

# **Project Report**

## **Plasma Donor Application**

- **Introduction**
- **Overview**

This project is a simple demonstration of plasma donor application. It is developed in Oracle workspace using fundamentals of SQL queries and the aggregate functions. It also makes use of forms and extraction of data from them to store in our databases, generate graphs as well as pie chart for a simpler presentation.

The main page or the Home Page holds a logo of our application naming it. We have several other pages for various other functionalities. Our pages serve these following properties:

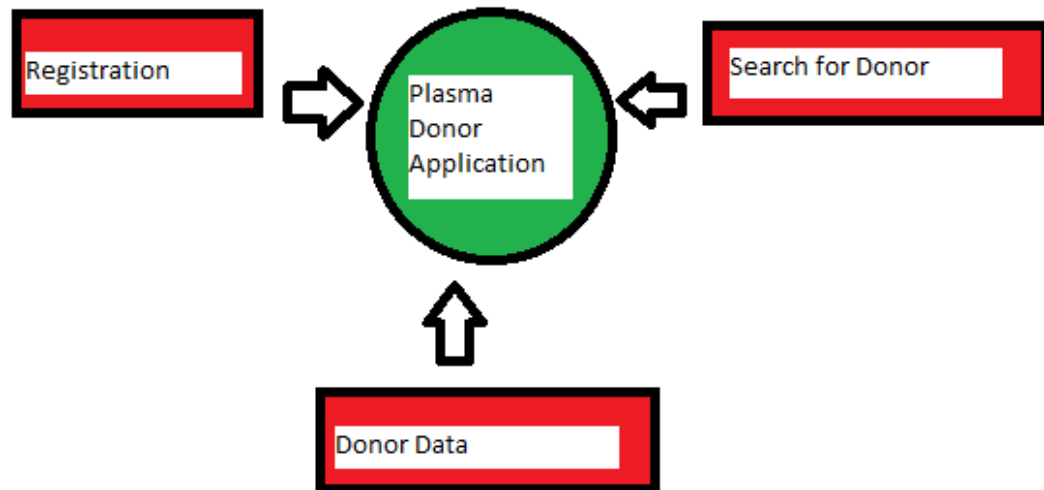
1. Donor Registration
2. Search for a donor
3. A graphical representation of collected data
4. Send emails on request for plasma

Donor Registration requires an individual to fill up important personal details like email, phone no, etc. and then the record is added to the database. Next Page has provide the facility to look for a particular donor and adds several filters to be performed on our data based on one's requirements. The last page depicts a bargraph of infected individuals data and a pie-chart for depicting donor's data.

### **Purpose**

The purpose for creating this application is to make it hassle-free for the people who are in need of a certain group. It makes it easy for look for a certain blood group. Moreover it maintains a dataset of all samples collected from different people and in similar way it is utilised by other needy people by making use of search donor functionality which is rather effective and time saver. This can be improved even better by making the UI more better and improving the quality of records we maintain.

