

# 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:

Donor Registration

Search for a donor

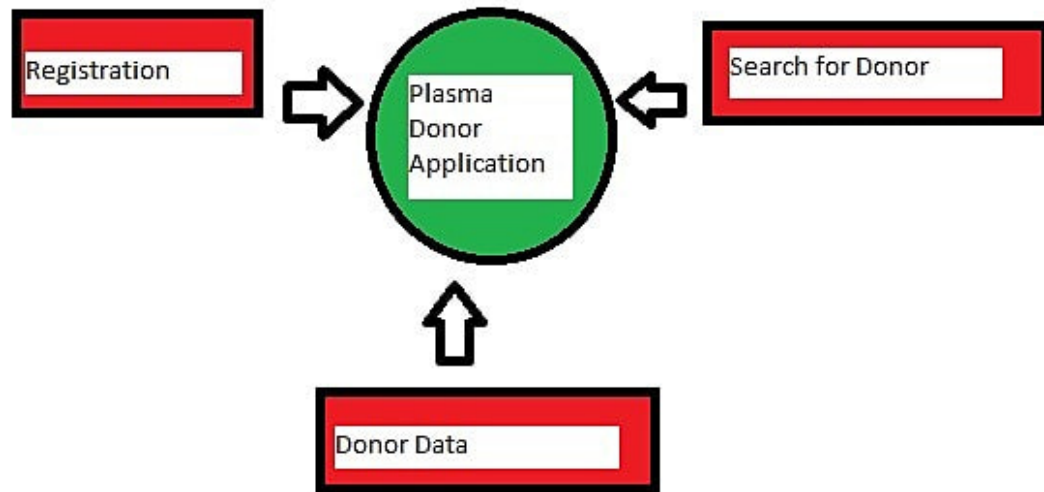
A graphical representation of collected data

