REPORT OF DONATE PLASMA

PROJECT OF ORACLE APEX

BY

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SUBMITTED TO SMARTBRIDGE

ABSTRACT

During the COVID-19 crisis, the requirement for plasma became high and the donor count was low. Saving the donor information and helping the need by notifying the current donors would be helping hand. Regarding the problem faced, an application is to be built which would make the donor details, store them and inform them upon a request. We target the problem of managing the blood plasma available within areas and the patient count who are in need. Finding a plasma donor is a challenging issue in almost every country. So this plasma donor /requester finder application is built in a form to help different types of users including requester, donor and administrator.

CONTENTS

1. INTRODUCTION

1.1 Overview

With rapid increase in the usage of social networks sites across the world, there is also a steady increase in blood donation requests as being noticed in the number of posts on these sites such as Facebook and twitter seeking blood donors. There are some blood donor finder applications in the market such as Blood app by Red Cross. However, more reliable applications that meet the needs of users are prompted.

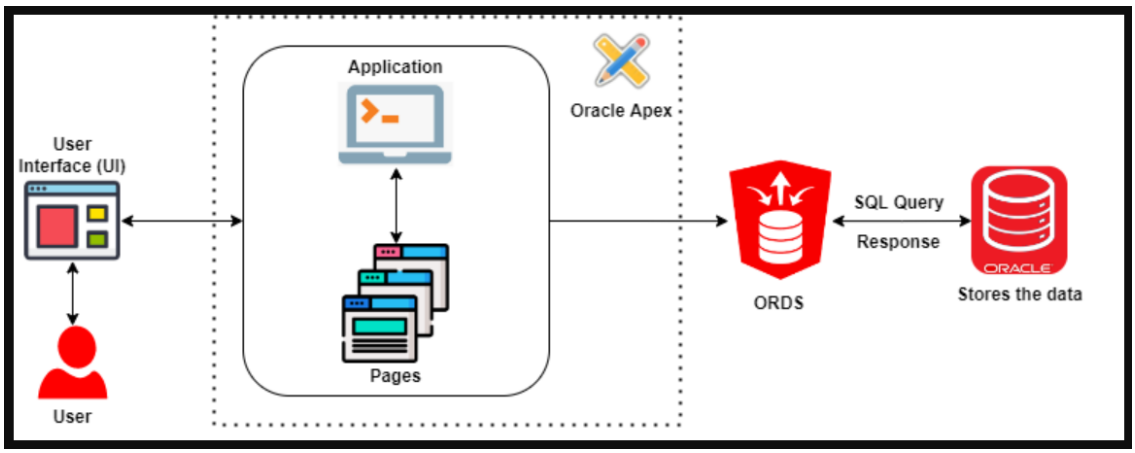
1.2 Purpose

If a patient needs a plasma at a clinic, plasma 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.

2. THEORITICAL ANALYSIS

The major contribution of Human Sciences in the understanding of the whole plasma donation behavior has been through the study of individuals' motivations and deterrents to donate.

2.1 Block diagram



However, if whole plasma donation has been very widely studied in the last two years, we still know very little about plasma donation in voluntary non-remunerated environments. Yet, the need for plasma-derived products has been strongly increasing for some years, and blood collection agencies have to adapt if they want to meet this demand. This application aims to review the main motivations and deterrents to whole plasma donation, and to compare them with those that we already know concerning plasma donation. Current evidence shows similarities between both behaviors, but also differences that indicate a need for further research regarding plasma donation.

Plasma collection centres should be located according to their accessibility from hospitals in order to improve the overall system performance. Moreover, centres are generally subject to regulatory control, designed to ensure the maximum quality and safety of blood products. They guarantee that blood bags are produced according to standardized procedures, to achieve consistency of each product.

