



PLASMA DONOR APPLICATION
A NAALAIYA THIRAN` PROJECT REPORT
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(An ISO 9001: 2015 Certified Institution)

(Accredited by NAAC with 'A' Grade)

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NOVEMBER, 2022

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

This is to certify that the project entitled Plasma Donor Application is the bonafide record of a Nalaiya Thiran work done by DURGA.P(611819104013),LOKESHWARI.J (611819104025), SANDHYA (611819104036),VAISALI.S(611819106055) who carried out the research under my supervision.

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ACKNOWLEDGEMENT

At this pleasing moment of having successfully completed my Project, I wish to convey our sincere thanks and gratitude to the management of our college and our beloved Chairman, **Dr. P. SELVAM, M. A, B.Ed., Ph.D., D. Litt**, who provided all the facilities to me.

I would like to express my sincere thanks to my beloved Principal **Dr. P. LAWRENCE M.E., Ph.D.**, for forwarding us to do our project and offering adequate duration in completing my project.

I also express my sincere thanks to **Prof.B.SAKTHIVEL M.E.,(Ph. D)**., Head of the Department of Computer Science and Engineering for providing all the facilities in the successful completion of my project.

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Last but not least the whole thing will be incomplete if we don't acknowledge our beloved **PARENTS** who are everything for us.

DURGA.P

LOKESHWARI.J

SANDHYA.S

VAISALI.S

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ABSTRACT

This project is aimed to develop an online plasma donor information. During COVID19 crisis, the requirement of plasma became a high priority, and the donor count has become low. Saving the donor information and helping the needy by notifying the current donors list, would be a helping hand. Regarding the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request. The plasma donation agent is to create an e-information about the donor and the organization that are related to donating plasma. Through this application any person who is interested in donating the plasma can register himself in the same way if any organization wants to register itself with this site also register. Moreover, if any general consumer wants to make request plasma online, he can also take the help of this application and then the concerned blood group donors will get notified about it through email.

At the emergency time of blood needed we can check for blood donor nearby by using GPS. Once the app user enters the blood group which he/she needed it will automatically show the donor nearby and send an alert message to the donor. The project has been planned to be having the view of distributed architecture with centralized storage of the database. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff. This project aims to review the main motivation and determination and deterrents to whole blood donation, and to compare them with those that we already know concerning plasma donation.

Key words: Plasma, Donors, Blood Group.

CHAPTER 1

INTRODUCTION

The main goal of our project is to design a user-friendly web application that is like a scientific vehicle from which we can help reduce mortality or help those affected by COVID19 by donating plasma from patients who have recovered without approved antiretroviral therapy planning for a deadly COVID19 infection, plasma therapy is an experimental approach to treat those COVID-positive patients and help them recover faster. Therapy, which is considered reliable and safe. If a particular person has fully recovered from COVID19, they are eligible to donate their plasma.

1.1 OBJECTIVE:

The of the project is to develop a web application for plasma banks to manage information about their details

1. To maintain records of plasma donors, plasma donation information and plasma stocks in a centralized database system.
2. To support searching, matching and requesting for plasma.
3. To provide a function to send an e-mail directly to the donor for their user account and the hospital, the availability of the plasma

1.2 PURPOSE :

The main of the application is that, the donor who wants to donate plasma can simply upload COVID-19 traced certificate and can donate the plasma to the blood bank

The blood bank can apply for the donor and once the donor as accepted the request, the blood bank can add the units they need and the hospital.

CHAPTER 2

LITERATURE SURVEY

2.1 EXISTING PROBLEM

People have to find them physically by visiting hospitals register book and reaching out recovered donors' home and sometimes they will be not available at their places and will be went on work.

In this type of scenarios, diseased persons health gets more worsened. This is an expensive and will not work as effectively at emergency situations Several experiments have been carried out over the years by different groups of researchers.

2.2 REFERENCES

[1] Denuis O'Neil (1999). "Blood component" Archived from the original on June 5, 2013. Normally, certain amount of human body weight comes from blood. For adults, it is 4-6 litres of blood. This essential liquid plays an important role in transporting oxygen and nutrients to cells and removing carbon dioxide, ammonia, and other waste products. Blood 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 you 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

