BLUD

GUIDE: Prof. Mini Joswin

TEAM MEMBERS: 60.Vyshnav CJ

52.Saurav KS

37. Jinash Jaleel 09. Adarsh P Sunil

CONTENTS

How We Did It?

DataBase

APIs Used

Testing

Issues Found

CONTENTS

Limitations and Potential Features

How We Did It?

• Frontend:

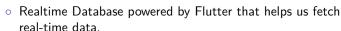
- Dart was used to build the front end of the app
- Reason: Dart is one of the popular languages used for building apps and Google backs it

Backend:

- NodeJS was used to create the services and the business logic
- Reason: NodeJS is one of the fastest runtime environments used to build backend applications and it can handle heavy loads

DataBase





- MongoDB: mongoDB
 - MongoDB is a popular and widely used NoSQL database with several advantages and significant importance to various applications and industries.

Third party APIs Used

- Geocoder: Provides the location data
- Opencage: Provides geographical coordinate details
- Twilio: Provides services like the transfer of messages through Whatsapp

Testing

- The Testing Method we used is White Box Technique.
- By employing this method, we found out various errors and optimization issues while checking the modules.
- Mainly the issues occurred during the integration of the Server and the Front End.

Bugs and Fixes

Backend

- Bug: Run time was relatively was high for some modules
- o Fix: Redundant codes and unwanted loops were removed
- Bug: Delay in reading and writing Database
- Fix: Rewriting the read and write code in promise method

Bugs and Fixes

FrontEnd

- Bug: Pixel overflow from the defined space
- Fix: Definition of a certain width/height compatible to the device's
- Bug: In Hive, a local storage system, a boolean variable governing the login status consistently redirects users to the login page, indicating an error in the system's logic.
- Fix: Resolved by identifying and rectifying the error in the boolean variable that determines the login status

Bugs and Fixes

Integration

- Data exchange between Server and Frontend.
- Improper sending of data
- Inability in handling exceptions from the Server by the Frontend
- Difficulties in comprehending the data types received from the server and the data types that should be transmitted to the server.

Limitations and Potential Features

- Live location of available donors on the map
- Blood Donation Drives in collaboration with Blood Banks

Demo