PROJECT REPORT ON

LIFE MATE

Submitted by

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Under the guidance of

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INTRODUCTION

➢ ABSTRACT

The application proposed here aims at improving to get blood requirement. Through this, a user-friendly interaction between admins and users can be make possible.

The project includes four modules: - Admin and User. This is intended to be create by comprising features such as Request for Blood, Blood Sources, Request Updates, Manage Users, Manage Requests, etc.

The front end of the application is planned to develop with Dart Programming language with flutter framework and the back end is set on Firebase as database.

➢ MODULES

The complete project is divided into two modules. And the modularization is based on the type of the users inthe system. The different modules based on the type of the users of the system are:

- ADMIN
- USER

USER

- Login
- Sign Up
- User Profile
- Register
- History
- User Account
- Request Updates
- Blood Source

ADMIN

- Login
- Admin Profile
- Manage Requests
- Manage Users
- History
- Admin Account

CONCEPTUAL MODELS

➢ REQUIREMENT MODELING DATA FLOW DIAGRAM

Data Flow Diagram (DFD) is used to define the flow of the system and its resources such as information. Data flow diagrams are the way of expressing system requirements in a graphical manner. DFD represents one of the most ingenious tools used for structured analysis. A DFD is also known as a bubble chart. It has the purpose of clarifying system requirements identifying major transformations that will become programs in system design. In the normal convention, logical DFD can completed using only $ notations.

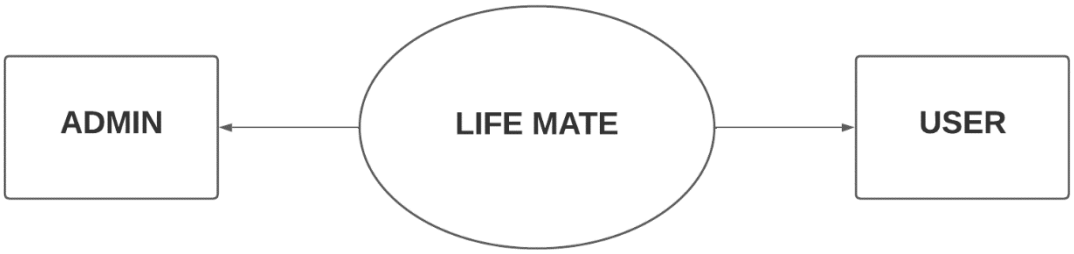
Represents source/destination data.

Represents data flow.