2.2 Hardware/Software designing

Software Requirements

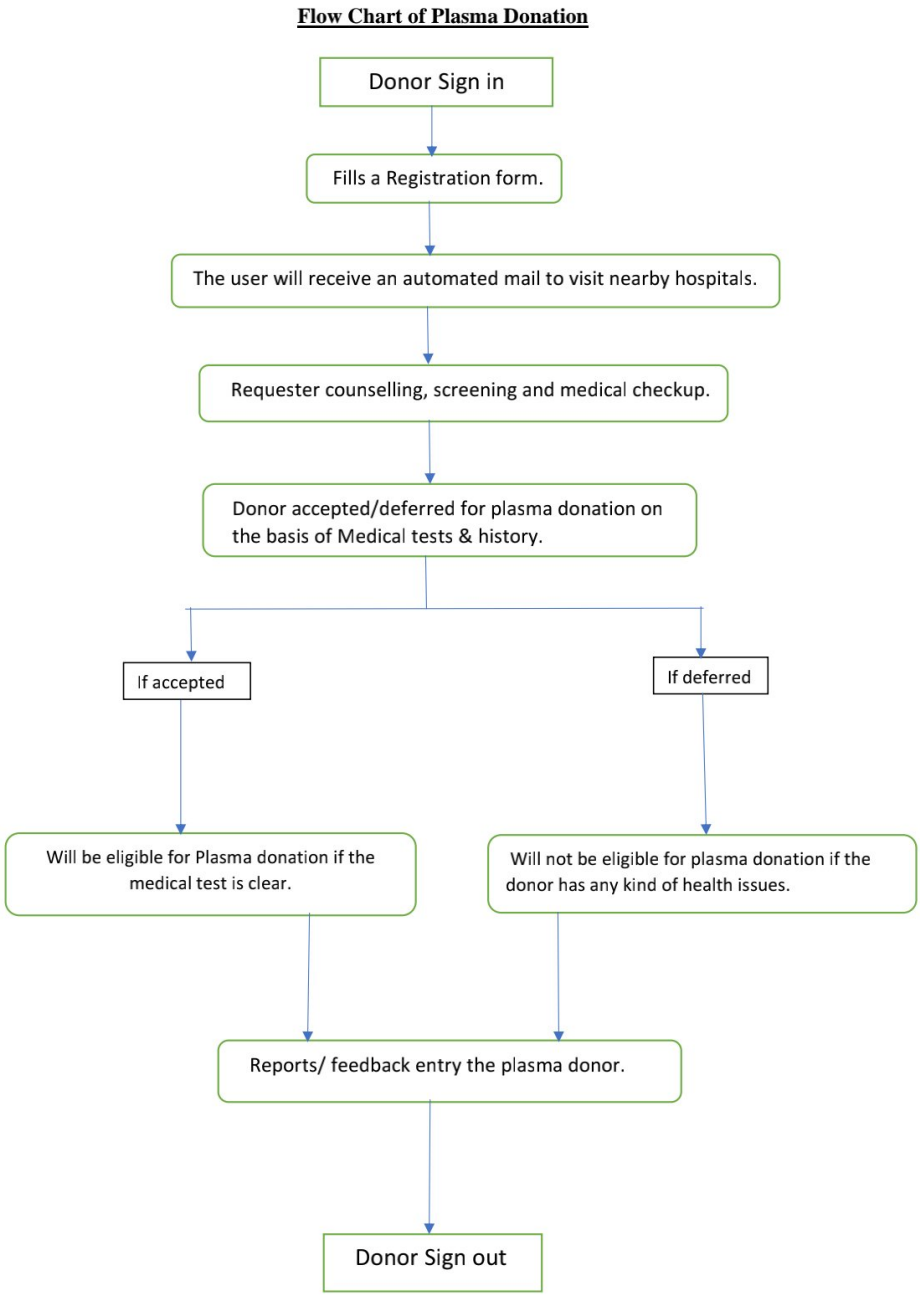
Oracle Application Express requires a Javascript-enabled browser and supports the current and prior major release of Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge.

Hardware Requirements

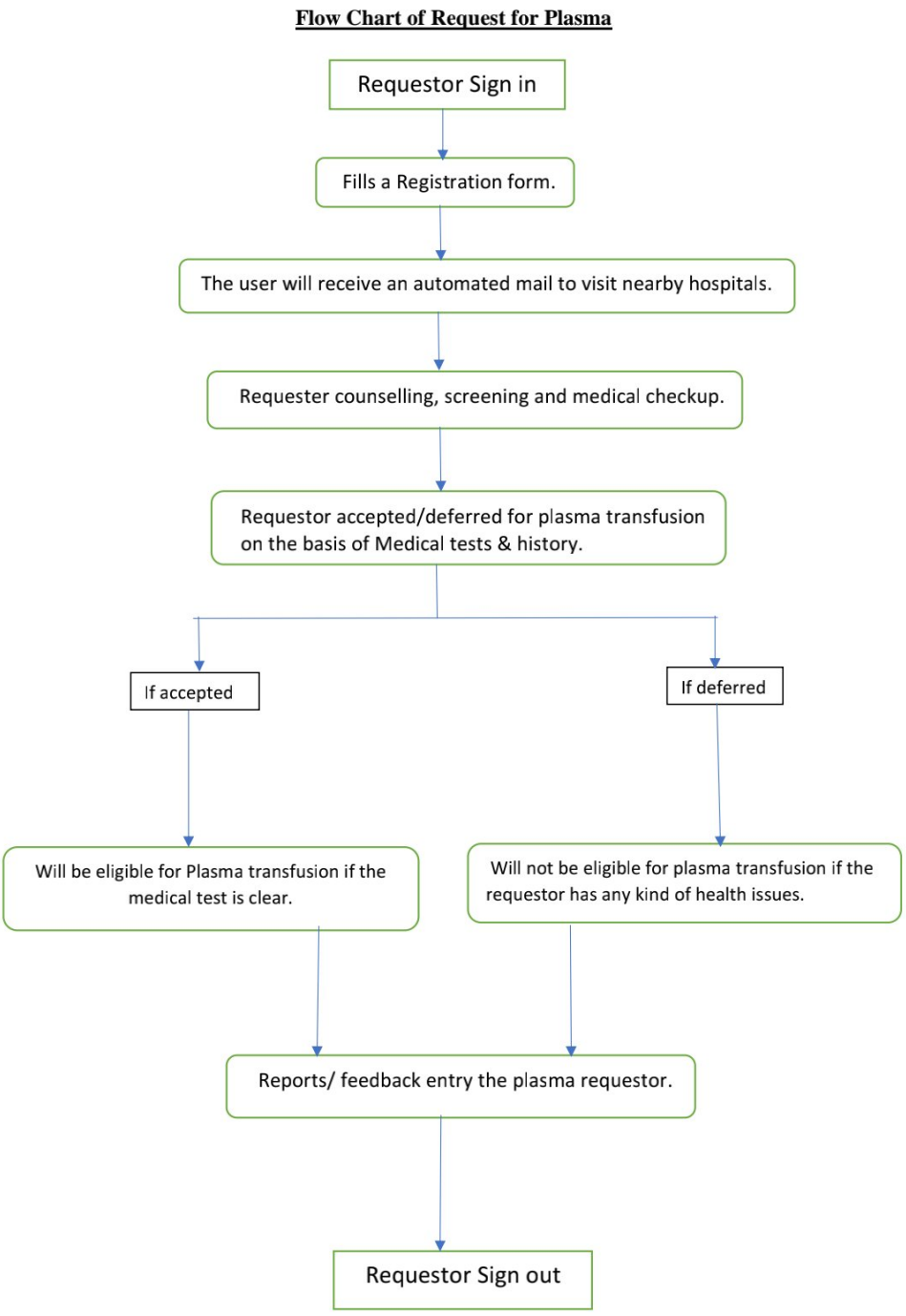
- Free space for Oracle Application Express software files on the file system: 450 MB.
- Free space in Oracle Application Express tablespace: 125MB.
- Free space in SYSTEM tablespace: 85MB.