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

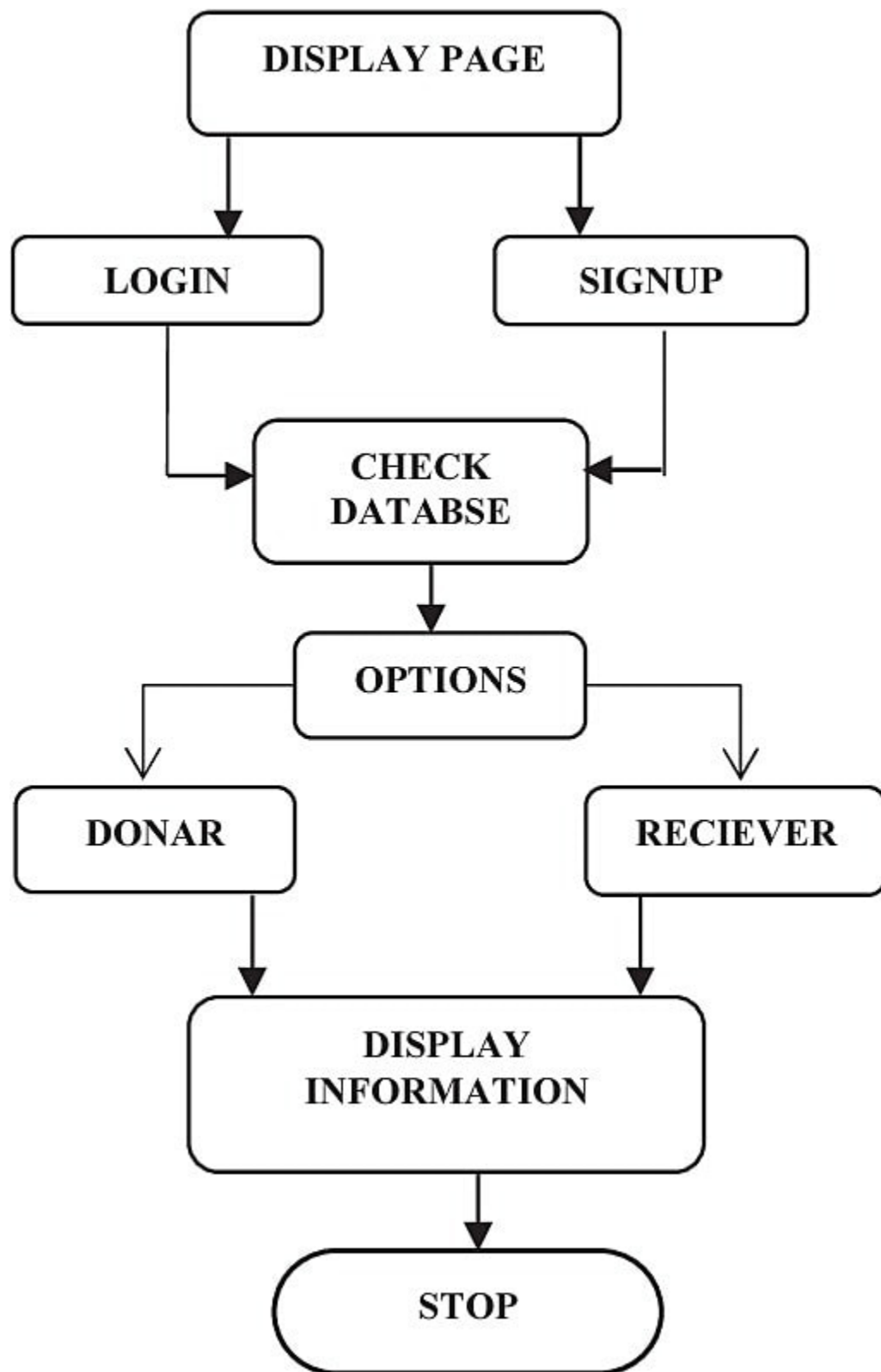
RAM: 4GB

Minimum Database Space: 10GB

Good Internet Connection

Windows 7 or higher

Flowchart :



# Final Findings

The screenshot displays the PlasmaDonorApplication web application interface. The top navigation bar is blue with the application name 'PlasmaDonorApplication' and a user profile 'in\_a393\_sql\_s20'. The left sidebar contains links to Home, Register a Donor, Search Donor, Donors Data, and Email. The main content area shows the 'Create Form' with input fields for Email, Name, Phone, City, Infected, and Bloodgroup. Below the form is a table with 3 rows and 6 columns: Email, Name, Phone, City, Infected, and Bloodgroup. The table contains data for three donors: mohan@gmail.com, aniljyoshi@gmail.com, and ayush@gmail.com. The bottom of the screen shows the Windows taskbar with the date 31-05-2022 and time 20:34.