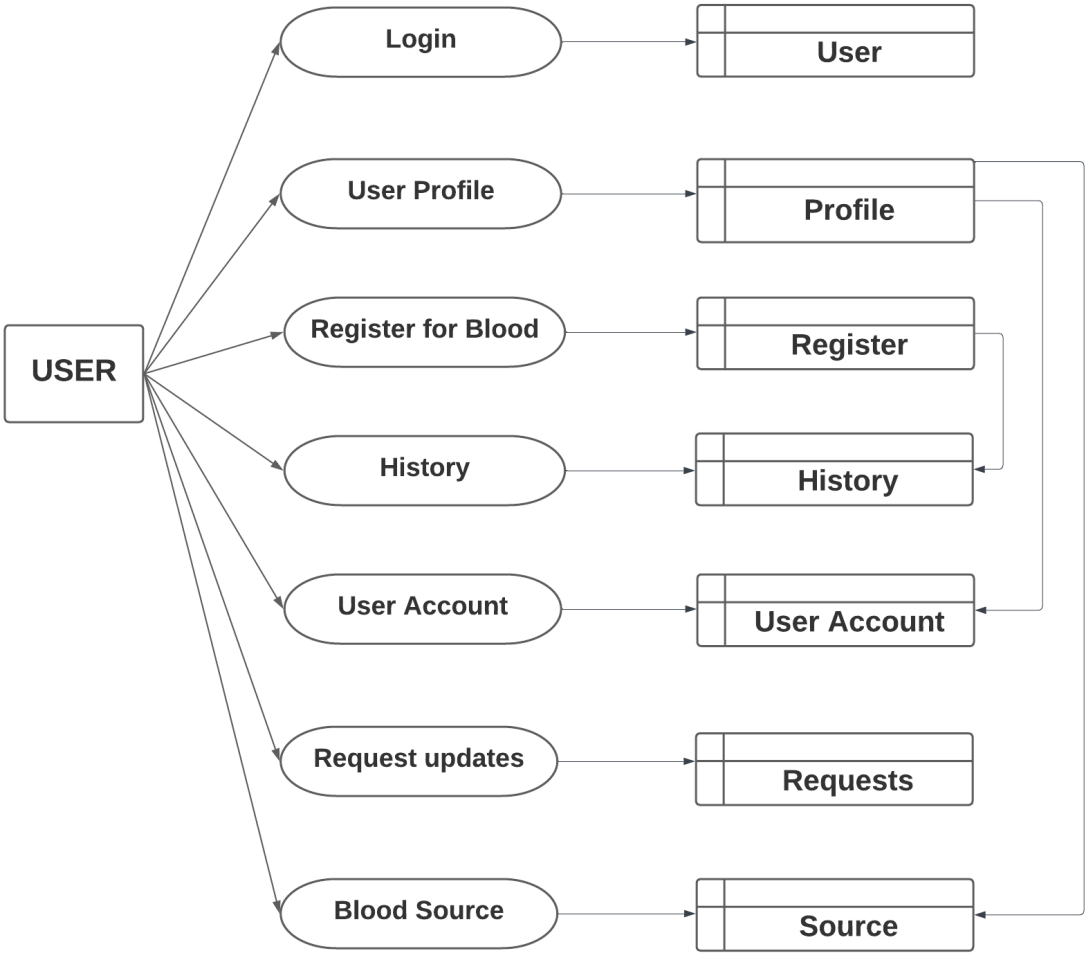
Represents a process that transforms incoming data into outgoing flow.

Represents data storage/internal storage.