3. FLOWCHART

3.1 FLOWCHART OF PLASMA DONOR REGISTRATION

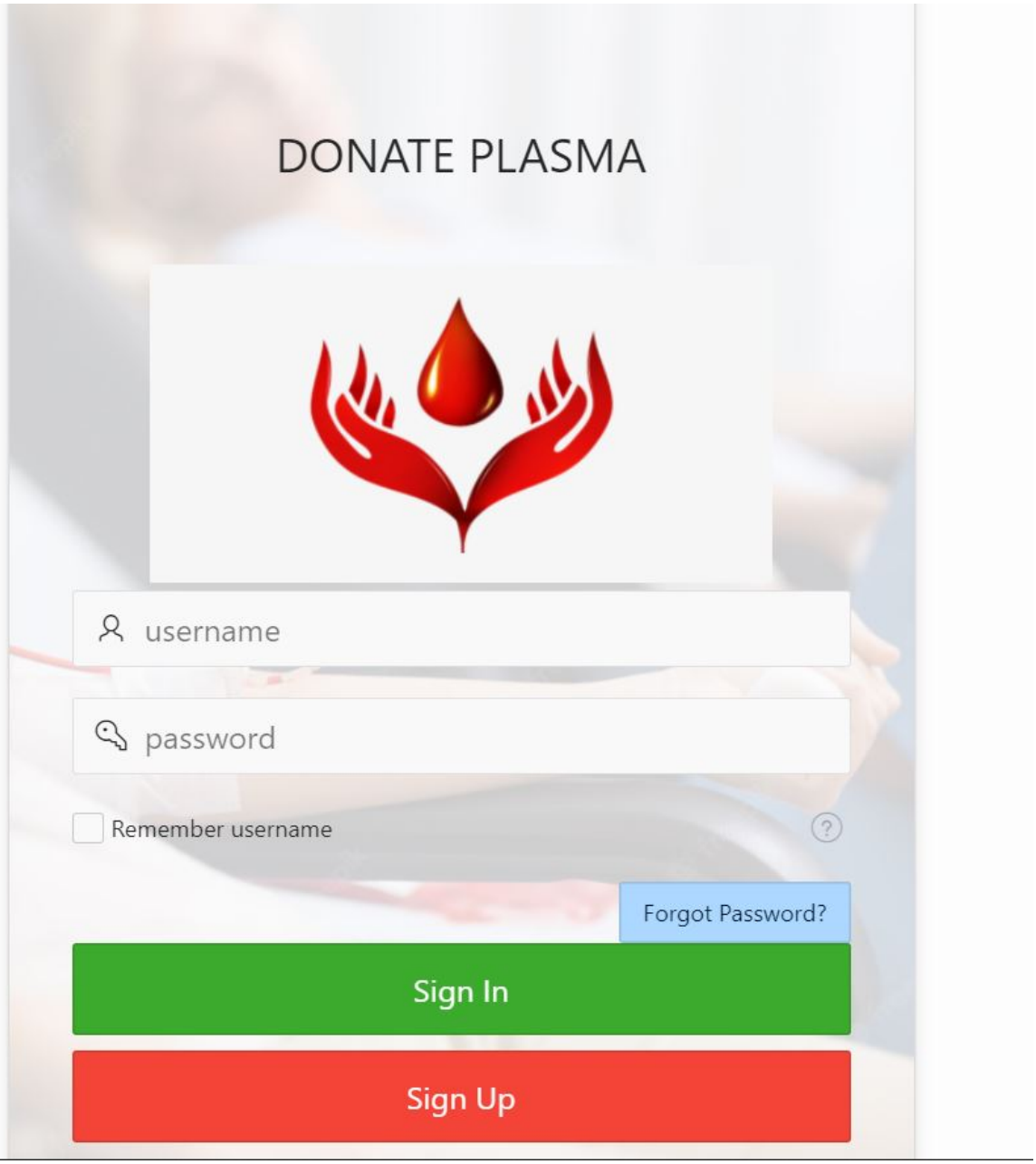


3.2 FLOWCHART OF PLASMA REQUEST

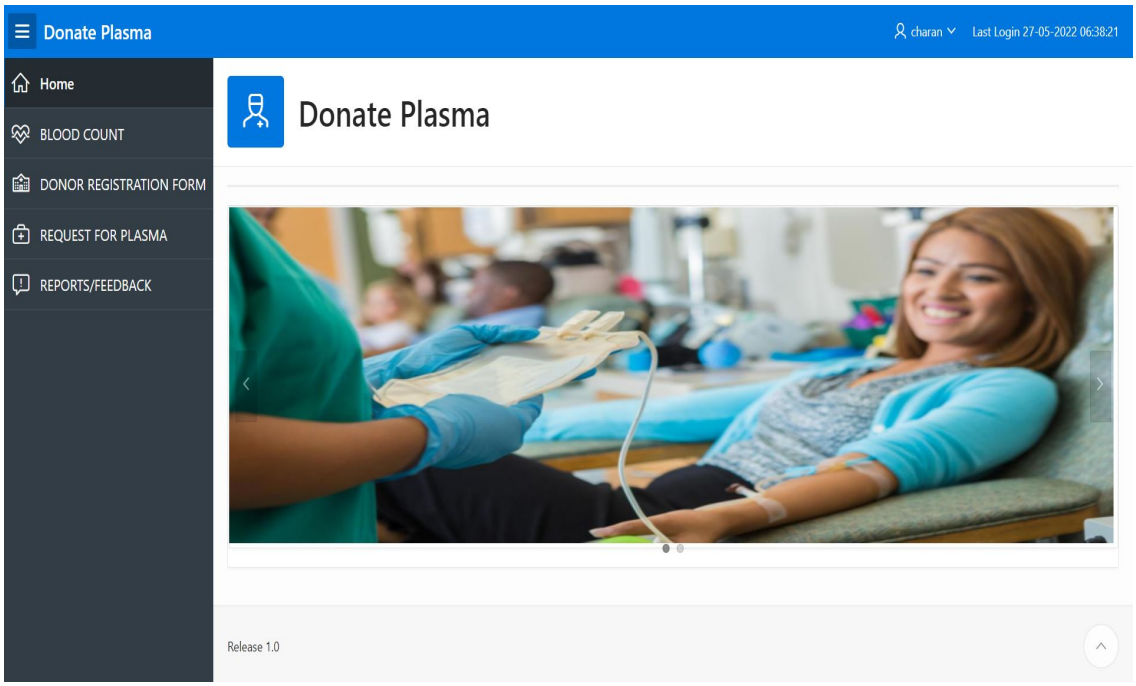


4.RESULT

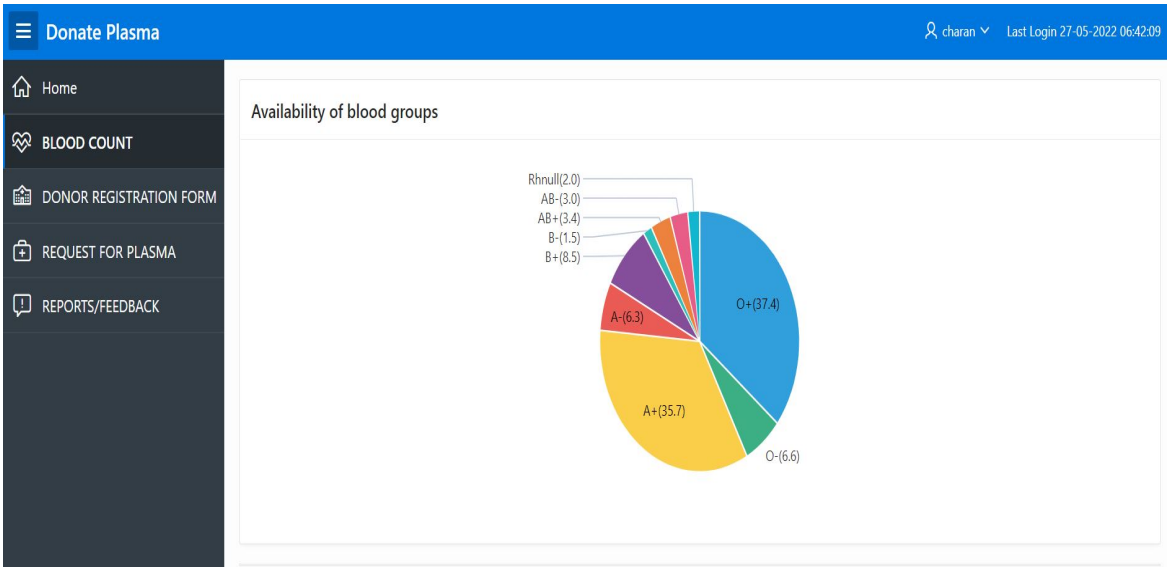
4.1 LOGIN PAGE

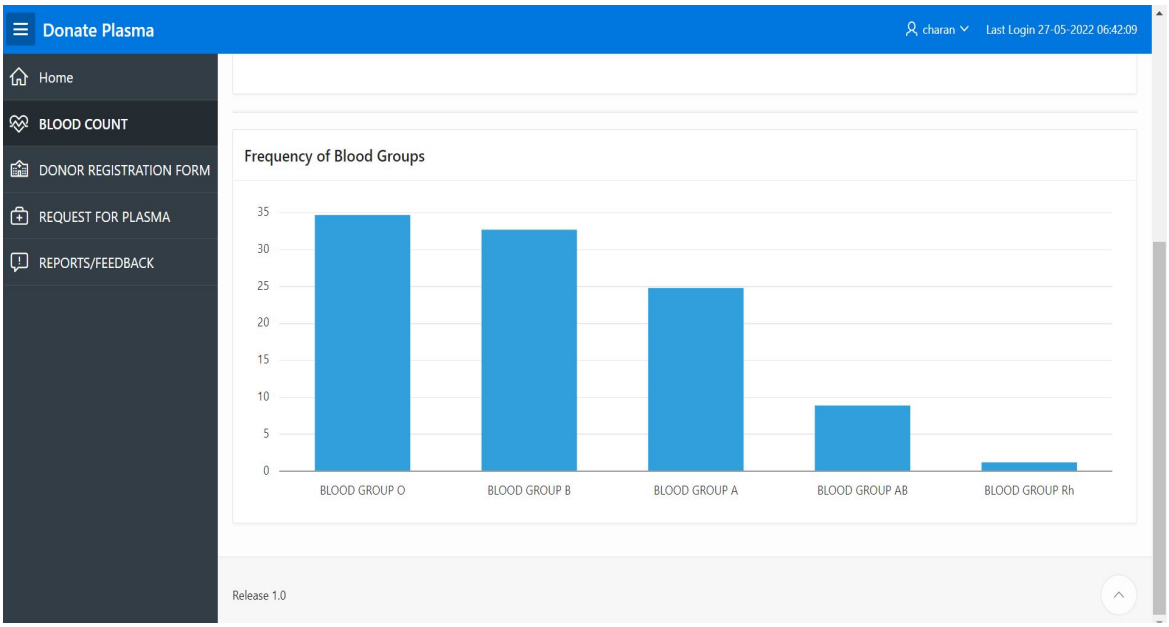


