the same.

## ABOUT US



- Here you can find the brief summary/overview of what our app does.
- Here you can find about the services we provide.

## DIET PAGE



- Here the user can find the right diet to maintain a healthy blood.
- You can also find the right diet you should have before and after donating blood.
- Also the user can find some interesting facts regarding blood.

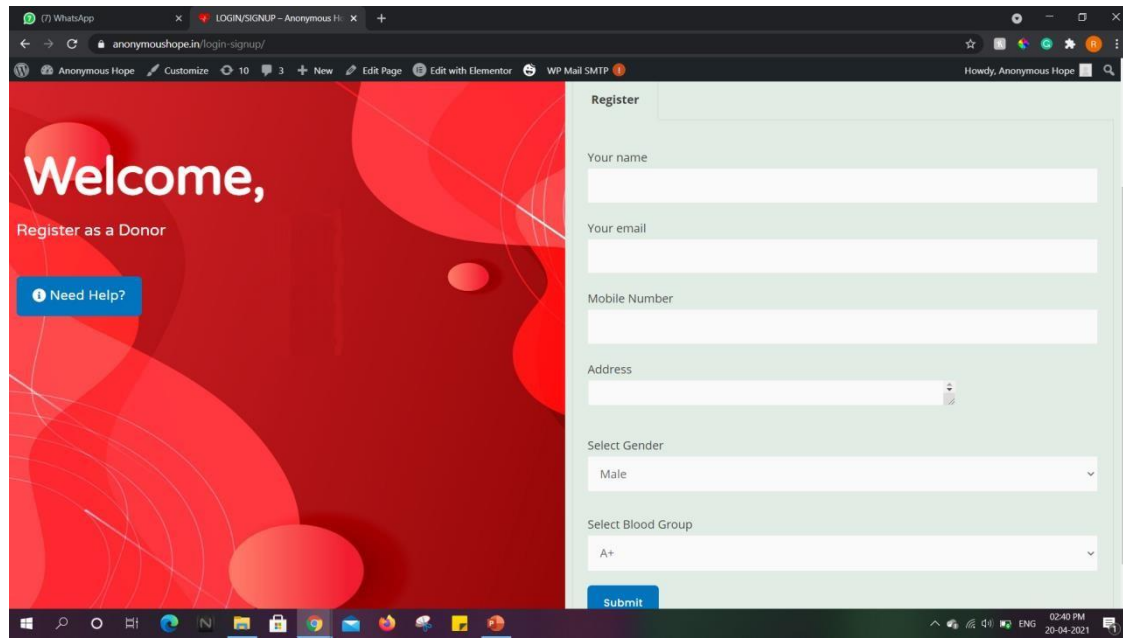
## COVID-19 LIVE TRACKER



- In this COVID-19 live tracker you will get all the live updates about COVID-19 all over the world.
- You will get to know –
  - Total cases
  - Total active cases
  - Total deaths
  - New cases
  - Present day cases
  - Daily death records
  - Total tests performed
  - Critical case

## FOR WEBSITE

## REGISTER PAGE



- Here the donor can register himself so that when someone is in need of blood can find the donor.
- The user can only donate if the mark as donor is checked.

Note: Hospitals can also act as donors or receivers.

## NAVIGATION BAR



- As soon as the user logs into our app he can find all the options in our navigation bar.

## FIND BLOOD DONOR PAGE

Home Volunteers Live Feed Find Blood ▾ Donate Blood More ▾ Diet About Us f t i

**FIND BLOOD DONOR**

FILL THE FORM BELOW

Your name

Your Mobile Number

Your email

Address

Select Gender  
Male ▾

Blood Group  
A+ ▾

Submit

- Here the person in need of blood can search the blood donor with the required blood group.
- Also, the request of the user will be shown in the live feed automatically.