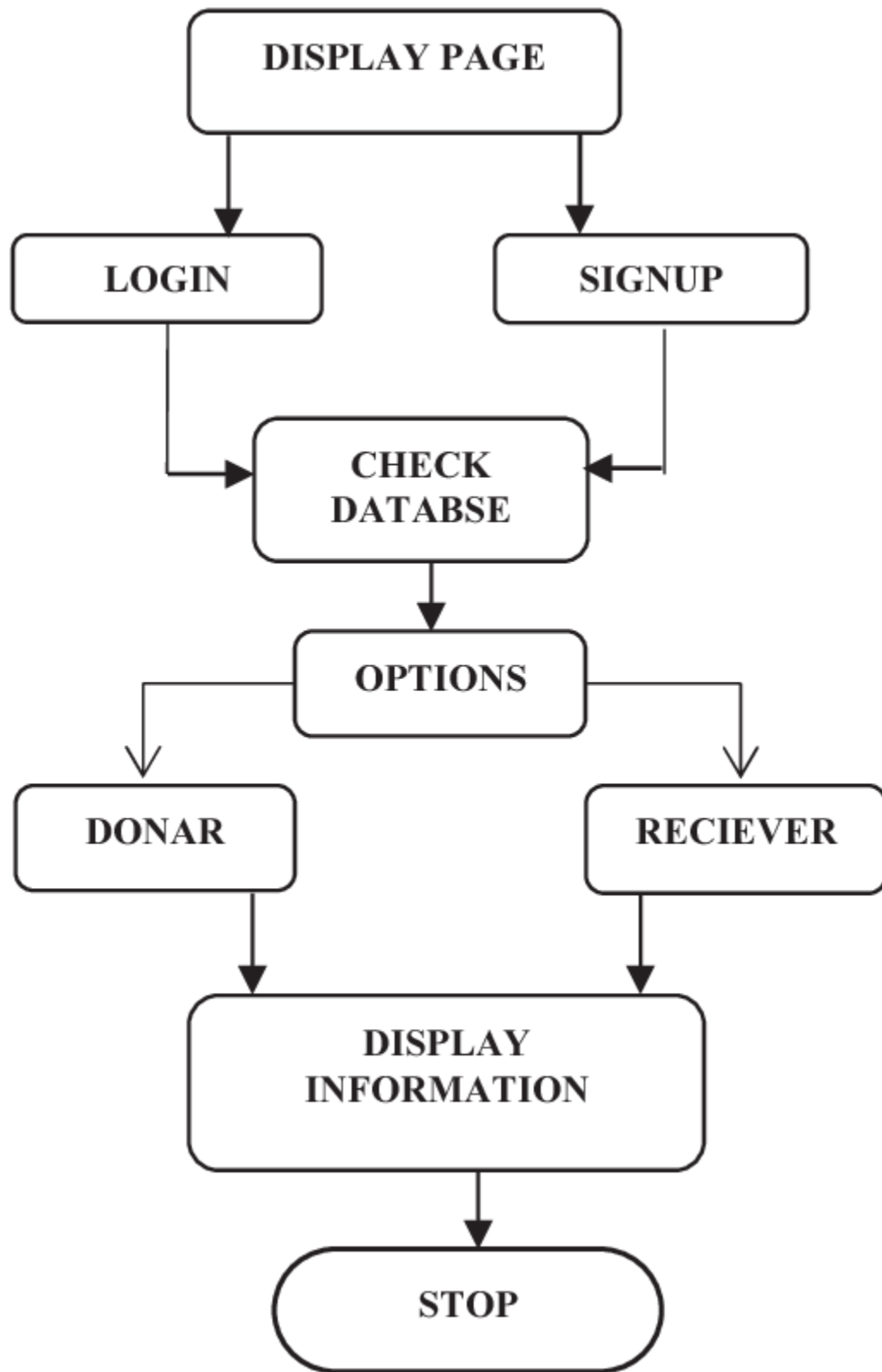
### **Block diagram**



### **Hardware/Software Requirements**

- CPU: 1.6 GHz for web, 4 x 1.6 GHz for database
- RAM: 4GB
- Minimum Database Space: 10GB
- Good Internet Connection
- Windows 7 or higher

### **Flowchart**



# Final Findings

Student Dashboard | SPS-11879-Plasma Donor Applic | J Balvin, Willy William - Mi G | Donor Registration

iacademy.oracle.com/ords/f?p=15533:2:2432164121333:NO::

Apps | Gmail | YouTube | Maps

### PlasmaDonor

in\_a441\_sql\_s08

- Home
- Donor Registration
- Search Donor
- Donor Data

#### Create Form

Email: abc@gmail.com

Name: abc

Phone: 657436

City: hyderabad

Infected: yes

Blood Group: A+

Cancel Create

Activate Windows  
Go to Settings to activate Windows.  
[Show all](#)

flowchart.png

Type here to search

29°C 23:40 30-05-2022

Student Dashboard | SPS-11879-Plasma Donor Applic | J Balvin, Willy William - Mi G | Search Donor

iacademy.oracle.com/ords/f?p=15533:3:2432164121333:NO::

Apps | Gmail | YouTube | Maps

### PlasmaDonor

in\_a441\_sql\_s08

- Home
- Donor Registration
- Search Donor
- Donor Data

Search: cdb Go

Email	Name	Phone	City	Infected	Blood Group
cdb@gmail.com	cdb	657436	hyderabad	yes	A+
chf@gmail.com	akash			no	AB-

1 - 2

- Columns
- Filter
- Data
  - Sort
  - Aggregate
  - Compute
  - Flashback
- Format
- Chart
- Group By
- Pivot
- Report
- Download