4.2 HOME PAGE

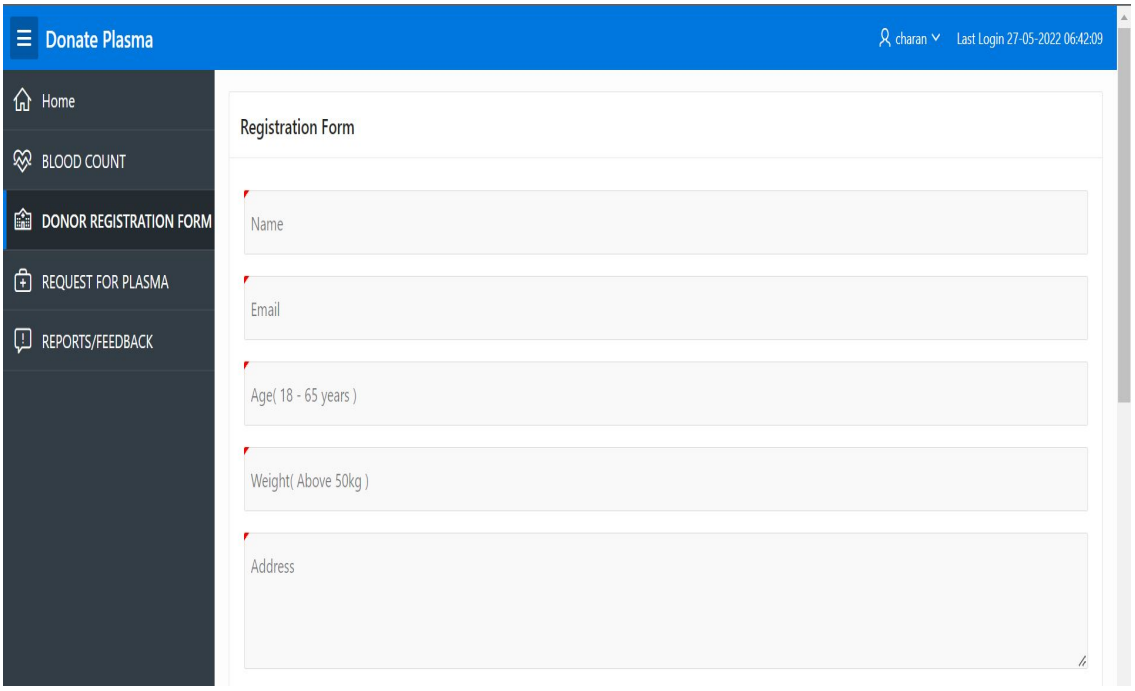


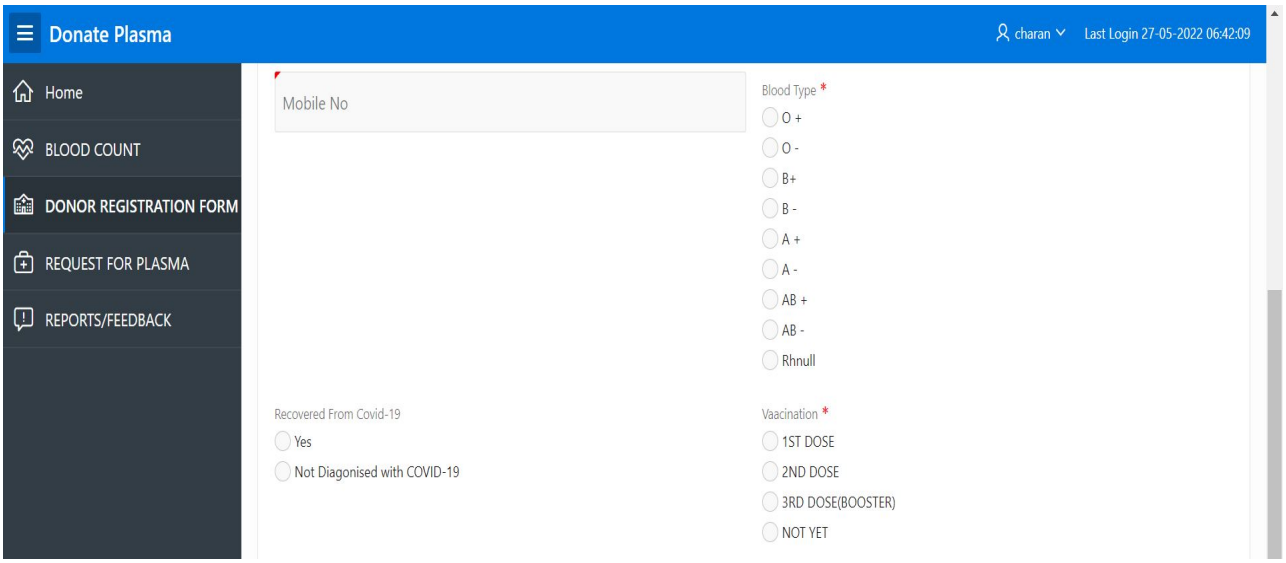
4.3 DASHBOARD

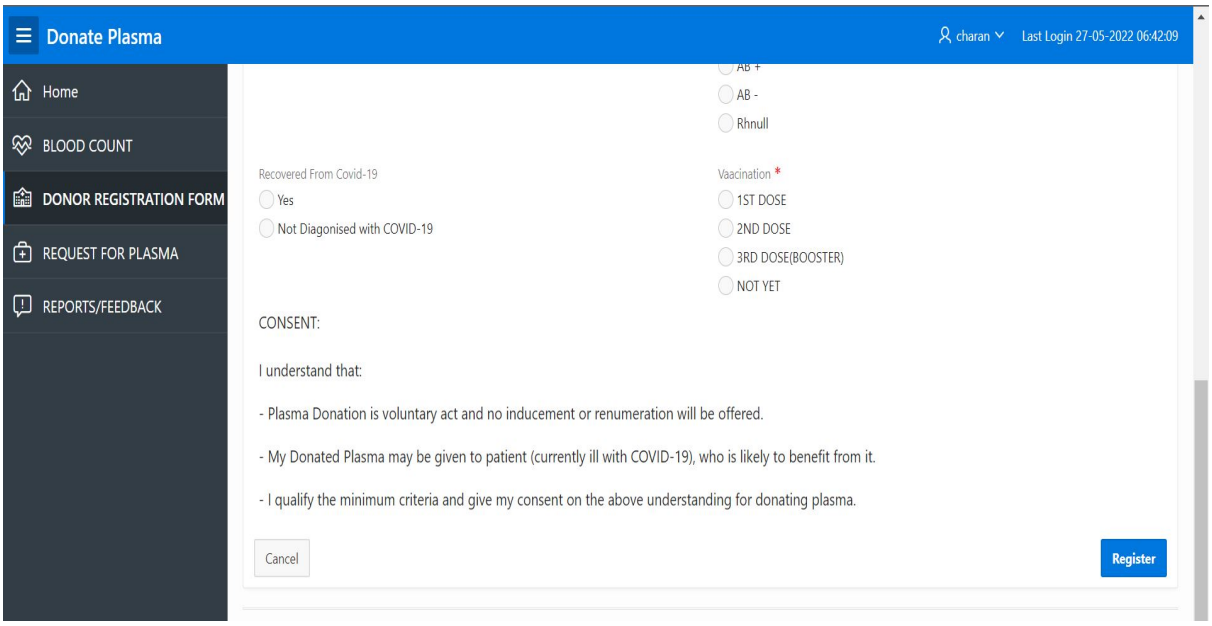




4.4 REGISTRATION PAGE




Donate Plasma
charan
Last Login 27-05-2022 06:42:09
Home
BLOOD COUNT