## How Blood Donation Help



- Here the person can find the benefits of donating blood

## HOME PAGE

Home Volunteers Live Feed Find Blood Donate Blood More Diet About Us

### Contact Blood Donors

your-name	your-email	MobileNumber	Address	Gender	BloodGroup	submit_ip	submit_time
Pooni	poon1997singh@gmail.com	7967228546	Patel Nagar, Bhopal	Male	B+	157.34.249.32	2021-04-17 09:51:51
RAVI VERMA	ravi@gmail.com	6267834799	Gopal Nagar, Bhopal	Male	B+	157.34.249.32	2021-04-17 09:35:02
Ritika Rasinghani	ritikarasinghani09@gmail.com	9754745689	Gopal Nagar, Bhopal	Female	B+	157.34.249.32	2021-04-17 09:35:01

### Request For Blood Donors

your-name	MobileNumber	your-email	Address	Gender	BloodGroup	submit_time
Tanishka Rasinghani	7967737963	nikhilrasinghani15@gmail.com	3 'A' Gopal Nagar, ne...	Female	B+	2021-04-18 06:41:09
Nikhil Rasinghani	9754680896	nikhilrasinghani15@gmail.com	Gopal Nagar, Khajuri Kalan Road	Male	B+	2021-04-18 06:37:28
Ritika Rasinghani	9754680896	ritikarasinghani09@gmail.com	Gopal Nagar, Khajuri Kalan Road	Female	B+	2021-04-18 06:31:11
Ritika Rasinghani	9754680896	ritikarasinghani09@gmail.com	Gopal Nagar, Khajuri Kalan Road	Female	B+	2021-04-17 10:26:42

Anonymous Hope Company Legal Let's Connect!

- Here we can see recent blood requests and also can post a blood request as well.
- Donor can directly contact the receiver as contact number is provided in this live feed.

## ABOUT US

Home Volunteers Live Feed Find Blood Donate Blood More Diet About Us

## About Us

What We Do At Anonymous Hope

BEFORE WE START

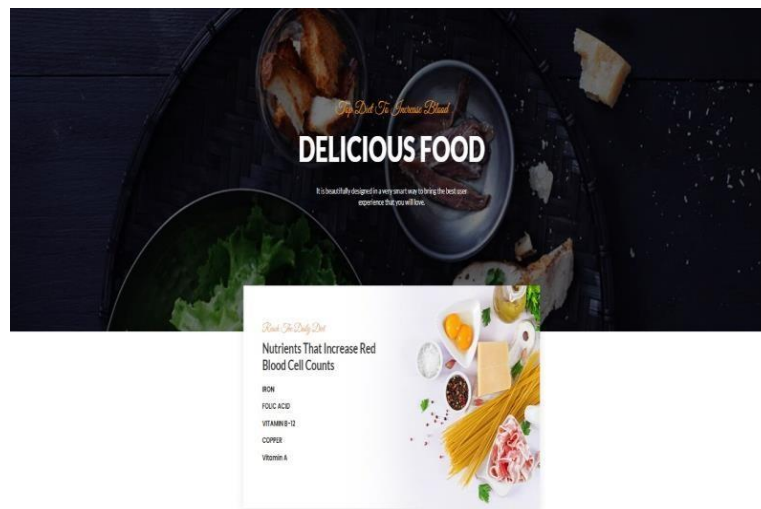
What Is This All About?

We solve the problem of blood/plasma emergencies by connecting blood/plasma donors, hospitals and blood banks directly with people in the need of blood/plasma.

