A Project Report On
"Blood Donation App"

(IT258- Software Group Project)

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Information Technology
Devang Patel Institute of Advance Technology and Research
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CERTIFICATE

This is to certify that the report entitled "**Blood donation app**" is a bonafide work carried out by **Ms. Riya Shah (20dit088)** under the guidance and supervision of **Prof. Ritiksha Modi** for the subject IT258-Software Group Project of 4th Semester of Bachelor of Technology in **DEPSTAR** at Faculty of Technology & Engineering – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of the candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred to the examiner.

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Blood donation app

Table of Contents

1. Project Definition

1. Our project is based on blood donation app.

2. This app is designed in such a way that it can suit the needs of all the blood bank requirements in our university.

3. It is an app on blood bank management system that is designed to gather blood from various sources & distribute it to the needy people who have high requirements for it.

2.Description:

❖ APP PURPOSE:

1. Our App is based on blood bank management system.

2. The purpose of this app is to help people donate blood and make requests easily.

3. We provide services regarding saving and send requests of blood and also donating blood.

4. Patients can get notified whenever any donor wants to donate blood.

5. Our app keeps our donors updated with ongoing seminars and blood donation camps organized in the campus.

Blood donation app

3.Software & Hardware Specifications:

➤ HARDWARE REQUIREMENTS:

• For App Development:

1. Laptop/PC

2. Minimum RAM: 4GB

3. Processor: i5(Laptop)

4. Minimum Storage:200GB

• For Running App:

1. Android Device

2. Minimum RAM: 3GB RAM

3. Minimum Storage: 4 GB

➤ SOFTWARE REQUIREMENTS:

• For App Development:

1. Android Studio

2. VS Code Studio

3. Flutter

4. Firebase

• For Running App:

1. OS Android

4.Major Functionality:
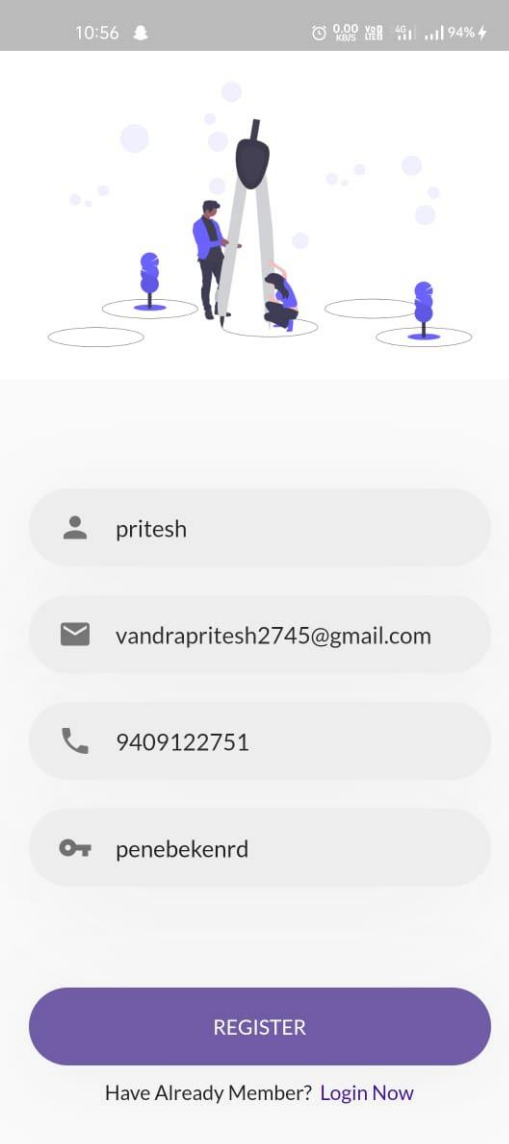
1. Android app: Drops of hope