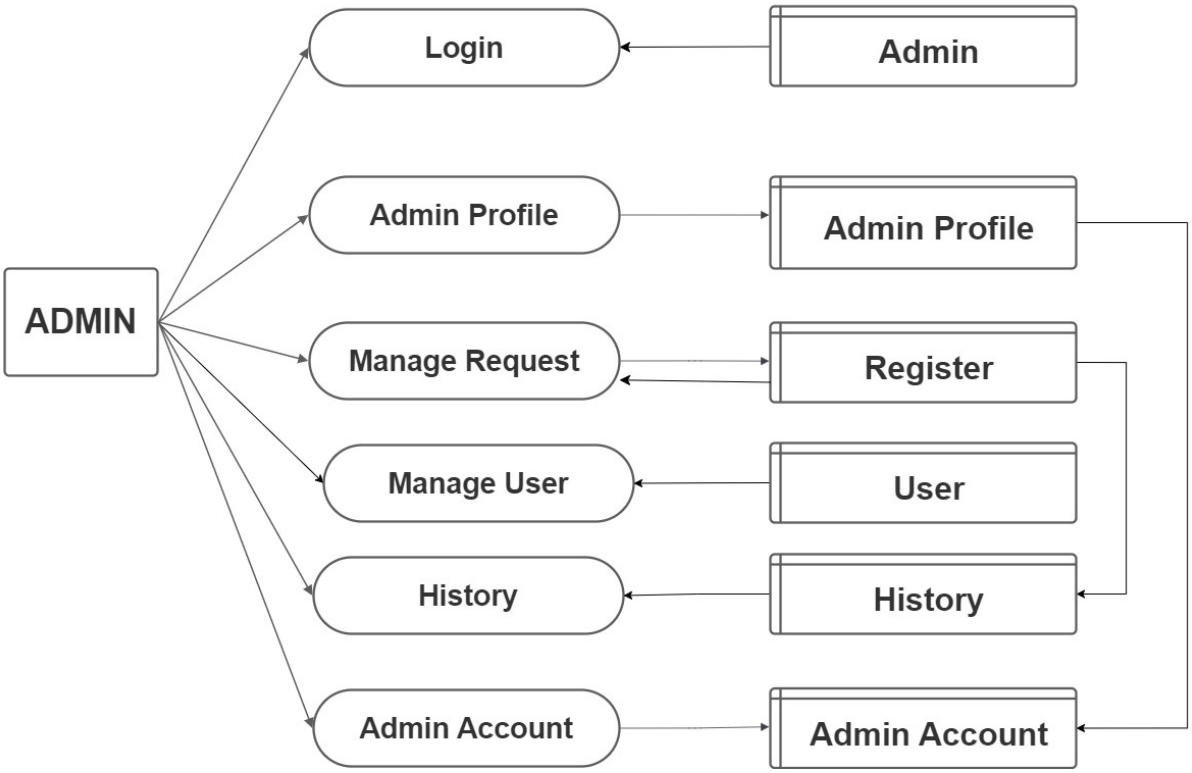
➢ LEVEL 0 DFD



➢ LEVEL 1 DFD - USER



➢ LEVEL 1 DFD - ADMIN



3.3.1 FUNCTIONS

The system after careful analysis has been identified to be presented with the following modules:

➢ USER

- **Login –** User can login to the application by entering username and password.
- **User Profile –** User can upload their profile details.
- **Register for Blood –** User can send blood request to admin.
- **History –** User can view all their progress and updates.
- **User Account –** User can view their profile.