Anonymous Hope

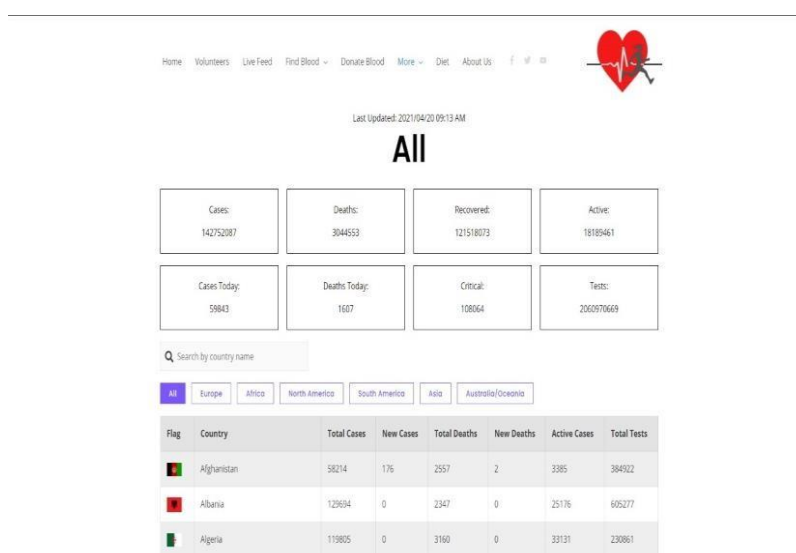
- Here you can find the brief summary/overview of what our app does.
- Here you can find about the services we provide.

## DIET PAGE



- Here the user can find the right diet to maintain a healthy blood.
- You can also find the right diet you should have before and after donating blood.
- Also the user can find some interesting facts regarding blood.

## COVID-19 LIVE TRACKER



- In this COVID-19 live tracker you will get all the live updates about COVID-19 all over the world.

## OUTPUT REPORT

### Login form

**Table.2**

SI. No.	Test Case	Excepted result	Test Result
1.	Check the field available	The login contains all required fields	Success
2.	Check Buttons	Page contains login button	Success
3.	Check for empty validation	Shows please enter user name and password	Success
4.	Check for Empty user name	Shows this field is required	Success
5.	Check for empty password	Shows this field is required	Success
6.	Enter valid username and password and click on login	display home screen	Success
7.	Enter invalid	You entered wrong credentials and back to the login form	Success

### Register Form

**Table.3**

SI. No.	Test Case	Excepted result	Test Result
1.	Check the field available	The Register contains all required fields	Success
2.	Check Buttons	Page contains Register Button	Success
3.	Check for empty validation	Shows please fill all the fields	Success
4.	Fill all section correctly and click on login	display home screen	Success
5.	Enter invalid	You entered wrong credentials and back to the Register page	Success



