

Literature Survey of the Plasma Donor Application:

[1] In “Android blood bank” by prof. Snigdha proposed an application for blood donor. In that application the donor can find the exact path by using GPS (Global Positioning System). The detail of blood donors will be saved private data and confidential data are only viewed by the administrator. They have methodologies like PHP, MY SQL, Android.

[2] In “MBB: A Life Saving Application” by Narendra Gupta has proposed a method to create a website with android application. In this application, it has been proposed that the donor is tracked by Geographic Information System (GIS). The purpose of their website is used to update their current system where data can only be viewed by authorized user. They contain two device type:

- 1)An android phone with android OS
- 2) A computer for website and database which is used to store the information about the donor.

[3] In “Android Based Health Application in Cloud Computing for Blood Bank” by Sayali Dhond has proposed android based application for blood donor, in which the donor’s information are stored in cloud. They user should request blood on the cloud and the information are sent to nearby hospital or blood donor who are register on cloud.

[4] In “The Optimization of Blood Donor Information and Management System bt Technopedia” by P. Priya has proposed a method of creating website with android application in which the blood donor can easily available within the required time. The donor who are nearby location are easily tracked by GIS. In this application the website is to update the information of donor who have already given blood in various hospital. While comparing to manual system, computer-based information system is time consuming, laborious.

Gathered Information:

Various features of the application are described and their needs of use are analysed. If a patient needs a blood at a clinic, blood donors in vicinity can be contacted through using a clinic management service provided in this application. Registered donors will get notification for the blood requests only if their blood group is compatible with the requested blood type and in the same city/region. Then matching blood donors can go to the requesting clinic and donate.

Blood donation rate in high-income countries is 36.8 donations per 1000 population, 11.7 donations in middle-income and 3.9 donations in low-income countries. In low-income countries, up to 65% of blood transfusions are given to children under 5 years of age whereas in high-income countries, the most frequently transfused patient group is over 65 years of age, accounting for up to 76% of all transfusions.

Blood is vitally important for living beings. Blood donation is a very safe process. It is an active way of helping others and whole of society. Despite the increasing demand for blood in health care system, blood donation is only source to meet the demand. Although an estimated 38% of the population is eligible to donate, less than 10% actually do each year. Currently only 1 in 30 people give blood, but 1 in 3 people will need in their lifetime.

The objective would be,

- To provide immediate information for the potential Blood Donors considering what blood type is needed.
- To provide database of the possible blood donors.
- To mobilize the data collected for the benefit of the end users and patients.
- To inform, educate and encourage the public on the need for voluntary blood donation and to in still public consciousness of the principle that blood donation is a humanitarian act.

- To establish information for all sectors of the community to participate in mechanisms for voluntary and non-profit collection of blood.