- **Request Updates –** User can view updates provided by admin.
- **Blood Source –** Users can view all profiles to match their requirements.

➢ ADMIN

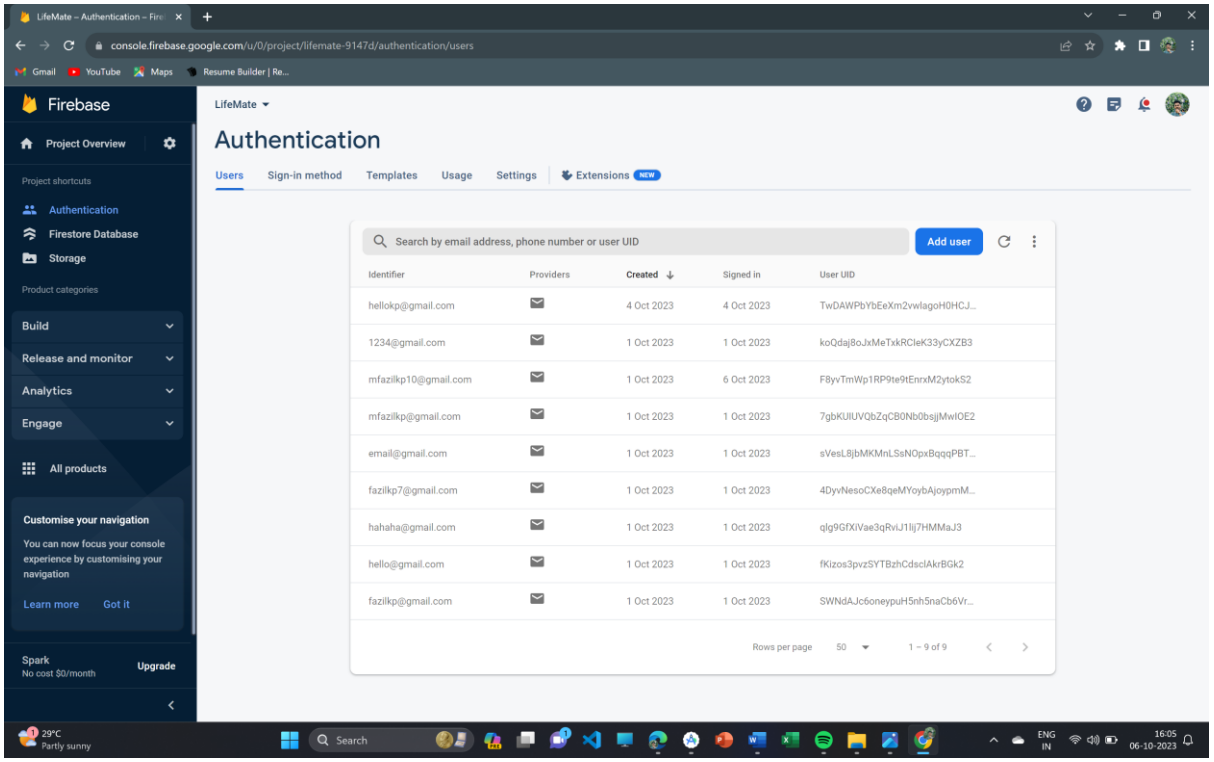
- **Login –** Admin can login to the application by entering panel code and password.
- **Admin Profile –** Admin can upload their profile details**.**
- **Manage Requests –** Admin can view and manage request.
- **Manage Users –** Admin can view and manage all users.
- **History –** Admin can view all their progress and updates.
- **Admin Account –** Admin can view their profile.