## Donor Module

**Table.4**

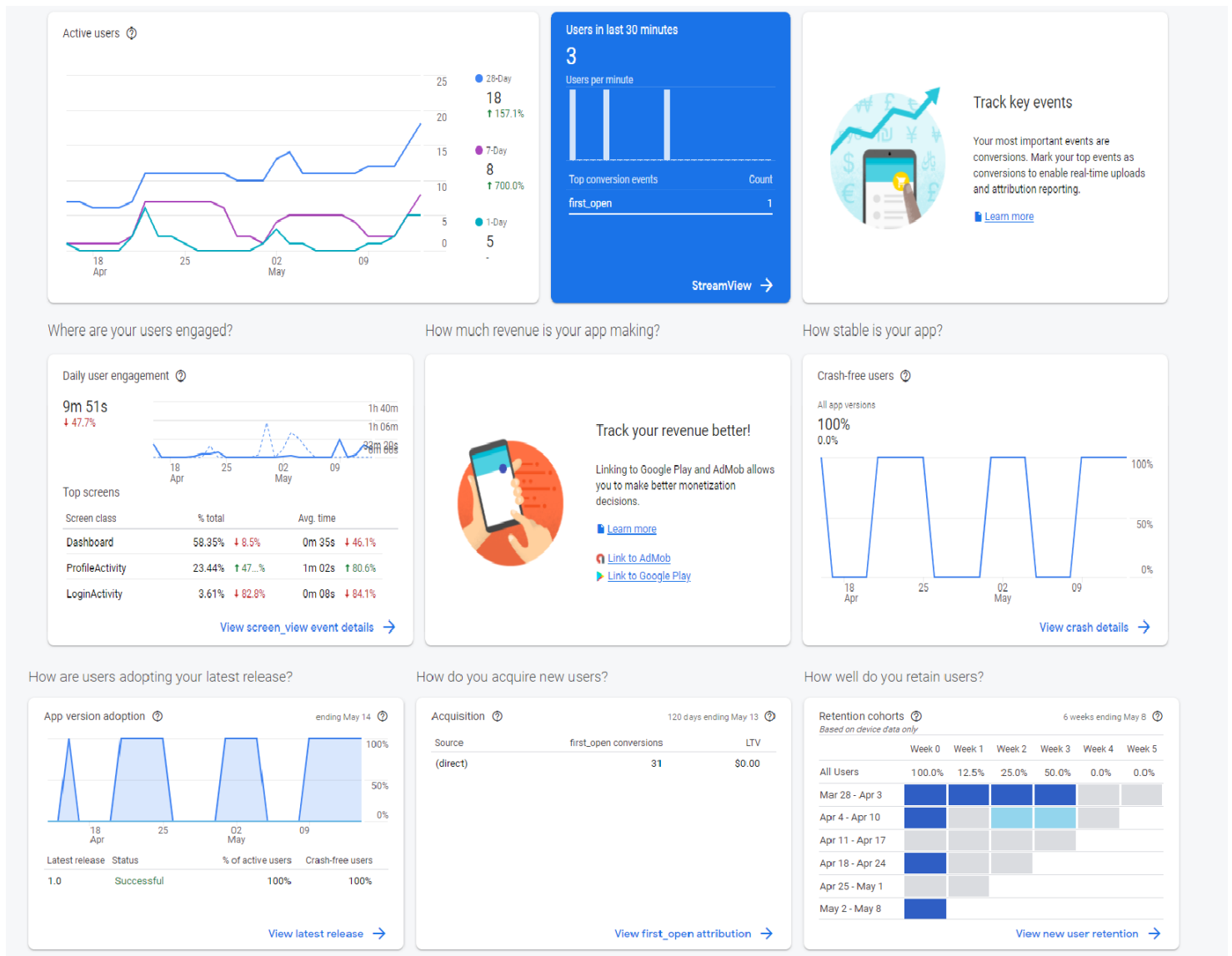
SI. No.	Test Case	Excepted result	Test Result
1.	On the click of login	Display home page	Success
2.	On the click of Navigation Bar	Display all the Options	Success
3.	On the click of Home	Display all requests	Success
4.	On the click of Profile	Display all Details of Profile	Success
5.	On the click of Statistics	Go to the Statistics page and manage it	Success
6.	On the click of Find nearest Hospitals	Display all Hospitals near by you	Success
7.	On the click of Covid Live Tracker	Display corona stats (Global & Local)	Success
8.	On the click of chat floating button	Open Chatbot	Success
9	Click on menu bar	Display menu option	Success
10.	Click on Diet	Display diet page	Success
11.	Click on About us	Display about us page	Success
12.	Click on call image	Directly call the Receiver	Success
13.	Click on message image	Send message of Receiver	Success
14.	Click on logout	Display Login page	Success

## Receiver Module

**Table.5**

SI. No.	Test Case	Excepted result	Test Result
1.	On the click of login	Display home page	Success
2.	On the click of Navigation Bar	Display all the Options	Success
3.	On the click of Home	Display all requests	Success
4.	On the click of Profile	Display all Details of Profile	Success
5.	On the click of Find Blood Donor	Display search donor page	Success
6.	On the click of Find nearest Hospitals	Display all Hospitals nearby you	Success
7.	On the click of Covid Live Tracker	Display corona stats (Global & Local)	Success

8.	On the click of chat floating button	Open Chatbot	Success
9	Click on menu bar	Display menu option	Success
10.	Click on Diet	Display diet page	Success
11.	Click on About us	Display about us page	Success
12.	Click on call image	Directly call the Donor	Success
13.	Click on message image	Send message of Donor	Success
14.	Click on logout	Display Login page	Success



