

# REDJACKET

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## ABSTRACT

Blood is one of the most important elements of human body. Blood can be defined as the fluid we have in our bodies that carries oxygen from the lungs to the rest of the body. Also carries waste to be eliminated from the body.

This project is aimed to developing an Android Application of “RedJacket” information about blood donors.

All types of blood group donors are available in the database of the application. Through this app any person who is concerned in donating the blood can register himself in the same way if any organization wants to register itself with this app that can also register. They have to fill all information about that person. If any person wants blood then he/she can visit our app and can easily get the information about the blood donor. He/She has to search area pincode wise to access the blood donor which will display all information of the particular donor.

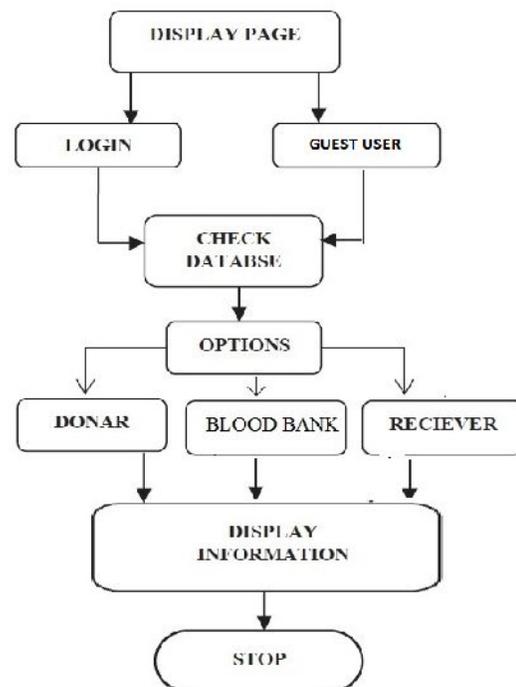
Admin is the main authority who can do addition, deletion, and modification if required. The donors who are nearby location are tracked by the android application by pin code system. The purpose of this application is to update the relevant information regarding the donors who have already donated blood in various hospitals, so that when it is needed for any others they can view other donors where it can be accessed through this app. The Blood Donation App will make the easiest and fastest way to get a best match blood donor.

**Keywords – RedDonate, Health care Services, Blood bank application, Donor, android.**

## INTRODUCTION

### 1.1 Project description

Blood donation is one of the most significant contributions that a person can make towards the society. It is not harmful for an adult person to donate blood. The body of the donor can regenerate the blood within few days. It poses no threat to the metabolism of the body. An ailing body needs blood for various reasons. He may be attacked with anemia, undergone an operation or may meet with an accident. But such a patient may die for want of blood as it is not always available. Even a pregnant mother may need blood in case of emergency situation.



**Fig. Flow of System**

### PROPOSED SYSTEM

The proposed method is to create an app with an android application is developed so that the blood donors are available easily within the required time.

The donors who are nearby location are tracked by the android application by city pin code. The purpose of app is to update the relevant information regarding the donors who have already donated blood in various hospitals, so that when it is needed for any others they can view other donors where it can be accessed through this app.

The proposed system functionalities are described as follows:

- The Blood donor app notifies the latest news or information about blood donation camp details.
- A better connection via the mobile application at places where there is slow internet connection.
- The appointment can be fix by the volunteers are reserved for the day and session that they want or free to make blood donation.
- The system provides authenticated and authorized features to the current system where private and confidential data can only be viewed by authorized user.
- The system provides the recording function for every process of the blood in order to keep track of the blood stock accurately.

- Most of times users should want to wait in queue.
- We get an idea how more and more blood donor can get available.
- Then we decide to develop app and maintain database of blood donor.
- Using this app blood receiver can easily search capable donor for him within some minute.
- Time is money, and same thing apply for blood in case of accident, operation, etc.
- Using this app blood can available through within one to one and half hour.

### FLOW DIAGRAM

The design phase involves converting the informational, functional, and network requirements identified during the ignition and planning phases into unified design specifications that developers use to script programs during the development phase.

Program designs are constructed in various ways .using a top-down approach, designers first identify and link major program components and interfaces, then expand design layouts as they identify and link smaller subsystems and connections.

### EXISTING SYSTEM

- Initially by observing blood donation camp, visiting blood bank, we came on the conclusion, there are very less blood stock available in blood banks.
- It is having lots of manual work.
- It is a waste of time to go to blood bank centers if available blood not presences.

LEVEL 0 DFD

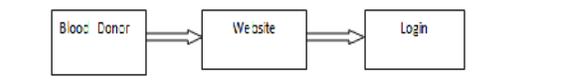


Fig. Level 0 DFD

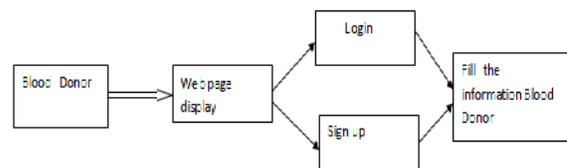


Fig Level 1 DFD

## CONCLUSION

- We have proposed an efficient and reliable blood donor information.
- The service provided by the proposed system is needed and valuable to health sector where a quality of the blood is considered for the safety of the patient through a systematic process by the blood donor system.
- The proposed system is a web portal which helps us to reduce the human mistakes which are present in the existing system.

## Future Works

The Blood Donor App puts the power to save lives in the palm of your hand.

Donating blood and platelets is easier than ever.

Find nearby Red Cross blood drives, schedule appointments, earn rewards from premier retailers, and follow your blood's journey from donation through delivery (when possible), and create or join a lifesaving team and track its impact on a national leader board.

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