

## LITERATURE SURVEY

The system we present here is adequate for searching plasma donors for available plasma and thereby saving valuable time and money. This application provides necessary options to serve people on their emergency need making them free from worrying for plasma by providing lot of donors at a single click.

The options that are provided by this application are:

- Donor registration and plasma collection
- Plasma requisition/issue
- Discard accounting
- User access control
- Detailed donor database
- Maintain and update unique donor identification
- Search facilities by donor, patient, doctor, plasma bag, and other recognizing factors
- Correlation and cross referencing between files
- Powerful search for donors by plasma group, sex, location, telephone number.
- Exhaustive report formats and registers
- Interface with grouping and testing machine
- Sends various auto-SMS for alerting donor and reminding location and time
- Adequate security to protect users' potential information

Besides these, there are ample scopes to improve this application. Some more features can be added to establish this application for a social networking application. Plasma Donation Management System is a web enabled and mobile-based application to maintain day to day transactions in a plasma bank. This application is to create an e-Information about the donor and organization that are related to donating the plasma. This software help to register all the donors, Plasma collection details, plasma issued details etc [3]-[4]. When registration is completed, a user becomes a donor who will be able to open an account providing fundamental information with email ID and Password [5]-[7]. They can modify their account information by updating username, Facebook ID, mobile number and profile picture. If donors are eager to donate plasma they can confirm the system [8]. They can remove their account from the system if they wish for.

In this application, Admin is the main authority who can add, delete, and modify information if required. A user is able to search donor from the home page. This application provides search facilities by donor, patient, doctor, plasma bag, and other recognizable factors. A dynamic search will show donor information by nearest place and plasma donation expire date. It will make easier to find and contact with donors when needed. There is add on facility of printing available as an option [9]-[11]. Interface with grouping and testing machine provides user friendly communication. This application sends various auto-SMS for alerting donor and reminding location and time. Donor can send or receive message within this system.

This system will automatically alert a donor before 24 hours of donating plasma reminding the location and time by sending message when he/she is again eligible for donating plasma after his/her previous donating. Donor can use this application through android based mobile phone. Donors login into the system with their e-mail Id and password. It allows donor to search others by location, plasma group. They can get other donors details information. If they want to contact with donor, they can directly call to available donors. We can say in short that Plasma Donation Management System is an online centralized web portal which helps plasma banks, hospitals and any other users to look for donors in their nearby area who will be available in quick time. This system helps the admin to check the database when he wants and it is very flexible for the hospital management, plasma banks and any users to retrieve the data when they want and they can have the data according to the query given by the user from one particular date to another by the query given by admin.

## REFERENCES

Several experiments have been carried out over the years by different groups of researchers. Here are some of the following groups:

[1] Denuis O'Neil (1999). "Plasma component" Archived from the original on June 5, 2013. Normally, certain amount of human body weight comes from plasma. For adults, it is 4-6 litres of plasma. This essential liquid plays an important role in transporting oxygen and nutrients to cells and removing carbon dioxide, ammonia and other waste products. Plasma is a very common tissue composed of over 4000 different types of components.

[2] ways to keep your plasma healthy, Original Archived November 1, 2013, Accessed November 11, 2011. Plasma donation is one of the most accepted practices for saving lives, While earning a few dollars. The whole process can take some time, but it's well worth it once you experience it a few times. Accepting money in exchange for plasma is welcome. It's a move when you feel like you're not just a hero, but you're adding value to yourself. The term "healthy" does not mean only in the absence of disease. It also means that you are healthy enough.

[3] Ripathis S, Kumar V, Prabhakar A, Joshi S, Agarwal A (2015). "Microscale Passive Plasma Separation: A Review of Design Principles and Microdevices," J. Micromech Micro 25 (8): 083001;

Plasma separation is of great importance in the fields of diagnosis and healthcare. Due to the lagging transition to microscale, these recent trends are a rapid shift towards shrinking complex macro processes.