Project Title

BloodLink

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(Project Guide)

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Introduction

BloodLink A Lifesaving Blood Donation Eco-system. In times of emergency, access to blood can be a matter of life and death. BloodLink, a revolutionary platform, serves as a vital lifeline during such critical situations by seamlessly connecting individuals in need of blood with willing donors. This abstract provides a detailed overview of the key features and functionalities that make BloodLink an indispensable tool in the world of emergency blood donations.

1. Problem Statement

There are limited sites for finding donors. But this is an android app that can make the job much easier and can save time.

2. Objectives

- Emergency Blood Access
- Mobile Accessibility
- Security and Privacy
- Community Building
- Enhanced Healthcare
- Lifesaving Platform

3. Existing System

- Lack of Efficient Blood Matching
- Only Web Apps are present
- Limited Donor Visibility
- Communication Challenges
- Emergency Response Gaps
- Inefficient Data Management

4. Proposed System

- User-Friendly Mobile Application.
- Real-time Blood Matching.
- Secure and Confidential Communication.
- Community Building.
- Efficiency in Healthcare Response

5. Hardware Specifications

- Processor : 2.0 GHZ i3 11^{th} gen or above
- Hard Disk : 500 GB or above
- RAM : 4.00 GB or above
- Input Device : Standard Mouse and Keyboard
- Output Device : HD Monitor, Android Device

6. Software Specifications

- Operating System: windows 11
- Editor: Visual Studio, Android studio
- Programming Language: Dart
- Frontend: Material design, Dart
- Backend: Firebase
- Framework: Flutter