DONOR REGISTRATION FORM
REQUEST FOR PLASMA
REPORTS/FEEDBACK
Mobile No
Blood Type *
O +
O -
B+
B -
A +
A -
AB +
AB -
Rhnull
Recovered From Covid-19
Yes
Not Diagonised with COVID-19
Vaacination *
1ST DOSE
2ND DOSE
3RD DOSE(BOOSTER)
NOT YET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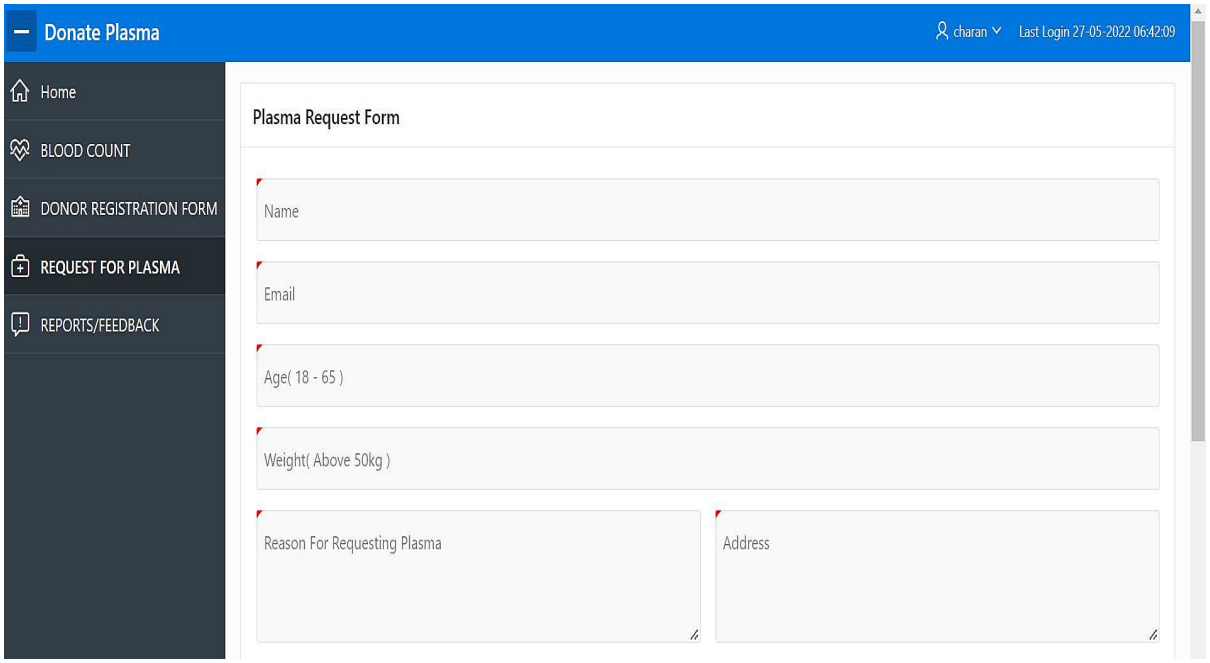
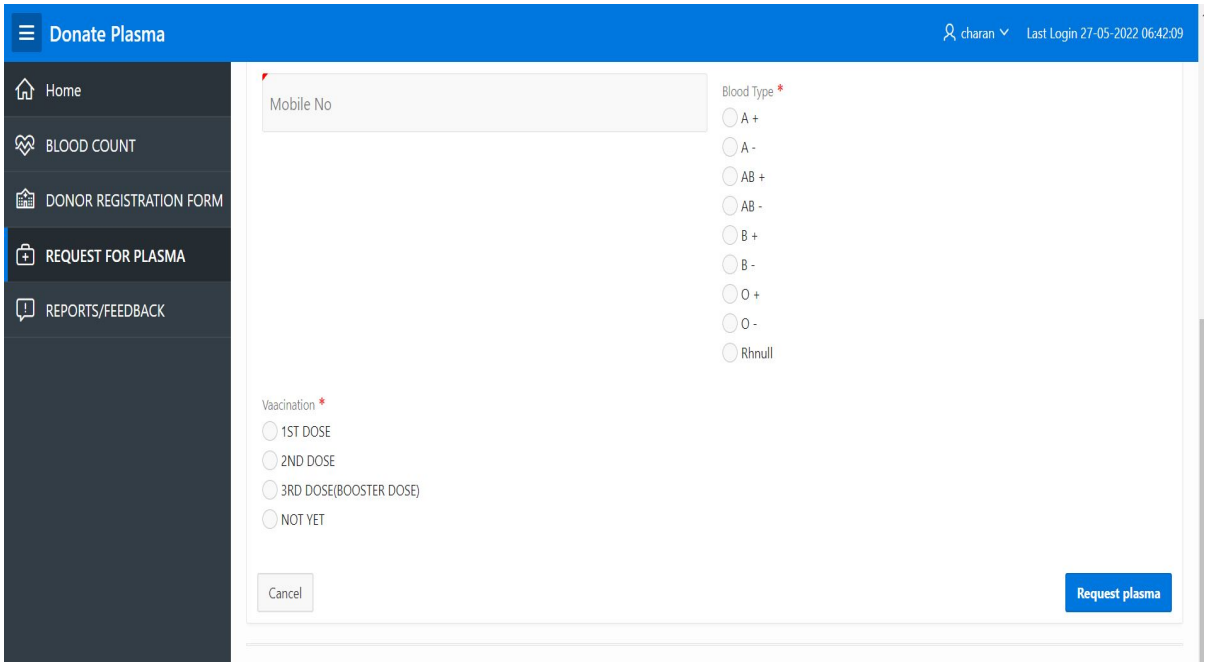
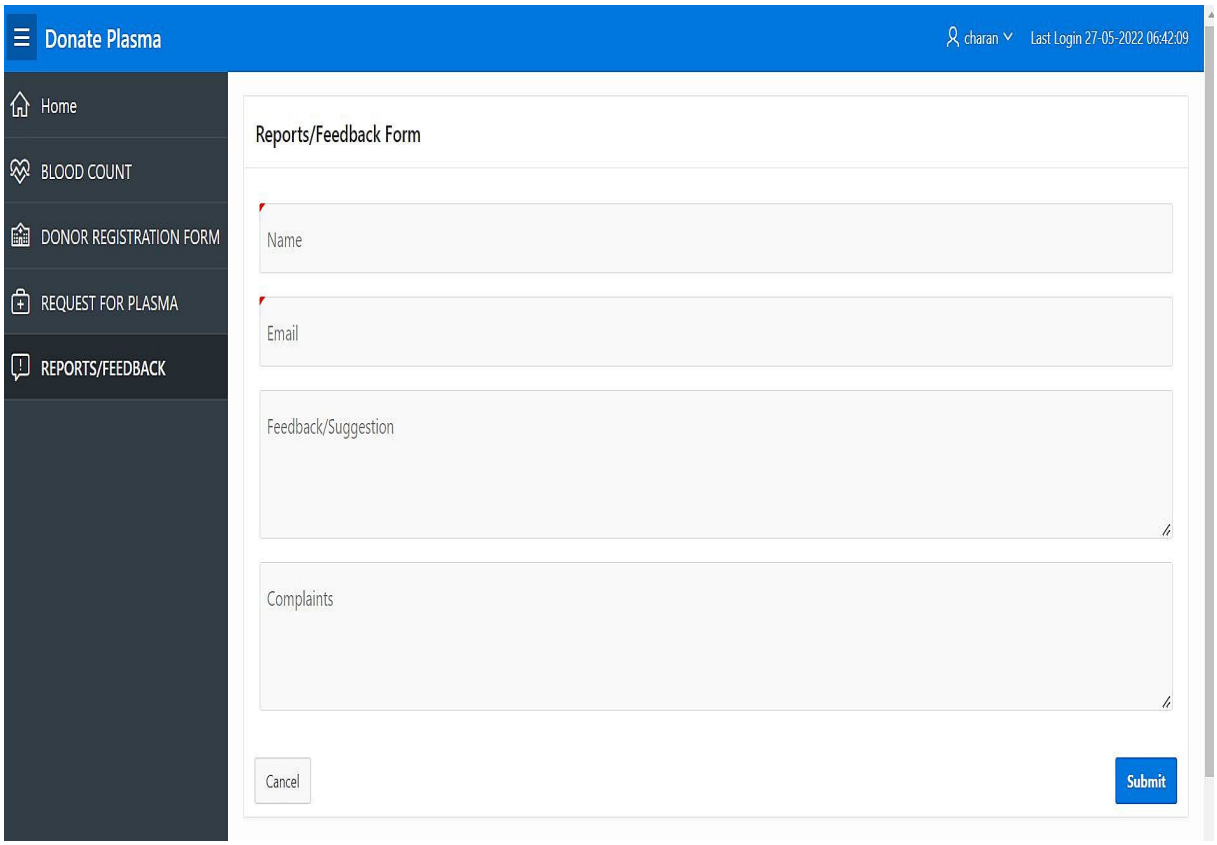
Not Diagonised with COVID-19
Vaacination *
1ST DOSE
2ND DOSE
3RD DOSE(BOOSTER)
NOT YET
CONSENT:
I understand that:
- Plasma Donation is voluntary act and no inducement or renumeration will be offered.
- My Donated Plasma may be given to patient (currently ill with COVID-19), who is likely to benefit from it.
- I qualify the minimum criteria and give my consent on the above understanding for donating plasma.
Cancel
Register