# Retention cohorts						
# Start date: 20210328						
# End date: 20210508						
Date	Week 0	Week 1	Week 2	Week 3	Week 4	Week 5
Mar 28 - A	1	1	1	1	0	0
Apr 4 - Ap	3	0	1	1	0	-1
Apr 11 - A	0	0	0	0	-1	-1
Apr 18 - A	4	0	0	-1	-1	-1
Apr 25 - M	0	0	-1	-1	-1	-1
May 2 - M	4	-1	-1	-1	-1	-1

Retention cohorts

AnonymousHope

Go to docs

Analytics | Events

Add Filter

Last 28 days Apr 16 - May 13, 2021

Compare: Mar 19 - Apr 15, 2021

You can now create and manage custom dimensions and metrics in Custom definitions.

Dismiss

Try it now

Recommended events

sign\_up Recommended Event (General)

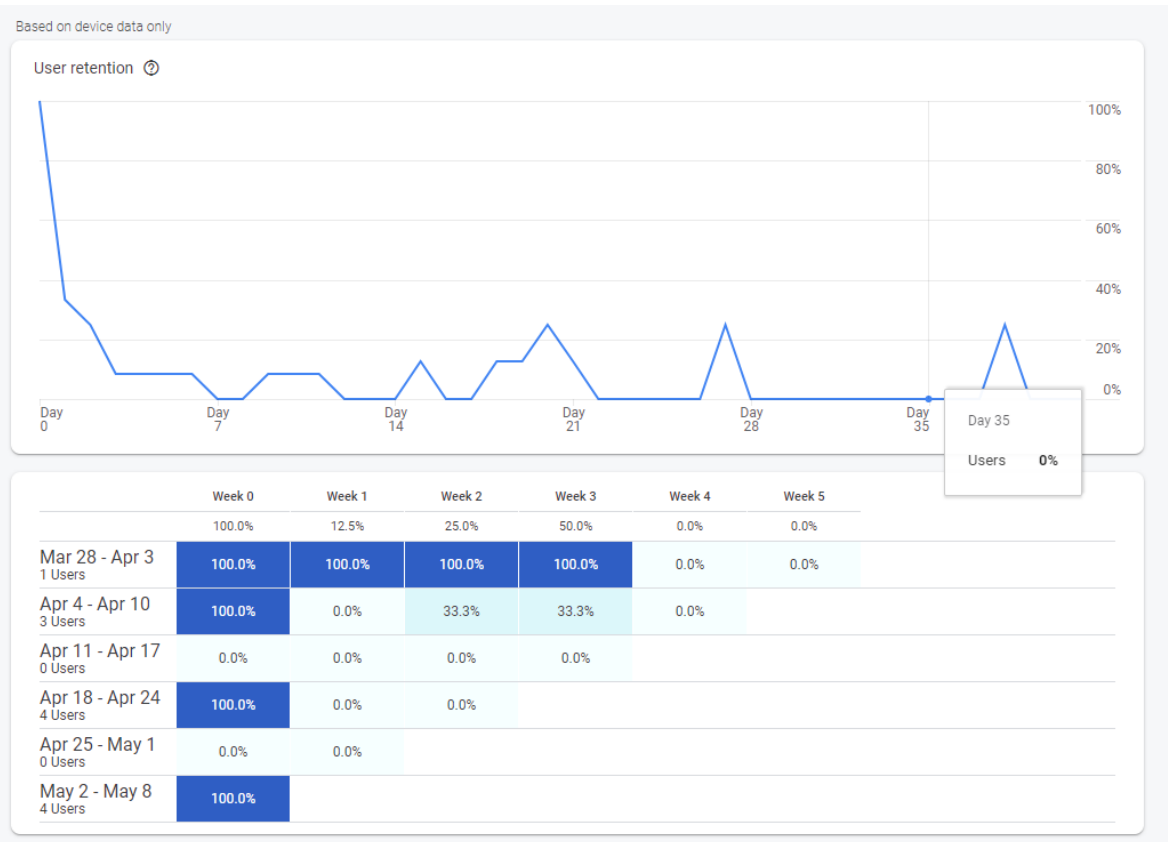
login Recommended Event (General)

share Recommended Event (General)

