

Blood Donation App

Blud App - 1st Evaluation

Vyshnav C J Saurav K S Jinash Jaleel Adarsh P Sunil

Guide - Prof. Mini Joswin

March 29, 2023

Contents

- Introduction
- Literature Survey
- Gap Analysis
- Proposed System
- Requirement Analysis
- Requirements
- Conclusion
- References

Introduction

"Blud" is a blood donation app with a primary objective of donating blood safely and efficiently. It focuses on:

- Elimination of time delay to find a Blood donor
- Prevent inefficiency of spamming blood donation requests.
- Make blood donation easier for donors.
- Promote blood donation.

Literature Survey-page I

❶ Existing system 1

- Social media for blood donation
- Certificate Provisioned
- Donors can preselect the date and location
- Email/OTP Login

Literature Survey-page II

- ② Existing system 2
 - Predefined location selection system
 - Tattoo, HIV, Covid vaccine checks

Literature Survey-page III

Existing system 3

- Lets you choose user type (Plasma Donor, Hospital, Blood Banks, Donor, Activist)
- Facebook Sign In available
- Plasma, Platelet donation
- Emergency contact authorization asked

Gap Analysis

① Existing system 1

- Issues with OTP verification
- Error in the live updation of blood requests
- Poor notification system

② Existing system 2

- Unable to find blood bank status in an area
- Multiple bugs while providing location information

③ Existing system 3

- Very less no. of hospitals listed

Proposed System-page I

The following are key features of the proposed blood donation app system:

- Live updation of blood requests
- Efficient WhatsApp notification system
- Minimizing the time required to locate a blood donor
- Enabling direct communication with potential blood donors to increase efficiency and reduce the need for broadcast requests through WhatsApp groups

Proposed System-page II

- Simplifying the blood donation process for donors
- Utilizing GPS technology as the basis for the system's methodology
- The proposed system will be available to blood banks, hospitals, donors, and requestors who register with the system.

Requirement Analysis - Page 1

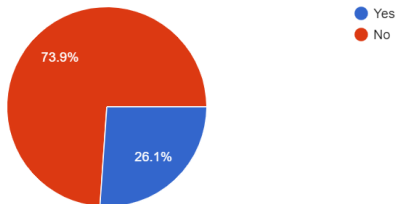
Collection of requirements done through:

- 1 Study of existing systems and gap analysis
- 2 Through a short survey
- 3 Through self logic

Requirement Analysis - Page II

Have you used any applications for blood donation previously?

23 responses



Requirement Analysis - Page III

What features do you expect from a blood donation app?

15 responses

Finding nearby blood donation centers and booking appointments

Tracking your blood donation history and health status

Receiving notifications and reminders for blood donation events and eligibility

It should have a quick response

Efficiency

Quick

Urgent availability

Live requesting system

Good app

Functional Requirements

- 1 User registration
- 2 OTP Validation
- 3 Details of Blood Banks/Hospitals
- 4 Location information of the user
- 5 Pinpoint tracking
- 6 WhatsApp integrated alert/notification

Non Functional Requirements-page I

① System Requirements

- ① Android 8.0 or above
- ② RAM: 2GB or above
- ③ Responsive and simple UI/UX design
- ④ Internet connection
- ⑤ Storage, GPS, Message Access

Non Functional Requirements-page II

② Security Requirements

- ① Two-factor authentication
- ② SSL(Secure Sockets Layer) certificate
- ③ Encryption
- ④ GPS service

Conclusion

- The evaluation provided valuable insights into user needs and expectations
- Key features have been identified to make the application user-friendly and effective in connecting blood donors with recipients
- Moving forward, user input will be prioritized to create a platform that meets their needs while adhering to social standards and regulations
- The blood donation application has the potential to make a positive impact in the healthcare sector by facilitating safe and efficient blood donations.

References

① Simply Blood App

- <http://play.google.com/store/apps/details?id=com.simplyblood>

② UBlood App

- <http://play.google.com/store/apps/details?id=com.ubld.ublood.activity>

③ Blood Friends App

- <http://play.google.com/store/apps/details?id=com.posl.bloodfriends>

④ Blood Donation Eligibility Criteria

- <http://nbtc.naco.gov.in/page/eligibility>

Thank you!