DATABASE DESIGN

A database is a collection of records. The main objective of database design is to provide effective auxiliary storage without any applications and to contribute to the overall efficiency of the computer program. components of the whole system. The organization of data in the database aims to achieve the following objectives.

- Controlled redundancy
- Ease of learning in use
- Data independence
- More information in low cost
- Accuracy and integrity
- Recovery from failures
- Privacy and security
- Performance

The design should be done in a way the information stored in the database can be retrieved quickly whenever necessary. The general theme behind a database is to handle information as an interfered whole. A database is a collection of interrelated data stored with minimum redundancy to serve users quickly and efficiently. Database design runs parallel without application design. As we collect information about what is to be done, we will obviously collect information about data needed to enter,stored messages and printed reports. The designing of the database is done with utmost care and security during the designing phase of the system. Special care was taken to develop a minimum number of databases for the maximum efficiency of the system.


LifeMate – Authentication – Firebase
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Firebase
LifeMate
Project Overview
Project shortcuts
Authentication
Firestore Database
Storage
Product categories
Build
Release and monitor
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All products
Customise your navigation
You can now focus your console experience by customising your navigation
Learn more
Got it
Spark
No cost $0/month
Upgrade
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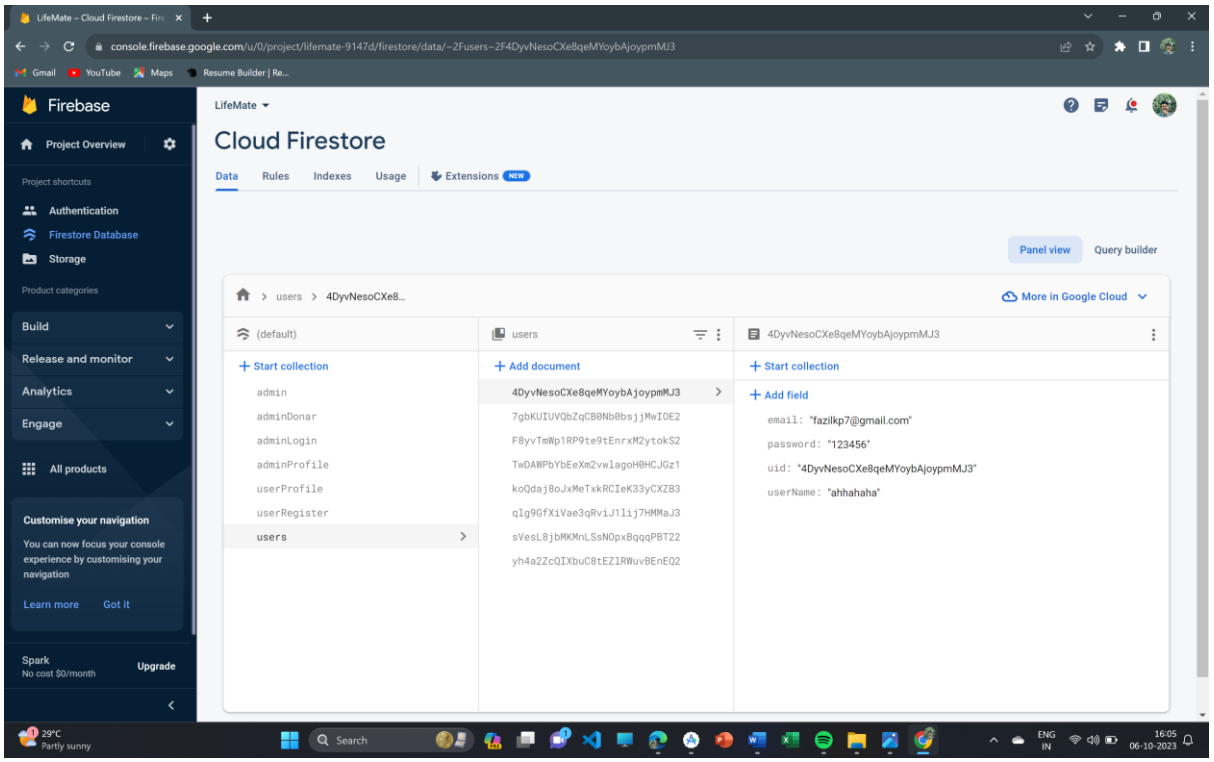
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Analytics
Engage
All products
Customise your navigation
You can now focus your console experience by customising your navigation
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Got it
Spark
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Upgrade
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Data
Rules
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userName: "ahhahaha"