Existing events

Event name	Count	% change	Users	% change	Mark as conversion
app_clear_data	1	↓ 85.7%	1	↓ 66.7%	<input type="checkbox"/>
app_remove	10	↑ 150.0%	10	↑ 150.0%	<input type="checkbox"/>
first_open	15	↑ 275.0%	15	↑ 275.0%	<input type="checkbox"/>
notification_dismiss	8	-	3	-	<input type="checkbox"/>
notification_foreground	3	-	2	-	<input type="checkbox"/>
notification_open	2	-	2	-	<input type="checkbox"/>
notification_receive	18	-	6	-	<input type="checkbox"/>
screen_view	680	↑ 24.5%	18	↑ 157.1%	<input type="checkbox"/>
session_start	55	↑ 66.7%	18	↑ 200.0%	<input type="checkbox"/>

Analytics



## User Reaction

4	# Active users				# Crash-free users	
5	# Start date: 20210417				# Start date: 20210417	
6	# End date: 20210514				# End date: 20210514	
7	Day	28-Day	7-Day	1-Day	Day	Total users
8	0	7	1	0	0	0
9	1	6	1	0	1	0
10	2	6	1	0	2	0
11	3	6	1	0	3	0
12	4	7	2	2	4	1
13	5	11	7	6	5	1
14	6	11	7	2	6	1
15	7	11	7	2	7	1
16	8	11	7	1	8	1
17	9	11	7	0	9	0
18	10	11	7	0	10	0
19	11	11	6	0	11	0
20	12	10	2	0	12	0
21	13	10	2	0	13	0
22	14	10	1	1	14	1
23	15	13	4	3	15	1
24	16	14	5	1	16	1
25	17	11	5	1	17	1
26	18	11	5	0	18	0
27	19	11	5	0	19	0
28	20	11	5	0	20	0
29	21	11	4	0	21	0
30	22	12	2	1	22	1
31	23	12	2	1	23	1
32	24	12	2	2	24	1
33	25	15	5	5	25	1
34	26	18	8	5	26	1
35	27	25	15	8	27	1

## Active users and Crash Analysis

# Daily user engagement		
# Start date: 20210417		
# End date: 20210514		
Day	Average engagement time	
0	0	
1	0	
2	0	
3	0	
4	55.5	
5	411.5	
6	390	
7	573.5	
8	40	
9	0	
10	0	
11	0	
12	0	
13	0	
14	28	
15	130	
16	149	
17	30	
18	0	
19	0	
20	0	
21	0	
22	1932	
23	10	
24	254	
25	1308.8	
26	901.6	
27	288.375	

## User time Engagement

# Start date: 20210417			
# End date: 20210514			
Page path	User enga	Screen views	
Dashboard	0.627547	30.93882	
ProfileAct	0.179354	42.22472	
PostActivi	0.087959	28.79688	
LoginActiv	0.046676	6.653061	
HelpActiv	0.029256	21.13793	
HiddenAc	0.011788	9.5	
AffectedC	0.009975	5.358974	
MainActiv	0.004486	31.33333	
RestorePa	0.002434	12.75	
SplashAct	0.000477	5	
Recaptcha	4.77E-05	0.142857	
SignInHub	0	0	

## View Screen report

# Start date: 20210417			
# End date: 20210514			
Device model	Users		
Redmi Note 7	7		
Redmi K20	5		
CPH1803	4		
1806	2		
Z60	2		
(not set)	1		
CPH1809	1		
M2004J19	1		
Nexus 5X	1		
Redmi Y2	1		
# Start date: 20210417			
# End date: 20210514			
OS with version	Users		
Android 10	15		
Android 8	5		
Android 7	2		
Android 6	1		
Android 6	1		
Android 9	1		

## Testing devices

## **LIMITATIONS**

- With the minimum requirement of SDK value of 21 the app can run in any android device.
- In order to access the full feature of this project the user should give access to all the necessary permission and should be connected to internet.
- The database is separate for application and website.