**Create Form**

Email

Name

Phone

City

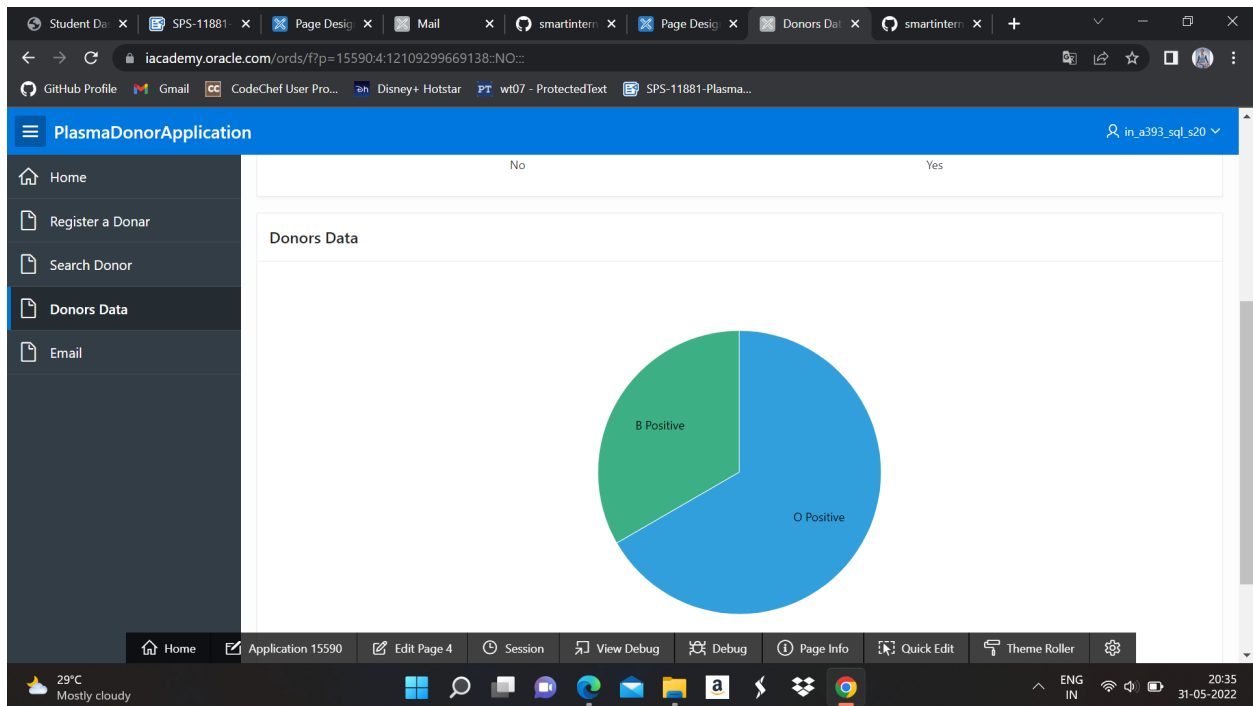
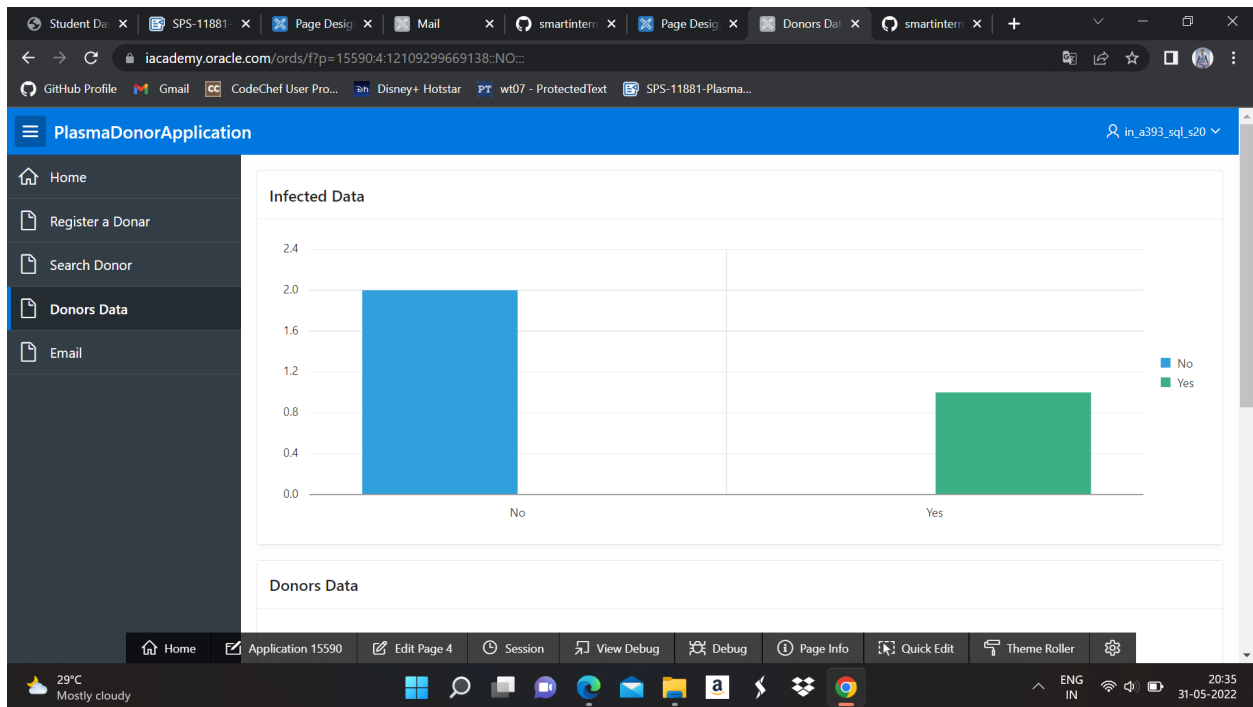
Infected