2. Communication bridge between donors, blood drive organizers and the hospitals.

3. Blood donor information management system.

4. Support interconnection- Email/ notification alerts/ feedbacks.

5. We are contributing for the digital ecosystem by providing online services & making a patient's life easy.

6. Considering such elements as: access from any mobile devices & focusing more on e-commerce.

Blood donation app

5.System Flow Chart:

START

Registration page → Login page → SPLASH SCREEN

HOME PAGE ← ONBOARDING

SURVEY FORM | DASHBOARD | PROFILE

DONOR DETAILS

BLOOD REQUESTS

LOGOUT
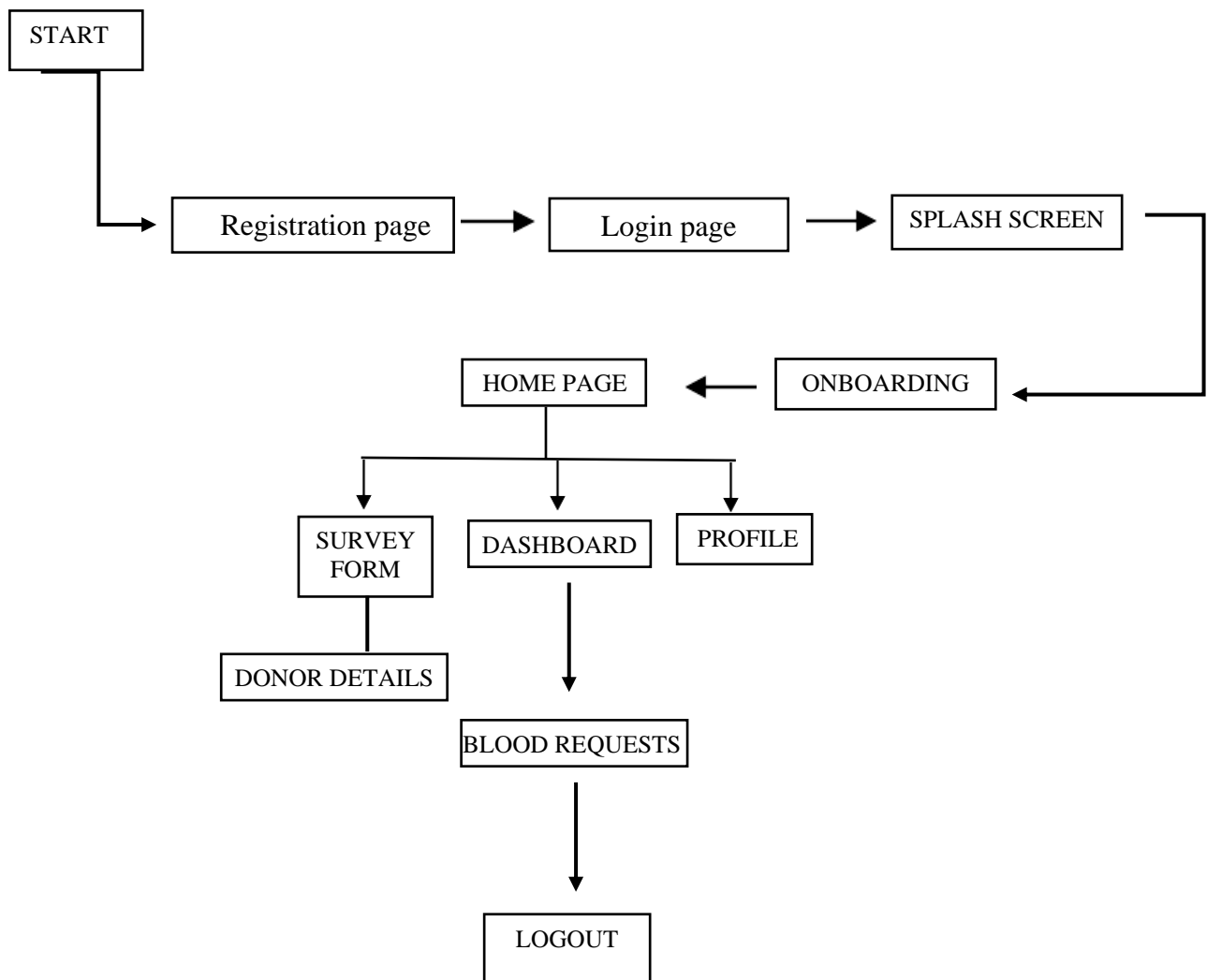
6.Screenshots of the Project:

Registration Page:

Figure: 2

Blood donation app

Login Page:

Figure: 3

Splash Screen:
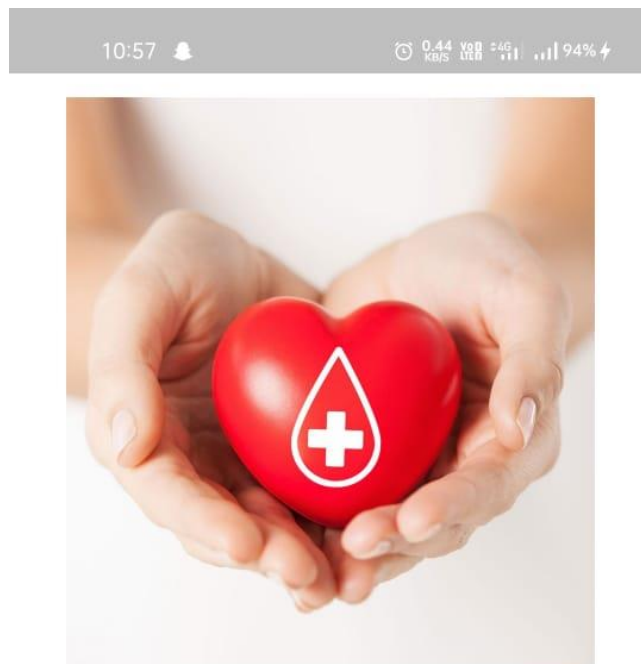
Figure: 4

Blood donation app

Onboarding Screens:

Figure: 5

Blood donation app

Live your life smarter
with us!

Digital platform for collecting donations
to be distributed to people in need we
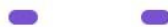build strength stability and self relience

Figure: 6

Blood donation app

Get a new experience of
imagination

Here we propose a new and efficient
way to overcome such outline.