## **FUTURE ENHANCEMENT**

- In future, checking the authenticity of the benefactor must be possible with some more confirmed process.
- The database executive for this android application depends on the Firebase Parse server which can be taken into consideration by some best database servers.
- The user interface can be more user friendly.



## **CONCLUSION**

Anonymous Hope is developed out of a need to make finding blood supplies or a willing donor on time and using lesser time in searching for either of the two.

This project should be made available to everyone because it will help the search of blood supplies doing emergency cases faster, in doing so helps to avoid health complication and also avoid possible deaths due to delays in search of blood.

## **BIBLIOGRAPHY**

<https://developer.android.com/>

<https://firebase.google.com/docs/>

<https://stackoverflow.com/>

<https://medium.com/androiddevelopers>

<https://wordpress.com/>

## **APPENDIX – I (SOURCE CODE)**

```
package com.anonymushope.activities;

import android.Manifest;
import android.app.Activity;
import android.app.ProgressDialog;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.os.Bundle;

import android.util.Log;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;
import androidx.core.app.ActivityCompat;
import androidx.core.content.ContextCompat;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import com.anonymushope.R;
import com.anonymushope.fragments.AboutUs;
import com.anonymushope.fragments.AchievementsView;
import com.anonymushope.fragments.BloodInfo;
import com.anonymushope.fragments.HomeView;
import com.anonymushope.fragments.NearByHospitalActivity;
import com.anonymushope.fragments.SearchDonorFragment;
import com.anonymushope.viewmodels.UserData;
import com.google.android.material.floatingactionbutton.FloatingActionButton;
import com.google.android.material.navigation.NavigationView;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.Query;
import com.google.firebase.database.ValueEventListener;

public class Dashboard extends AppCompatActivity
    implements NavigationView.OnNavigationItemSelectedListener {
```

```

private FirebaseAuth mAuth;
private TextView getUsername;
private TextView getEmail;
private FirebaseDatabase user_db;
private FirebaseUser cur_user;
private DatabaseReference userdb_ref;

private ProgressDialog pd;
String name = "";
Query singleuser;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_dashboard);

    getEmail = findViewById(R.id.UserEmailView);
    getUsername = findViewById(R.id.UserNameView);
    Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
    FloatingActionButton fab = (FloatingActionButton) findViewById(R.id.btnFloat);
    FloatingActionButton fabChat = (FloatingActionButton) findViewById(R.id.btnFloat1);

    NavigationView navigationView = (NavigationView) findViewById(R.id.nav_view);
    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
    View header = navigationView.getHeaderView(0);

    getEmail = (TextView) header.findViewById(R.id.UserEmailView);
    getUsername = (TextView) header.findViewById(R.id.UserNameView);
    navigationView.setNavigationItemSelectedListener(this);

    pd = new ProgressDialog(this);
    pd.setMessage("Loading...");
    pd.setCancelable(true);
    pd.setCanceledOnTouchOutside(false);

    mAuth = FirebaseAuth.getInstance();
    user_db = FirebaseDatabase.getInstance();
    cur_user = mAuth.getCurrentUser();
    userdb_ref = user_db.getReference("users");

    if (ContextCompat.checkSelfPermission(this, Manifest.permission.CALL_PHONE) !=
        PackageManager.PERMISSION_GRANTED) {
        ActivityCompat.requestPermissions( this, new
            String[]{Manifest.permission.CALL_PHONE},2); }