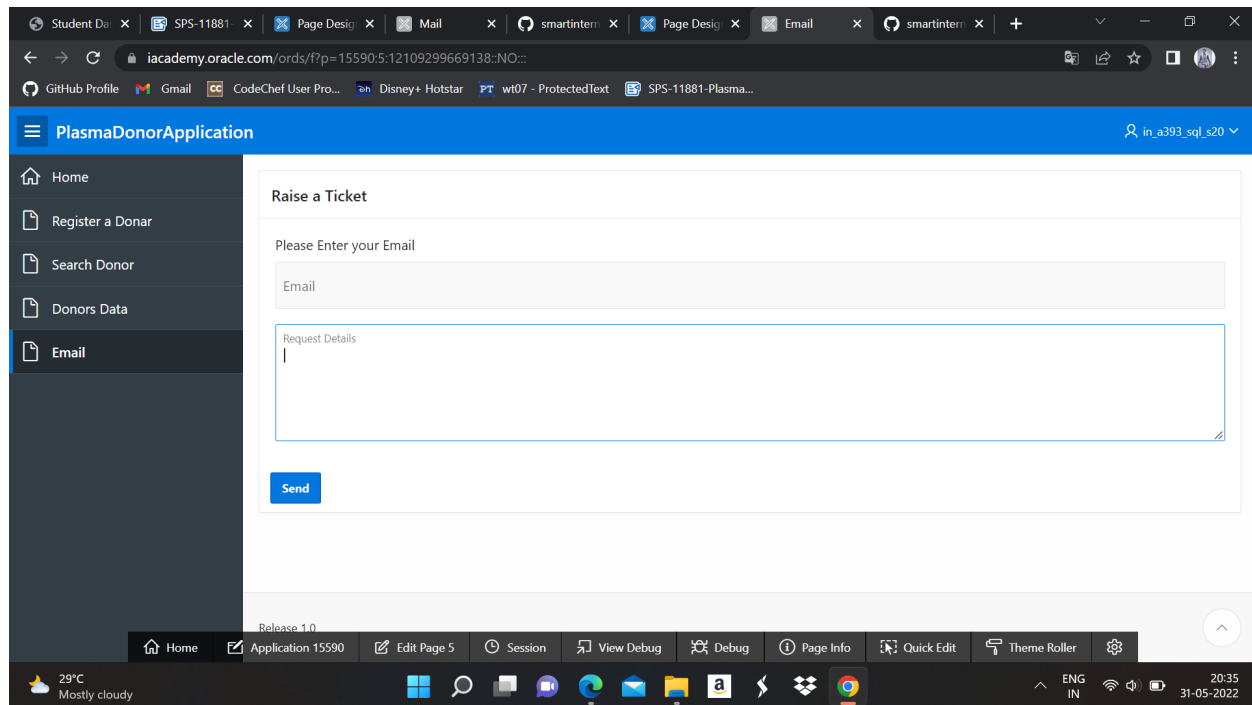
Bloodgroup

**Search Donor**

Email	Name	Phone	City	Infected	Bloodgroup
mohan@gmail.com	mohan	9010669560	Hyderabad	No	O Positive
aniljyoshi@gmail.com	anil	8886994109	Hyderabad	No	B Positive
ayush@gmail.com	ayush	9999999999	Hyderabad	Yes	O Positive

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## Applications of Plasma Donor Application

The applications of the plasma donor application are as follows:

Availability lookup for different blood groups

Hassle free and time saving

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 needy of blood transfusion.

## Future Scope

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

Improving the UI

Maintaining even more details about a donor

Quality records management

can be added locations of availability

Making it more efficient to deal a large collection base

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-11881-Plasma-Donor-Application/>

Workspace : IN\_A393\_SQL\_S20  
Username : IN\_A393\_SQL\_S20  
Password : Mohan@123