7. Modules

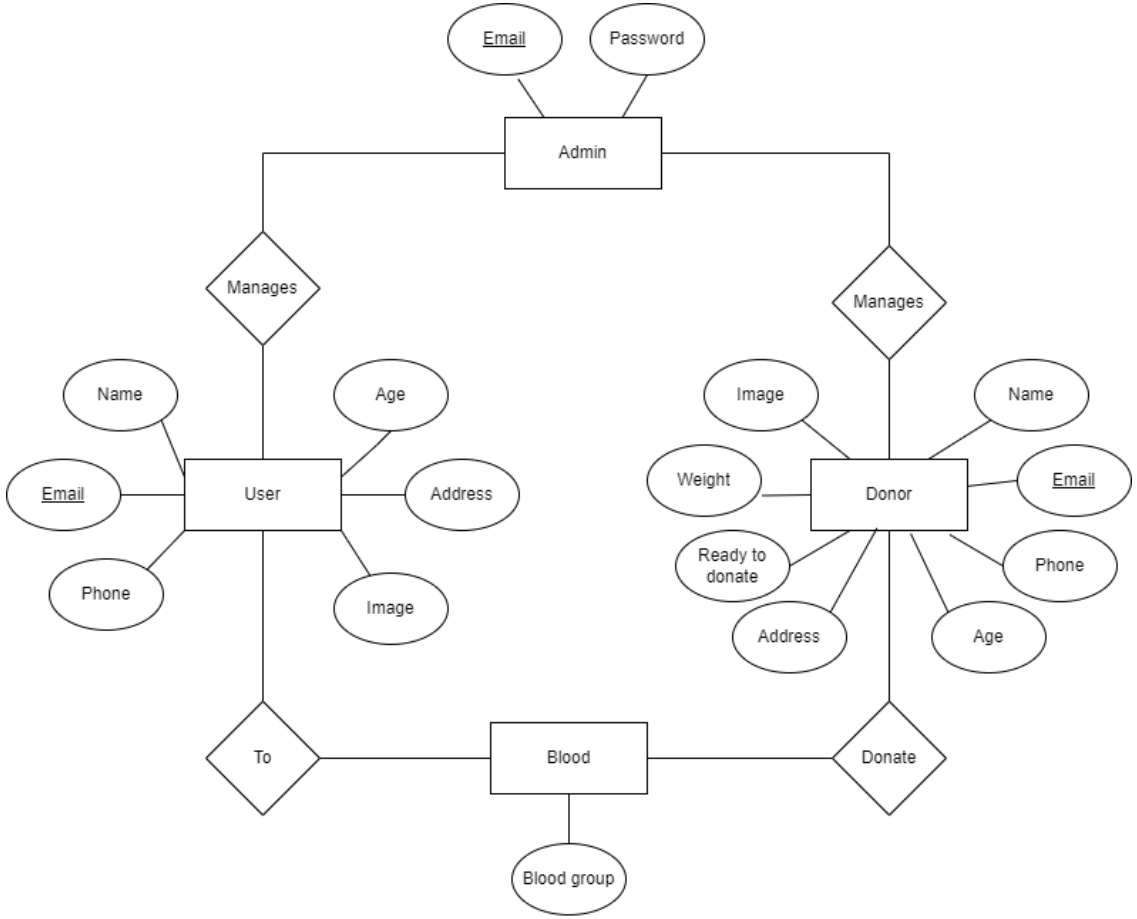
Admin

- Donor Management.
- Actions based on feedback and complaints.
- Delete the donors.
- Con communicate with donors.

Donors

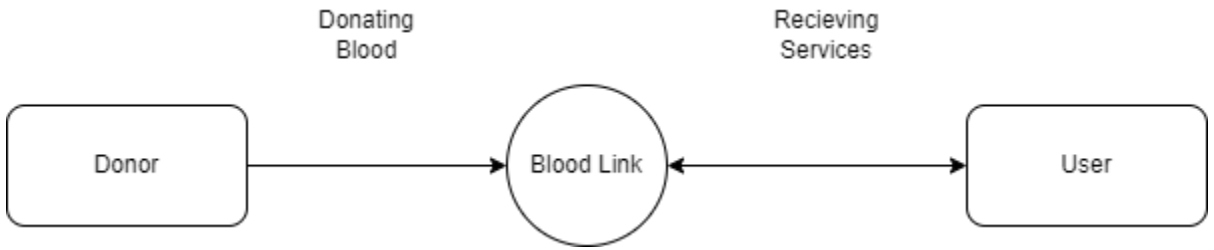
- Can search other donors.
- Donate blood.
- Update profile.
- Communication between donors.

8. ER Diagram

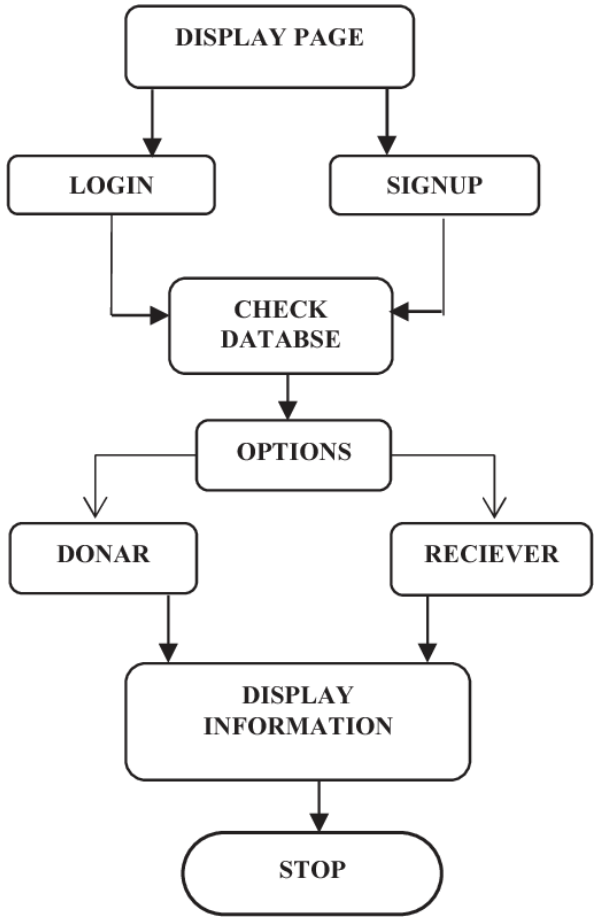

Email
Password
Admin
Manages
Manages
Name
Age
Email
User
Address
Phone
Image
Image
Name
Weight
Donor
Email
Ready to donate
Phone
Address
Age
To
Blood
Donate
Blood group