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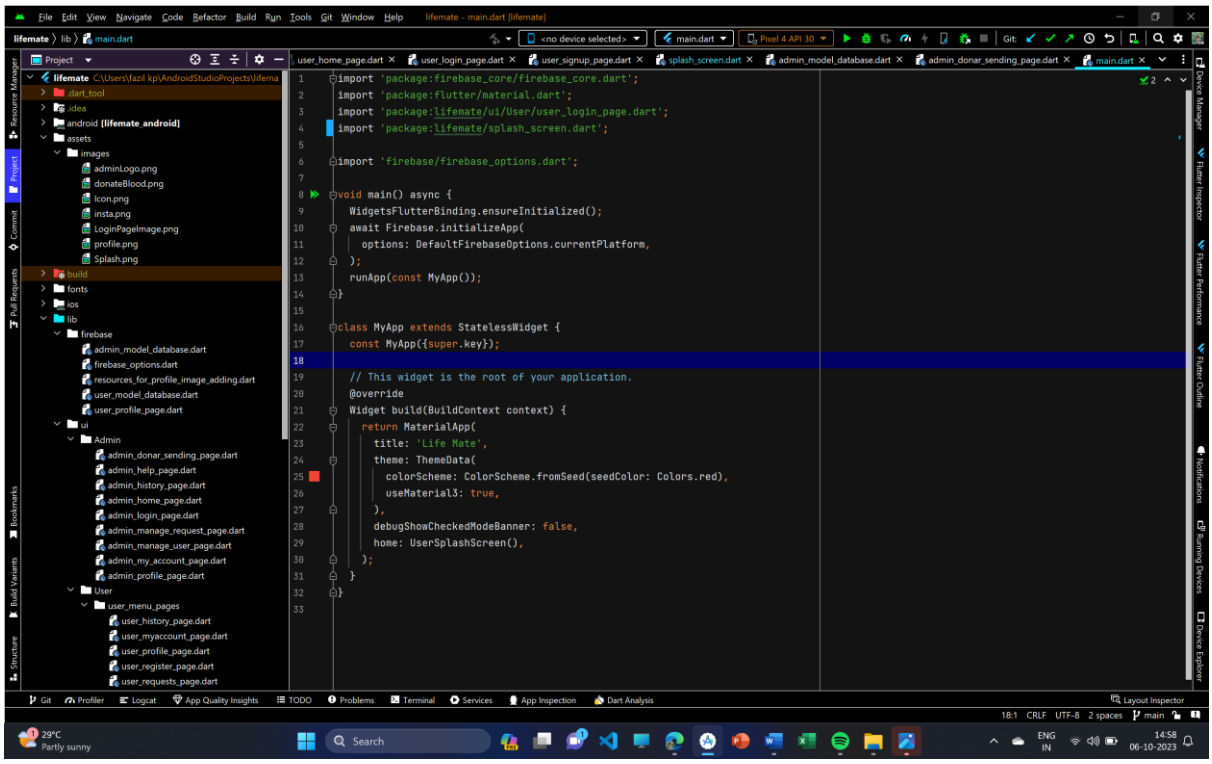
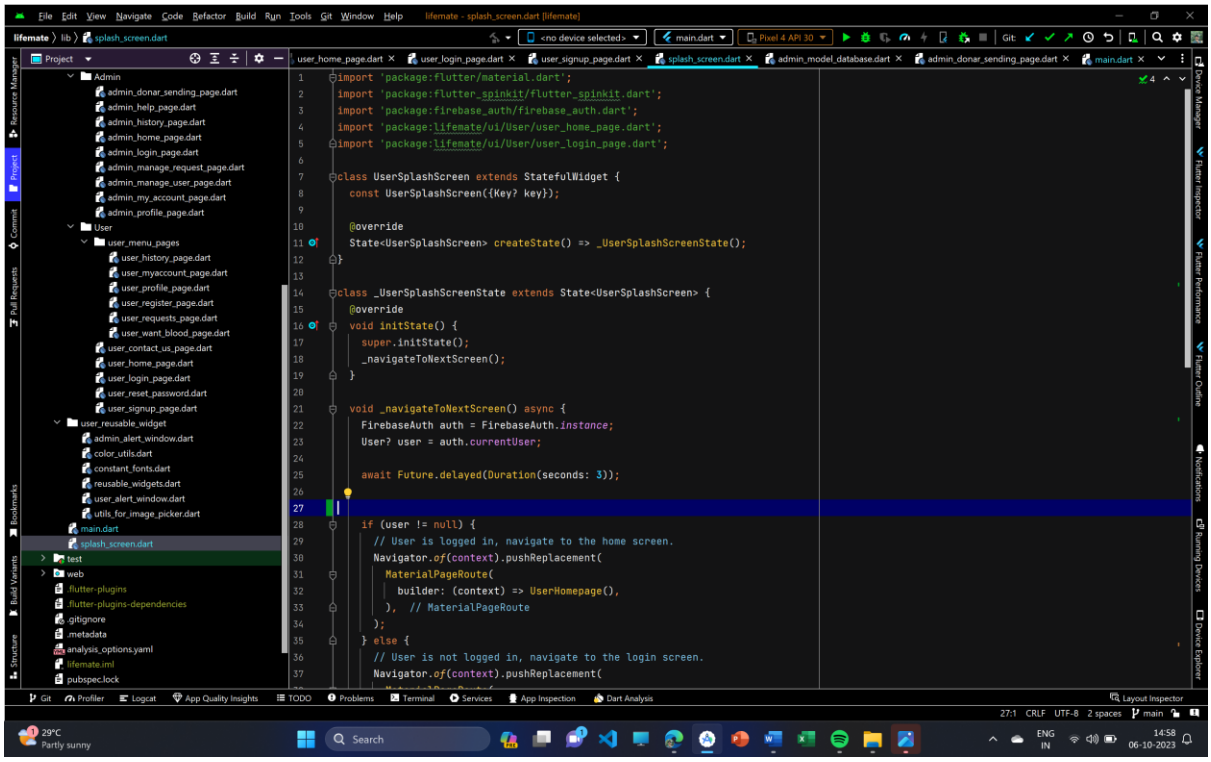
5. Flutter and Firebase tutorial by The Net Ninja: https://www.youtube.com/watch?v=1gDhl4leEzA&list=PL4cUxeGkcC9j--TKIdkb3ISfRbJeJYQwC
6. Flutter and Firebase tutorial by Reso Coder: https://resocoder.com/category/tutorials/flutter/firebase/
7. Flutter and Firebase tutorial by Andrea Bizzotto: https://www.andreabizzotto.com/course/flutter-firebase/
8. Flutter and Firebase tutorial by Flutter Explained: https://flutter-explained.dev/docs/firebase/firestore/

