

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

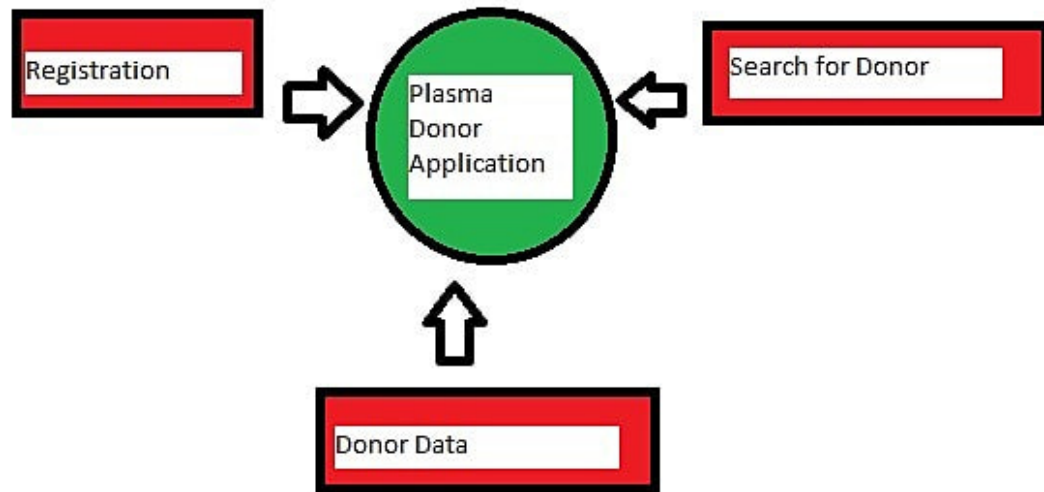
A graphical representation of collected data

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 provided 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 to 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