9. DFD(Data Flow Diagram)

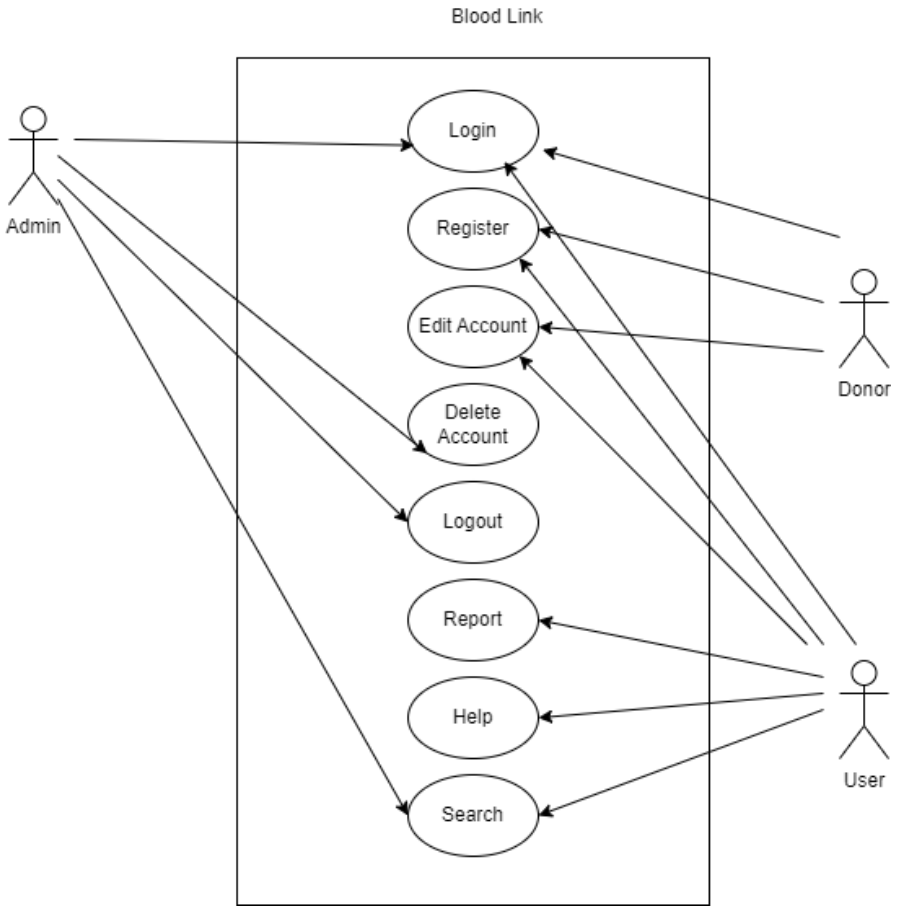
Level 0



Level 1

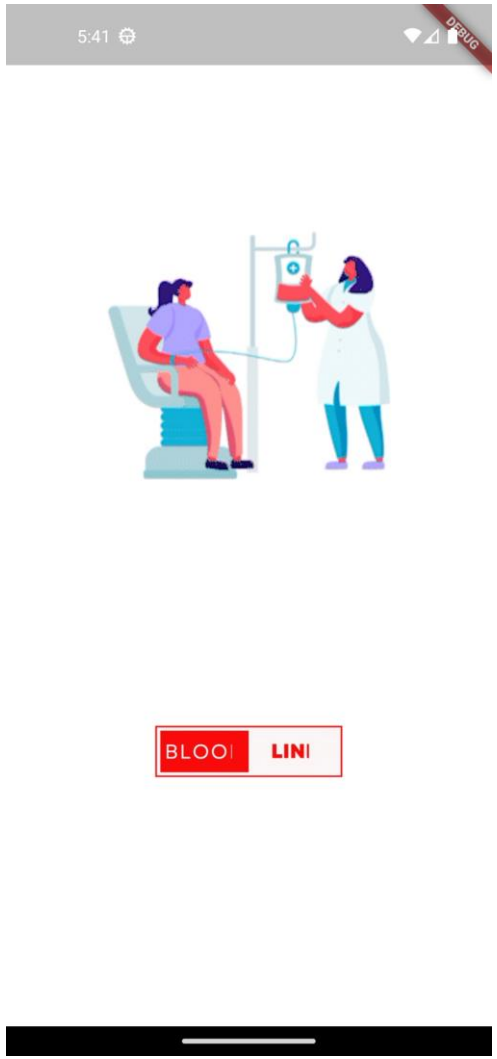

DISPLAY PAGE
LOGIN
SIGNUP
CHECK DATABSE
OPTIONS
DONAR
RECIEVER
DISPLAY INFORMATION
STOP

10. Use Case Diagram

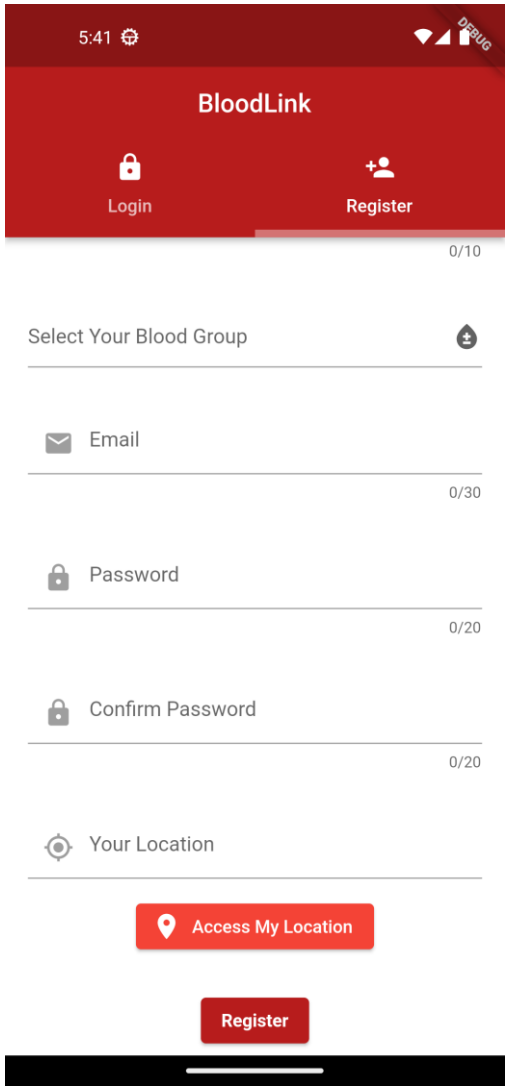


11. Work Done

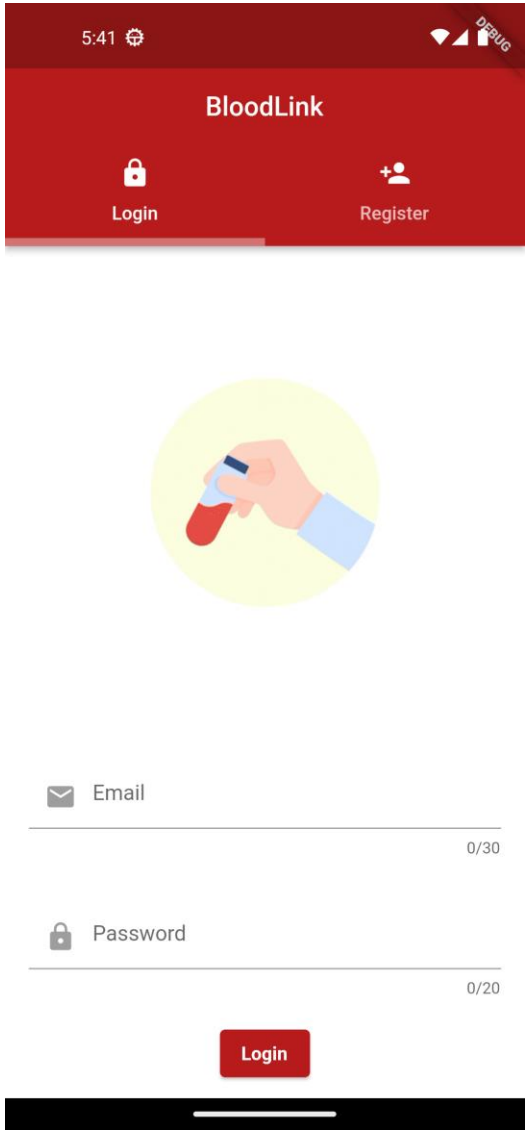
1. Splash Screen



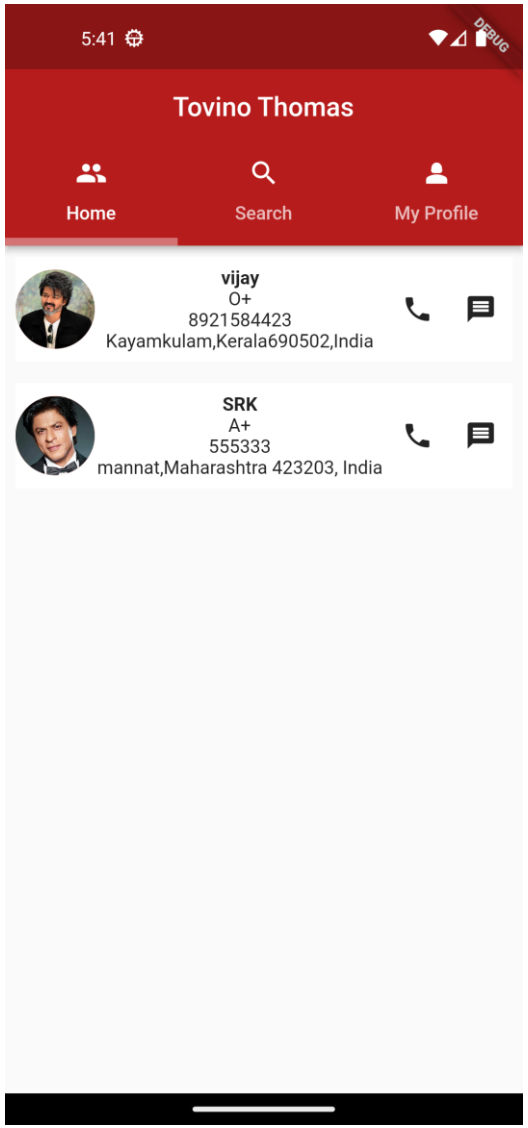
2. Register Screen