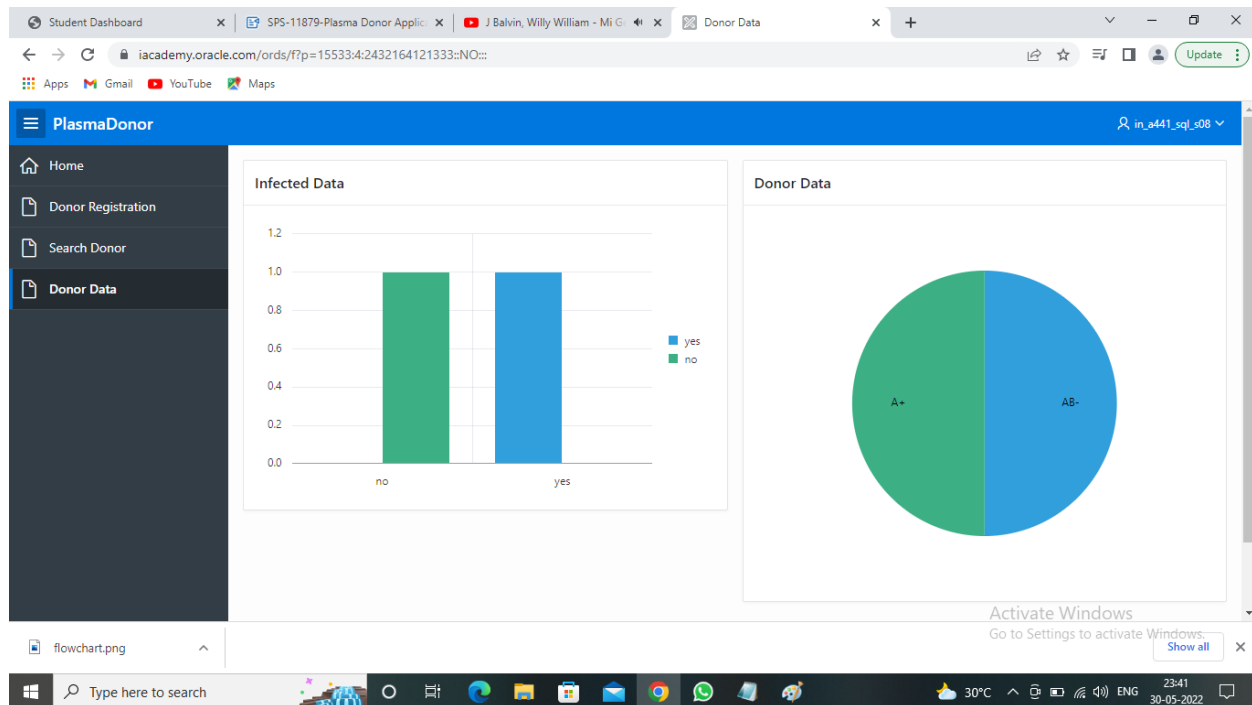
Release 1.0

Activate Windows  
Go to Settings to activate Windows.  
[Show all](#)

flowchart.png

Type here to search

30°C 23:40 30-05-2022



The screenshot shows the PlasmaDonor application interface. The left sidebar contains navigation links: Home, Donor Registration, Search Donor, Donor Data, and Send Email. The main content area displays a 'Generate ticket' form. The form has a text input field for 'Enter your email' with the value 'deepmayur47@gmail.com'. Below this is a text area for 'Request Details' with the value 'blood plasma required. hurry up.'. A 'Send' button is located at the bottom right of the form. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

Generate ticket

Enter your email

Enter Email  
deepmayur47@gmail.com

Request Details  
blood plasma required. hurry up.

Send

## Applications of Plasma Donor Application

The applications of the plasma donor application are as follows:

1. Availability lookup for different blood groups
2. Hassle free and time saving

3. Makes emergency situations feasible

## **Conclusion**

This application serves as a bridge between the needy and cure. It is mainly developed for the people living in rural areas to make use of it in maintaining records of groups available in a region. Hence it is quite beneficial for people to know more about it and how it helps in serving a broad category of patients in need of blood transfusion.

## **Future Scope**

Following changes can be made to improve the application even better:

1. Improving the UI
2. Maintaining even more details about a donor
3. Quality records management
4. can be added locations of availability
5. Making it more efficient to deal a large collection base
6. can be made better by adding a feature like prediction of diseases.

## **Appendix**

The source code of the application is available on the following github page

link: <https://github.com/smartinternz02/SPS-11879-Plasma-Donor-Application>

username: ayush5j8

password: Ayush@706