



SE: 801 : SOFTWARE PROJECT LAB III

PROPOSAL

Blood Donor Finder - An Android App



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Blood Donor Finder

An android app which helps to track nearest blood donor in the shortest time using GPS location system and also manages blood donation system

Motivation

- ▶ Satisfying emergency need of blood
- ▶ Reducing lack of information and inconsistency of data in blood donation
- ▶ Real time tracking and searching of nearest blood donor
- ▶ Learning Android and Developing first mobile app

Project Description

1. Registration and Authentication

- ▶ Simple registration system for all users
- ▶ User profile creation
- ▶ Easy authentication as it works on emergency case

Project Description (continued...)

2. User Profile

- ▶ Containing user data, previous records, stats, ranking etc.
- ▶ Can be seen by any other user

Project Description (continued...)

3. Receiver/Hospital

- ▶ Raising request for blood
- ▶ Mentioning issues like patient's state, specific requirement etc.
- ▶ An automated search through map will be held to notify nearer donor/s
- ▶ Getting notification of confirmation from nearer donor/s
- ▶ After getting the search result of nearer available donor, receiver can select best suited donor from the list.

Project Description (continued...)

4. Donor

- ▶ Getting reminder of neared request
- ▶ Having choice to accept or reject the request
- ▶ Updating current health status of himself

Project Description (continued...)

5. Health Status

- ▶ Recent records and reviews from receiver/hospital reflect on it
- ▶ Useful for receiver/hospital to check donor's health status when needed

Project Description (continued...)

6. Social Reward & Ranking System

- ▶ Reflecting donor's contribution and effectiveness of donation according to reviews
- ▶ May appreciate effective donors and encourage others

Platform & Technology

- ▶ Android Platform
- ▶ Java/React-Native (Back-end)
- ▶ SQLite (Database)

Conclusion

To fulfill course requirement and to develop an useful utility I made this choice. A few more features may be introduced according to necessity. And also some changes may be happened.