```

```

if (ContextCompat.checkSelfPermission(this,
    Manifest.permission.SEND_SMS)
    != PackageManager.PERMISSION_GRANTED) {
    if (ActivityCompat.shouldShowRequestPermissionRationale(this,
        Manifest.permission.SEND_SMS)) {
    } else {
        ActivityCompat.requestPermissions(this,
            new String[]{Manifest.permission.SEND_SMS},
            2);
    }
}

```

```

setSupportActionBar(toolbar);

```

```

fab.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        startActivity(new Intent(Dashboard.this, PostActivity.class));
    }
});
fabChat.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        startActivity(new Intent(Dashboard.this, HelpActivity.class));
    }
});

```

```

ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(
    this, drawer, toolbar, R.string.navigation_drawer_open,
    R.string.navigation_drawer_close);
drawer.addDrawerListener(toggle);
toggle.syncState();

```

```

singleuser = userdb_ref.child(cur_user.getUid());
setUserData();

```

```

if(savedInstanceState == null)
{
    getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
HomeView()).commit();
    navigationView.getMenu().getItem(0).setChecked(true);

}

}

public void setUserData(){
    singleuser.addListenerForSingleValueEvent(new ValueEventListener() {

        @Override
        public void onDataChange(@NonNull DataSnapshot dataSnapshot) {
            pd.show();
            name = dataSnapshot.getValue(UserData.class).getName();
            if (name!=null){
                getUsername.setText(name);
                getEmail.setText(cur_user.getEmail());
                pd.dismiss();

            }

        }

        @Override
        public void onCancelled(@NonNull DatabaseError databaseError) {
            Log.d("User", databaseError.getMessage());

        }
    });
}

@Override
public void onBackPressed() {
    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
    if (drawer.isDrawerOpen(
        GravityCompat.START)) {
        drawer.closeDrawer(GravityCompat.START);
    } else {
        super.onBackPressed();
    }
}
}

```

```

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.dashboard, menu);
    return true;
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so long
    // as you specify a parent activity in AndroidManifest.xml.
    int id = item.getItemId();

    if (id == R.id.donateinfo) {
        getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
BloodInfo()).commit();
    }
    if (id == R.id.devinfo) {
        getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
AboutUs()).commit();
    }

    return super.onOptionsItemSelected(item);
}

@SuppressWarnings("StatementWithEmptyBody")
@Override
public boolean onNavigationItemSelected(MenuItem item) {
    // Handle navigation view item clicks here.
    int id = item.getItemId();

    if (id == R.id.home) {
        getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
HomeView()).commit();

    } else if (id == R.id.userprofile) {
        startActivity(new Intent(getApplicationContext(), ProfileActivity.class));
    }
    else if (id == R.id.user_achiev) {
        getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
AchievementsView()).commit();
    }
}

```

```

else if (id == R.id.logout) {
    mAuth.signOut();
    Intent intent = new Intent(getApplicationContext(), LoginActivity.class);
    startActivity(intent);
}
else if (id == R.id.blood_storage){

    getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
SearchDonorFragment()).commit();

    } else if (id == R.id.nearby_hospital) {
        getSupportFragmentManager().beginTransaction().replace(R.id.fragmentcontainer, new
NearByHospitalActivity()).commit();

    }

    DrawerLayout drawer = (DrawerLayout) findViewById(R.id.drawer_layout);
    drawer.closeDrawer(GravityCompat.START);
    return true;
}

@Override
protected void onStart() {
    super.onStart();
    FirebaseUser currentUser = mAuth.getCurrentUser();
    if(currentUser == null)
    {
        Intent intent = new Intent(getApplicationContext(), LoginActivity.class);
        startActivity(intent);
        finish();
    }
}

@Override
protected void onResume() {
    super.onResume();
    FirebaseUser currentUser = mAuth.getCurrentUser();
    if(currentUser == null)
    {
        Intent intent = new Intent(getApplicationContext(), LoginActivity.class);
        startActivity(intent);
        finish();
    }
}
}

```