APPENDIX

CODE

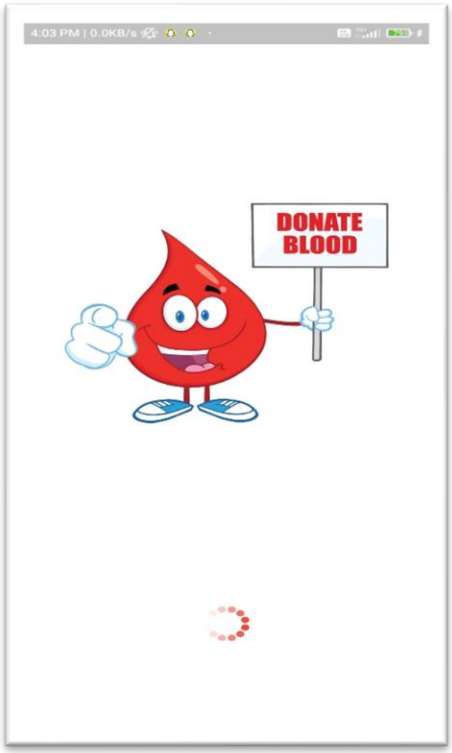




ANNEXURE

➢ APP – FOR USERS

SPLASH SCREEN



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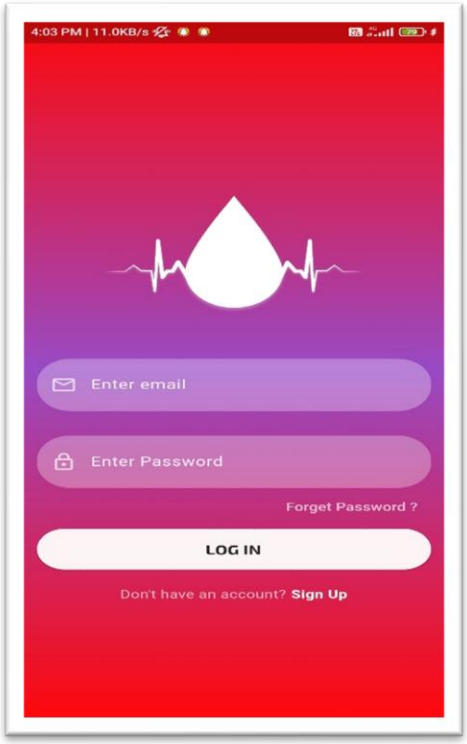

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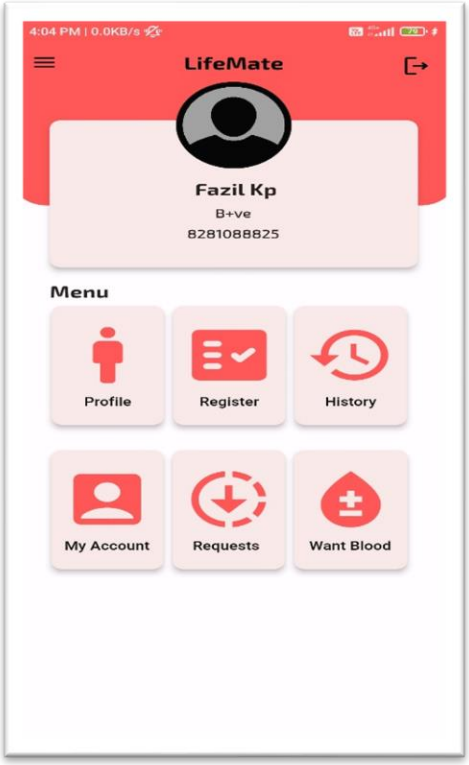
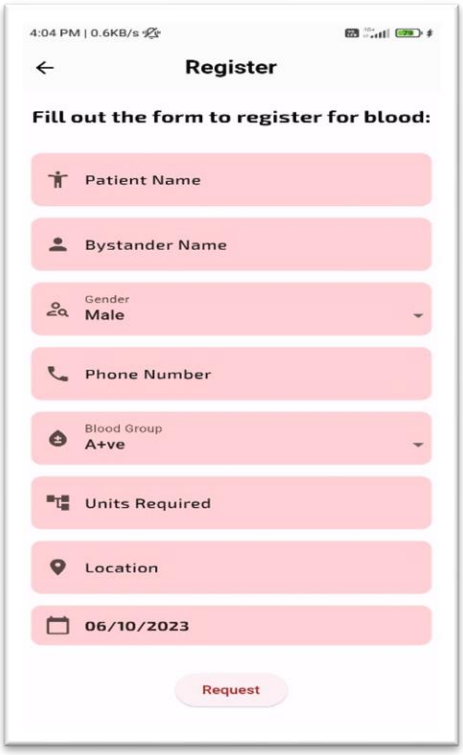