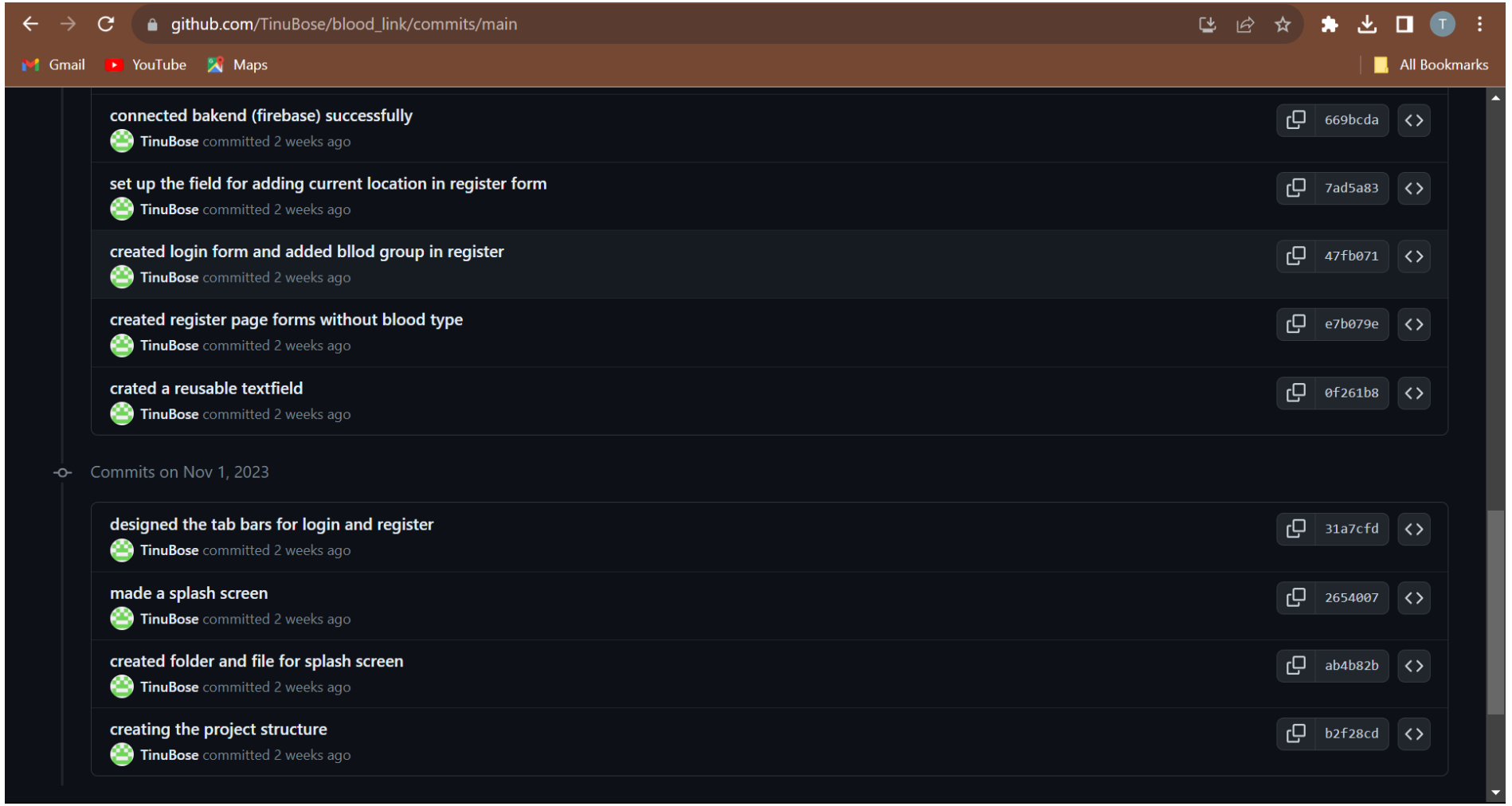
3. Login Screen

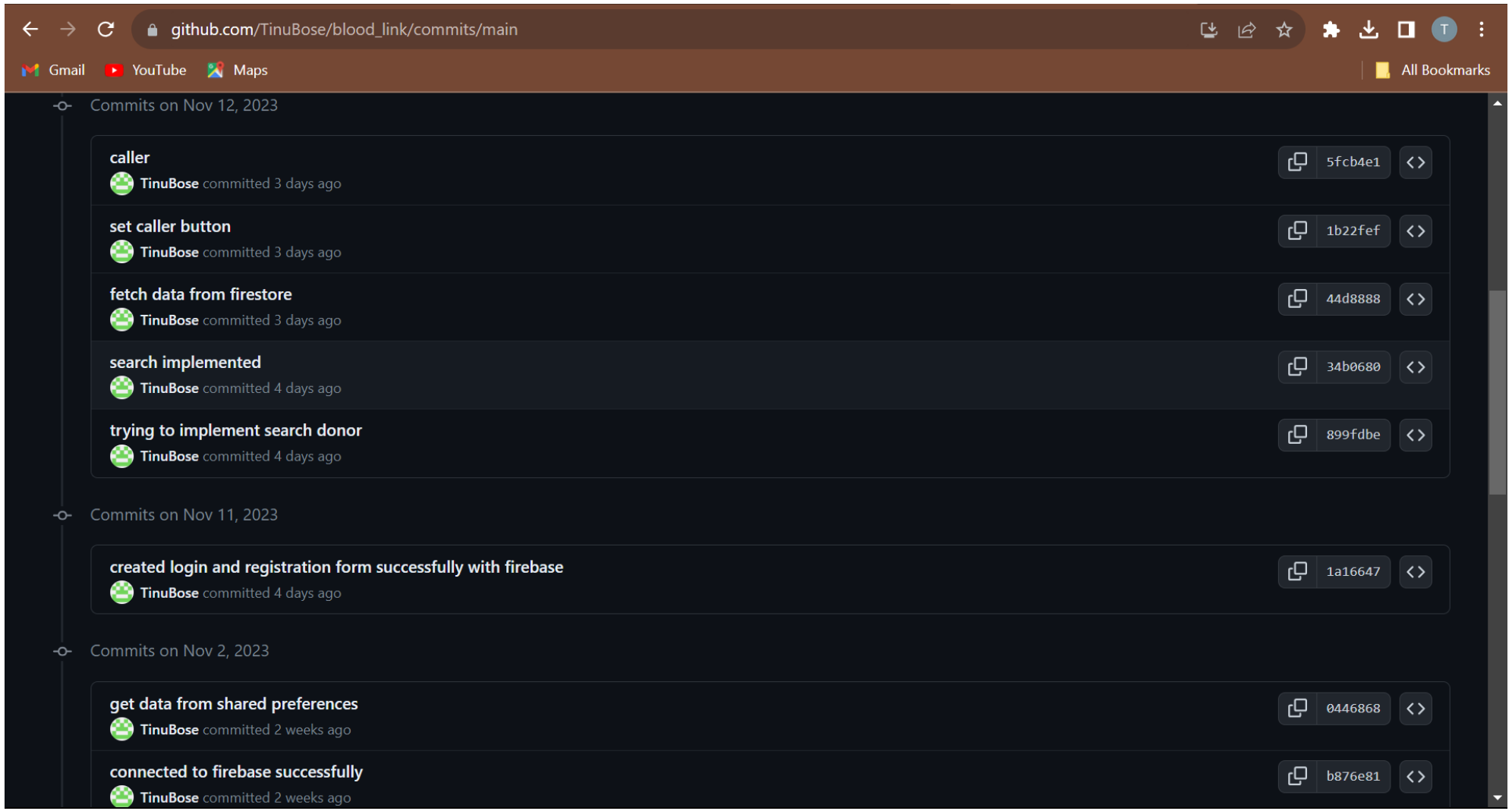


4. Home Screen



12. Git History




github.com/TinuBose/blood_link/commits/main
Gmail
YouTube
Maps
All Bookmarks
Commits on Nov 12, 2023
caller
TinuBose committed 3 days ago
5fcb4e1
set caller button
TinuBose committed 3 days ago
1b22fef
fetch data from firestore
TinuBose committed 3 days ago
44d8888
search implemented
TinuBose committed 4 days ago
34b0680
trying to implement search donor
TinuBose committed 4 days ago
899fdbe
Commits on Nov 11, 2023
created login and registration form successfully with firebase
TinuBose committed 4 days ago
1a16647
Commits on Nov 2, 2023
get data from shared preferences
TinuBose committed 2 weeks ago
0446868
connected to firebase successfully
TinuBose committed 2 weeks ago
b876e81

Conclusion

Blood Link is an android app developed in Dart as front end and uses Firebase as database. Blood Link A Lifesaving Blood Donation Eco-system. In times of emergency, access to blood can be a matter of life and death. The Admin can delete donors based on complaints and take actions based on feedback. Donors can update their profile and can depict they can donate or not. Blood Link, a revolutionary platform, serves as a vital lifeline during such critical situations by seamlessly connecting individuals in need of blood with willing donors. Its real-time matching, user-friendly mobile application, vast donor network, emergency alerts, and commitment to secure communication make it a life-saving platform during critical situations.

References

- https://pub.dev/
- https://github.com/
- https://firebase.google.com/