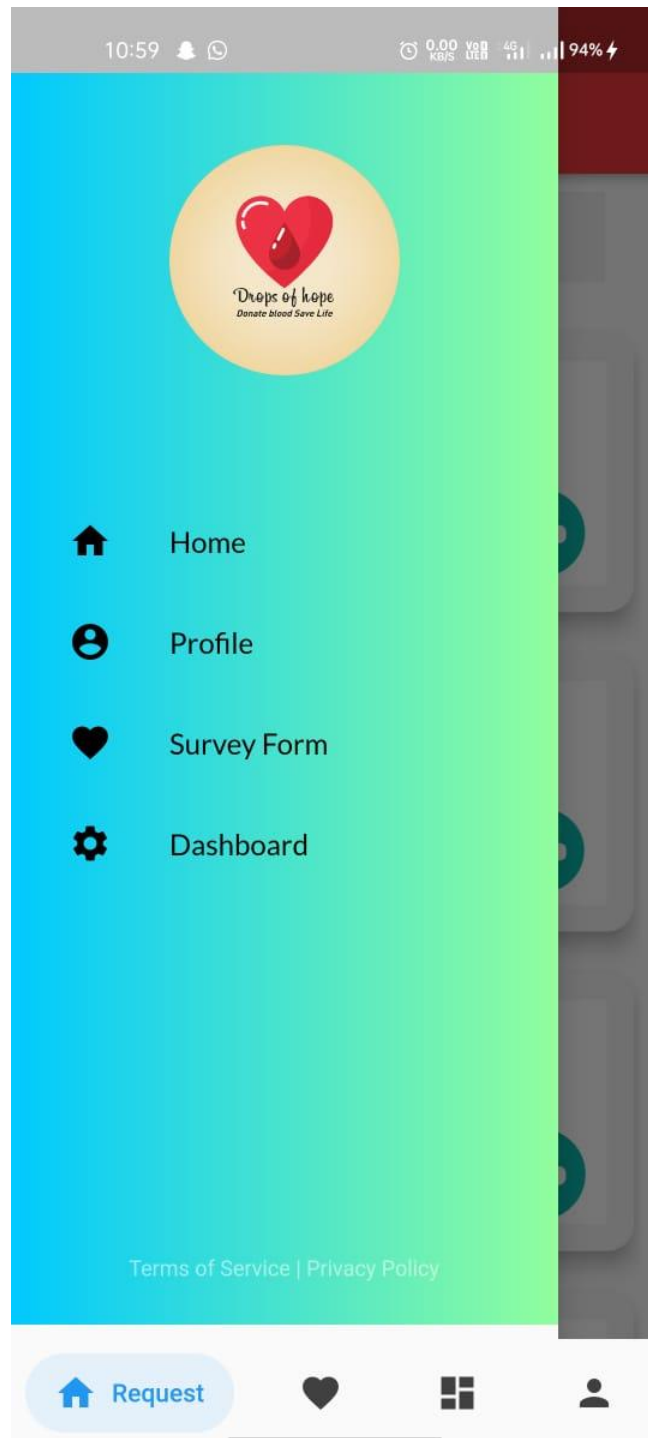Move to HomePage

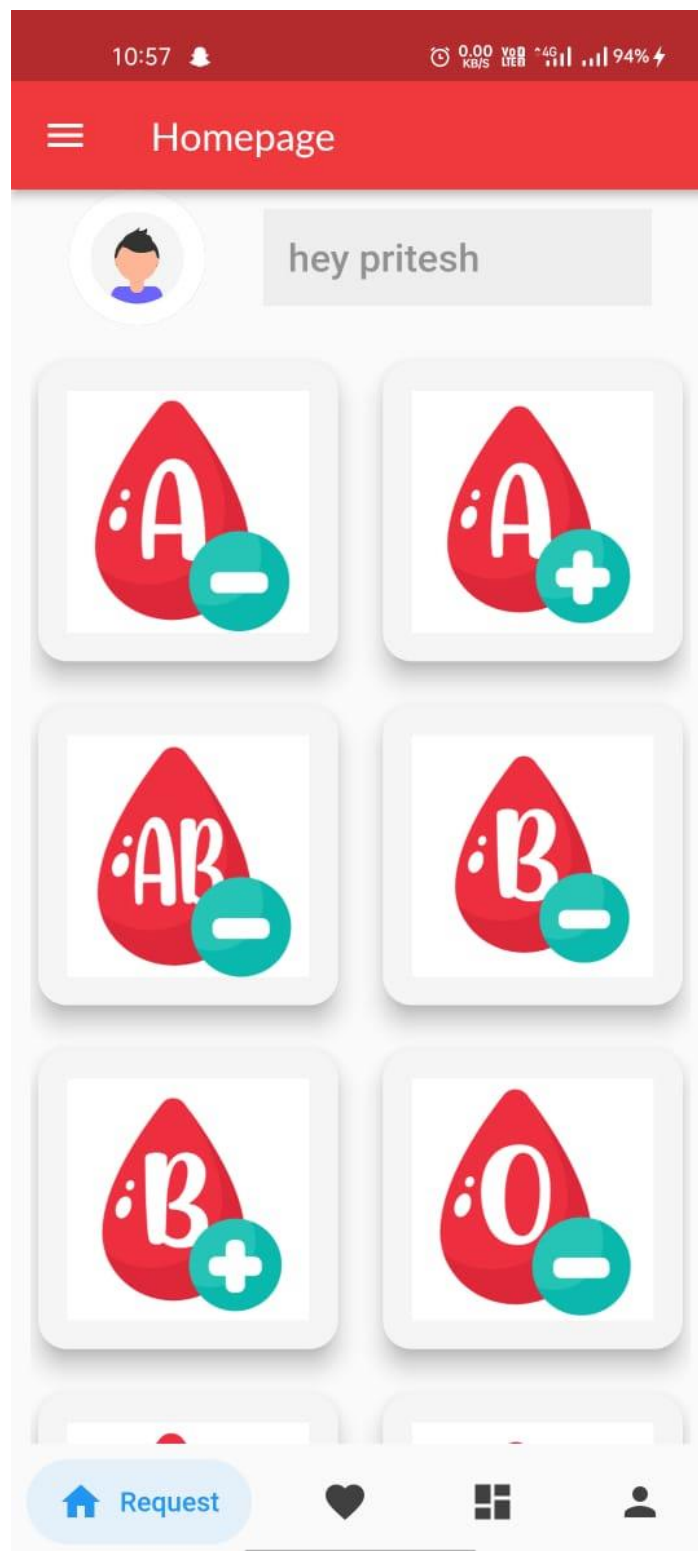Figure: 7

Blood donation app

Drawer:

Figure: 8

Blood donation app