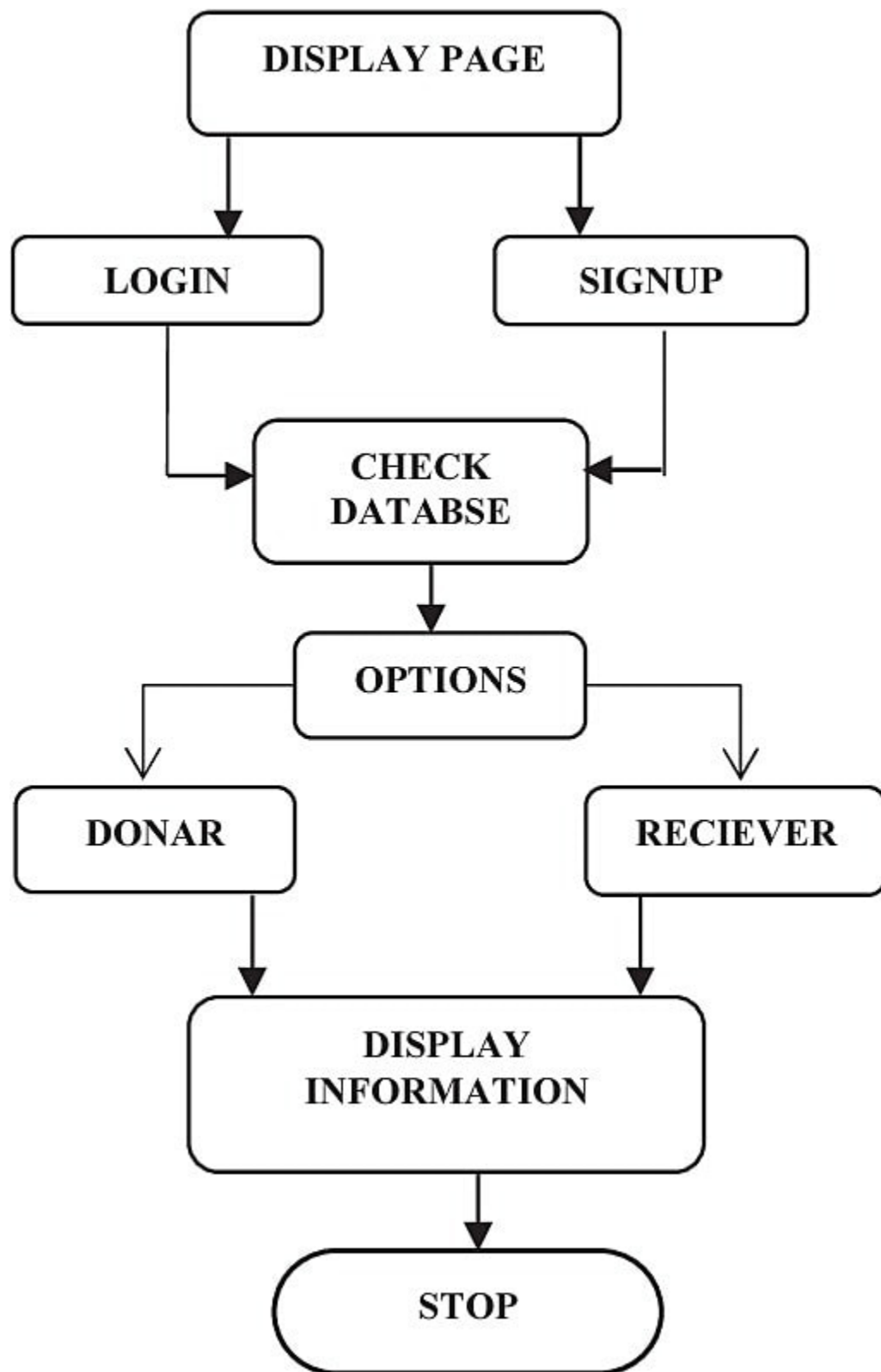
RAM: 4GB

Minimum Database Space: 10GB

Good Internet Connection

Windows 7 or higher

Flowchart :



Final Findings

The screenshot displays the PlasmaDonor application interface, which is a web-based system for managing donor information. The application is accessed via a web browser, and the URL is iacademy.oracle.com/ords/f?p=15533:2:2432164121333::NO::.

The interface features a sidebar menu with the following options: Home, Donor Registration, Search Donor, and Donor Data. The main content area is divided into two sections: 'Create Form' and 'Search Donor'.

Create Form Section:

This section contains a form for creating a new donor record. The fields are as follows:

- Email: abc@gmail.com
- Name: abc
- Phone: 657436
- City: hyderabad
- Infected: yes
- Blood Group: A+

A 'Cancel' button is located at the bottom left of the form, and a 'Create' button is at the bottom right.

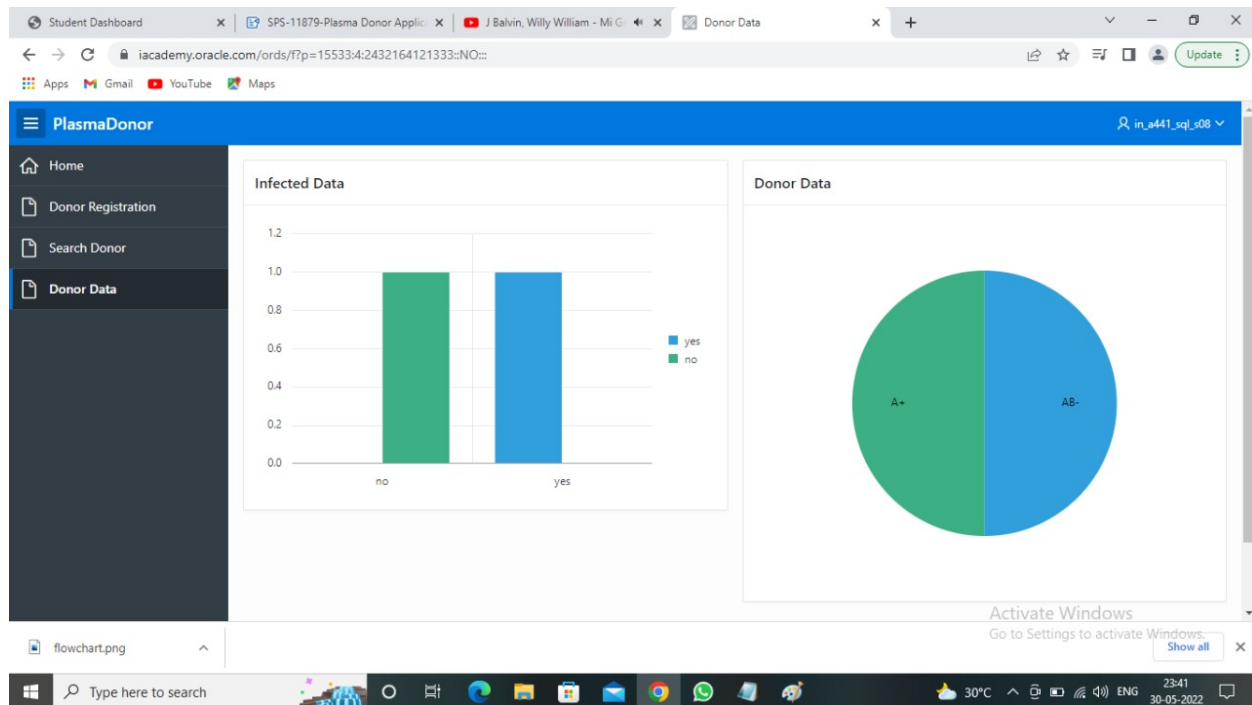
Search Donor Section:

This section displays a table of donor records. The table has the following columns: Email, Name, Phone, City, Infected, and Blood Group. The data is filtered by the search term 'cdb'.

Email	Name	Phone	City	Infected	Blood Group
cdb@gmail.com	cdb	557436	hyderabad	yes	A+
chf@gmail.com	akash			no	AB-

The table is sorted by the 'Name' column in ascending order. The 'Infected' column is highlighted in blue. The 'Blood Group' column is also highlighted in blue.

The application is running on a Windows operating system, as indicated by the taskbar and the 'Activate Windows' watermark.



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