REGISTER PAGE



➢ APP – FOR ADMIN

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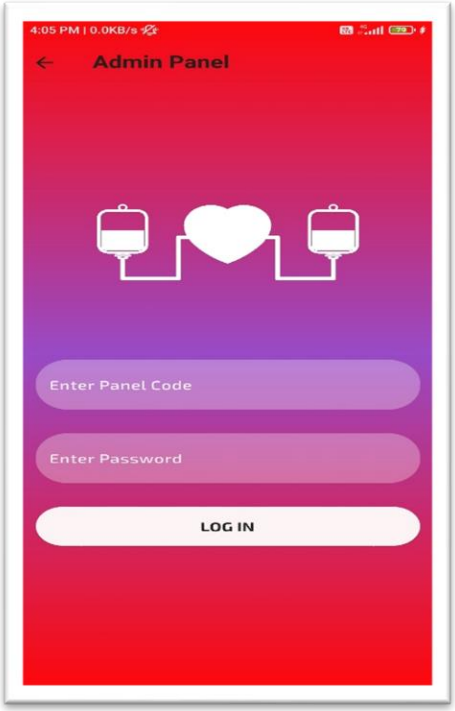

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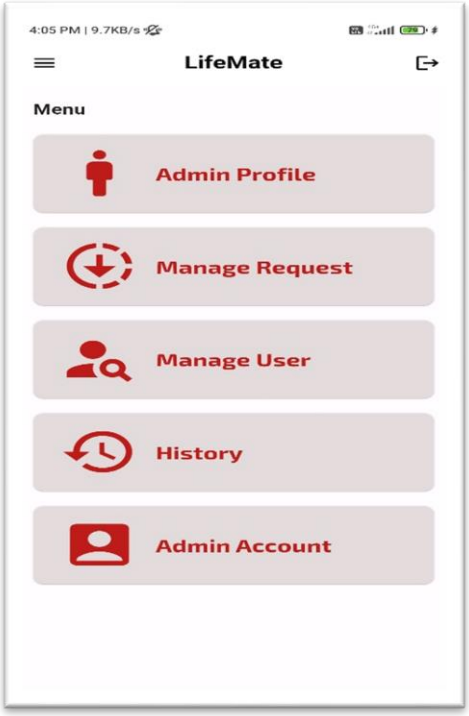

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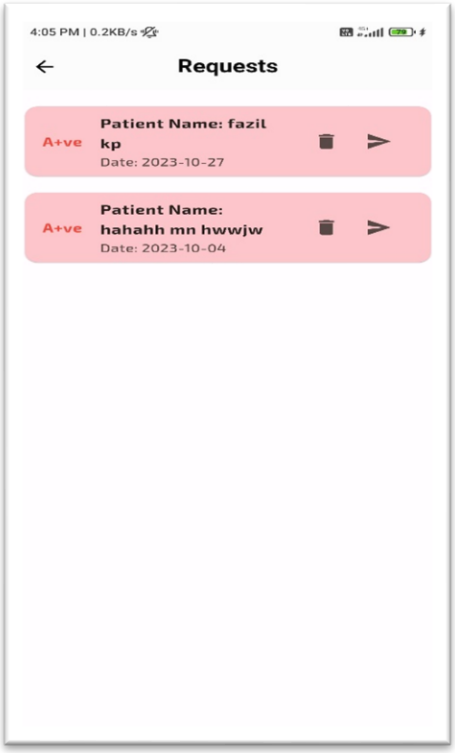

USER LIST