Home page:

Figure: 9

Survey Form:

Figure: 10

Blood donation app

Dashboard:
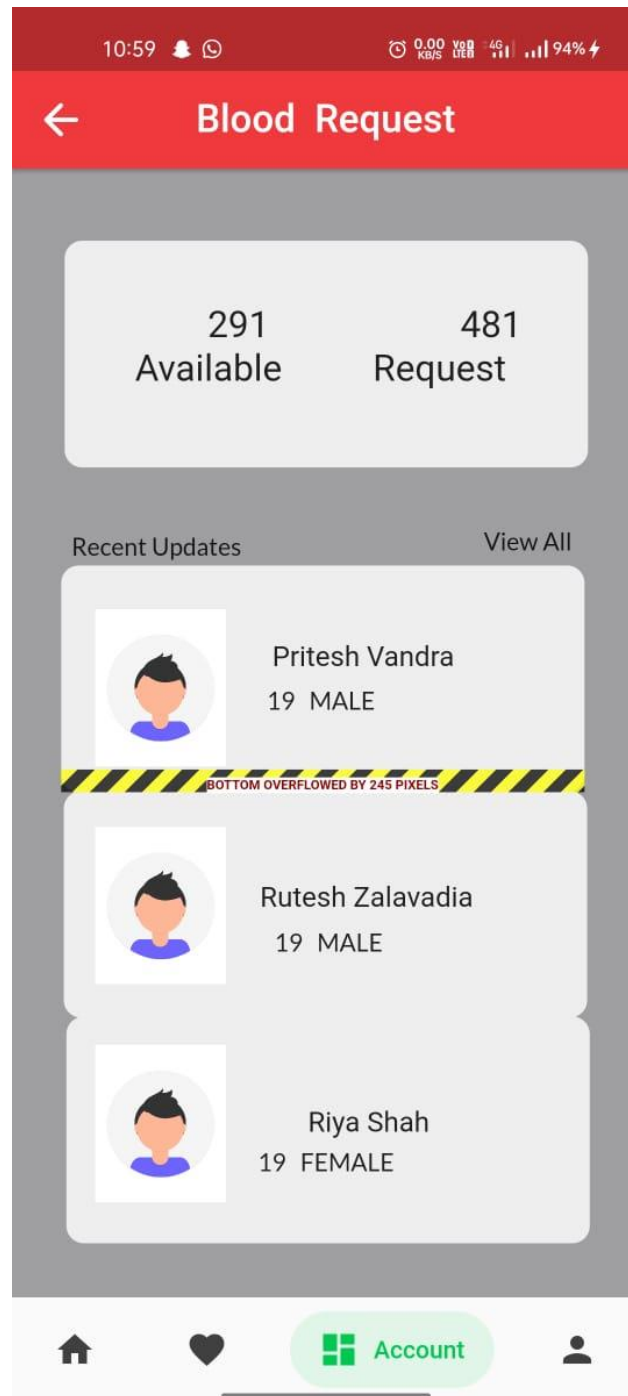

Figure: 11

Blood donation app

Profile page:

Figure: 12

Blood donation app
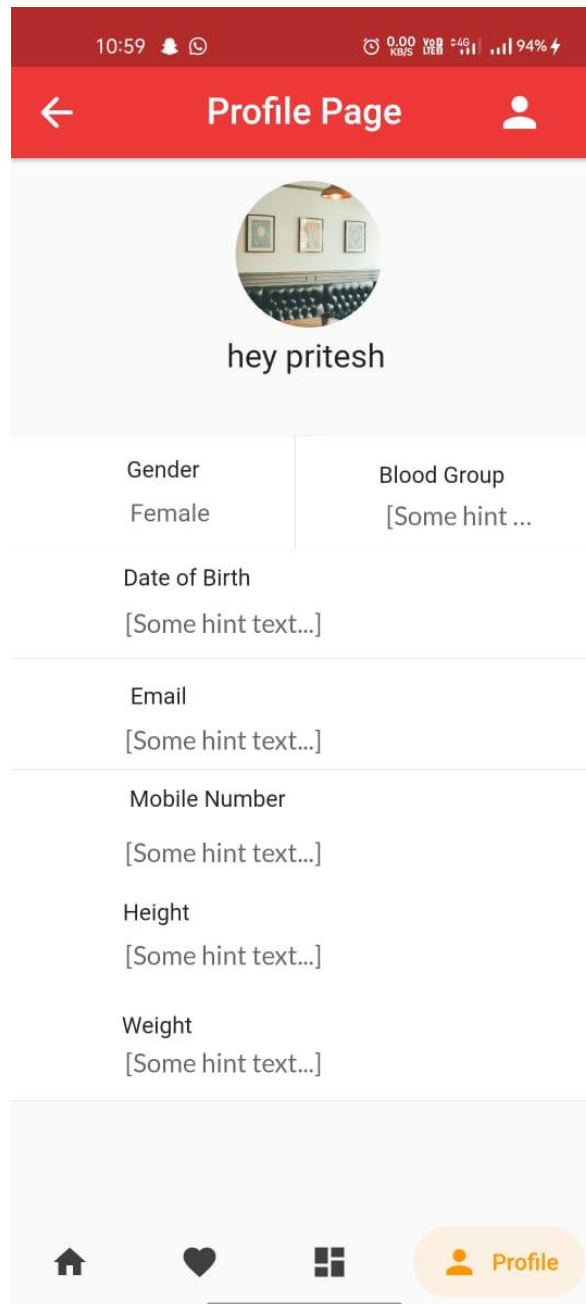
7. Limitations:

1. No other user involving functions other than registration of donors.

2. Doesn't support any interactive connections between different users.

3. No facility to book a date online for a blood donation.

8.Project Outcomes:

Technical Outcome:

1. We gain the knowledge of Html, flutter, dart.
2. We learned how to use cloud firebase as backend.

Non-Technical Outcome:

1. To manage a project work from home.

2. To work in a team.

3. Build good Communication skills.

4. To co-operate while working in team.

Blood donation app

9.Future Enhancement:

1. Feedback section should be added so that if in case any patient gets any difficulty in donating or requesting blood so that they can contact us via chat, ultimately saving time.
2. To provide an online payment method for billing so that it becomes easier to request or donate blood.
3. To provide a notification facility so that patients don't miss this blood donation event.

Conclusion:

Drops of Hope is the app made using flutter (cross platform android development) and using firebase for storing the data and manipulation of the same. It uses data of donor to register him/her in the blood bank and then patients can see them in the dashboard and can get requested blood easily.

10.References:

1. https://youtu.be/j-LOab_PzzU

2. https://youtu.be/EXp0gq9kGxI

3. https://www.youtube.com/watch?v=p1NPtRdvQBU

4. https://youtu.be/XgUOSS30OQk

5. https://youtu.be/VPvVD8t02U8