4.5 PLASMA REQUEST FORM





4.6 FEEDBACK FORM



5. ADVANTAGES AND DISADVANTAGES

5.1 Advantages

- A Better User Experience – With responsive design, it's a lot easier and user friendly across multiple platforms and various screen sizes.
- Client Secure Login – Impress clients with a modern web portal and improve customer service with automated processes.
- Easy Sign up/ Registration – It takes a few minutes to sign up .

5.2 Disadvantages

- Internet reliance – 4G & Wi-Fi internet access is available in many locations, if you are unable to connect , you will not be able to access the application.
- Reduced Speed – It's likely that a web application will operate at a slightly slower speed than one hosted on a server locally.

6. APPLICATIONS

Donate Plasma application provides a reliable platform to connect local Plasma donors with patients. Donate Plasma creates a communication channel through authenticated clinics whenever a patient needs plasma . It can be a useful tool to find compatible plasma donors who can receive plasma request posts in their local area. Clinics can use this web application to maintain the plasma donation activity.

7. CONCLUSION

In recent days, it is noticed the increase in plasma request posts on social media such as Facebook, Twitter, and Instagram. Interestingly there are many people across the world interested in donating plasma when there is a need, but those donors don't have an access to know about the plasma donation requests in their local area. This is because that there is no platform to connect local plasma donors with patients. DONATE PLASMA solves the problem and creates a communication channel through authorized clinics whenever a patient needs plasma donation.

8. FUTURE SCOPE

Enhancements that can be made in future

With slight modifications we can make this application easy to operate and user friendly . This "DONATE PLASMA" can be developed to meet the requirements of modern day system operation, new options and their respective roles will be applied and implemented.

9. APPENDIX

A. source code for donor registration

```
CREATE TABLE  "USER_DATA_3"
  (       "NAME" VARCHAR2(50) NOT NULL ENABLE,
          "EMAIL" VARCHAR2(60) NOT NULL ENABLE,
          "AGE" VARCHAR2(4) NOT NULL ENABLE,
          "ADDRESS" VARCHAR2(100) NOT NULL ENABLE,
          "WEIGHT" VARCHAR2(4) NOT NULL ENABLE,
          "AADHAR_NUMBER" VARCHAR2(15),
          "BLOOD_TYPE" VARCHAR2(10) NOT NULL ENABLE,
          "MOBILE_NO" VARCHAR2(15) NOT NULL ENABLE,
          "VAACINATION" VARCHAR2(15) NOT NULL ENABLE,
          "RECOVERED_FROM_COVID-19" VARCHAR2(6)
  )
/
```

B. source code for requesting plasma

```
CREATE TABLE  "USER_DATA_4"
  (       "NAME" VARCHAR2(50) NOT NULL ENABLE,
          "EMAIL" VARCHAR2(60) NOT NULL ENABLE,
          "AGE" VARCHAR2(4) NOT NULL ENABLE,
          "ADDRESS" VARCHAR2(100) NOT NULL ENABLE,
          "WEIGHT" VARCHAR2(4) NOT NULL ENABLE,
          "AADHAR_NUMBER" VARCHAR2(15),
          "BLOOD_TYPE" VARCHAR2(10) NOT NULL ENABLE,
          "MOBILE_NO" VARCHAR2(15) NOT NULL ENABLE,
          "VAACINATION" VARCHAR2(15) NOT NULL ENABLE,
          "REASON_FOR_REQUESTING_PLASMA" VARCHAR2(400) NOT NULL ENABLE
  )
/
```