2.3 PROBLEM STATEMENT DEFINITION

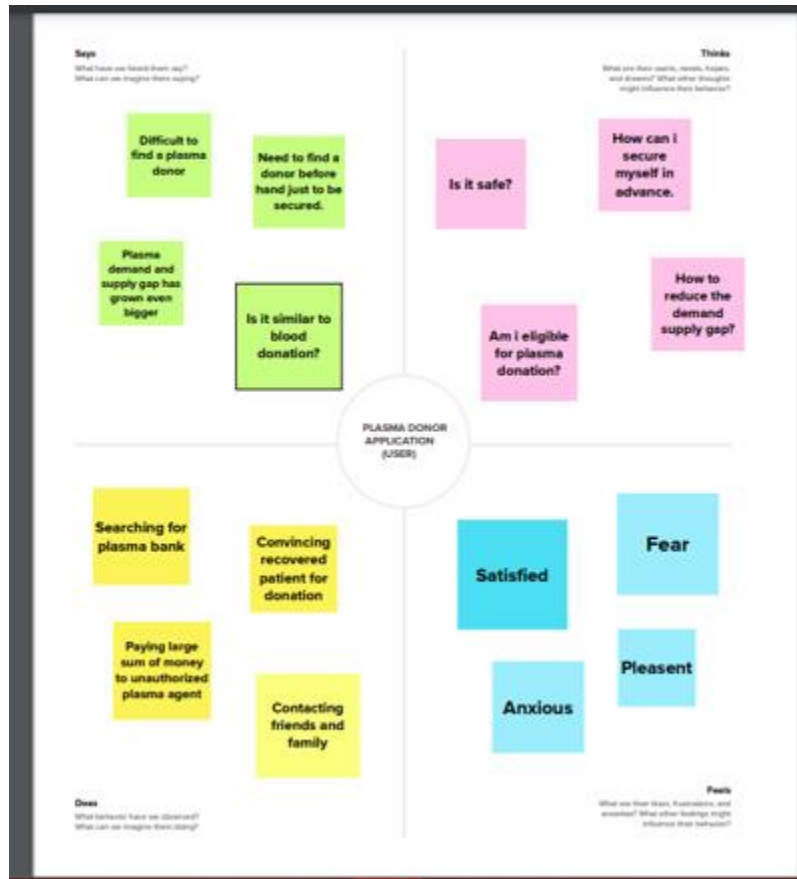


S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	During covid 19 crisis the requirement for plasma increased drastically as there were no vaccination found to treat the infected patients. In such situation it was very difficult to find the plasma donor .AS the plasma therapy was to treat the infected patients getting the donor details played a major role.
2.	Idea / Solution description	<ul style="list-style-type: none"> ❖ A better solution is to use the application which mobile device is very popular with people too. ❖ This application is providing each entity the facility to approach the nearby plasma donors so it will become much easier to search the plasma donors in the hour of need. ❖ The very friendly design will lead the user to every module very easily without any difficulty.
3.	Novelty / Uniqueness	We store all the enough necessary user information on the cloud so it could be secured and checking, verifying its originality.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ❖ Plasma Donors can be identified easily using the information of the donors. ❖ It is useful application to find compatible plasma donors. ❖ The application is helpful for to get the plasma from the nearest location and nearby hospitals also.
5.	Business Model (Revenue Model)	The hospital who uses this application can be eligible to claim their revenue from the government as there are only storing the plasma from the donor. Also, the donor should be paid by the government.

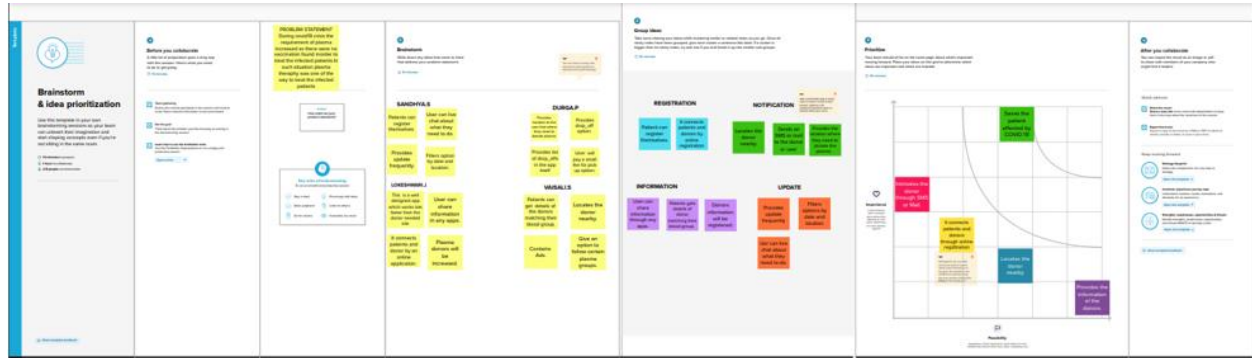
CHAPTER 3

IDEATION & PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS :



3.2 IDEATION AND BRAIN STORMING:



3.3 PROPOSED SOLUTION:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	During covid 19 crisis the requirement for plasma increased drastically as there were no vaccination found to treat the infected patients. In such situation it was very difficult to find the plasma donor .AS the plasma therapy was to treat the infected patients getting the donor details played a major role.
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3.	Novelty / Uniqueness	We store all the enough necessary user information on the cloud so it could be secured and checking, verifying its originality.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ❖ Plasma Donors can be identified easily using the information of the donors. ❖ It is useful application to find compatible plasma donors. ❖ The application is helpful for to get the plasma from the nearest location and nearby hospitals also.
5.	Business Model (Revenue Model)	The hospital who uses this application can be eligible to claim their revenue from the government as there are only storing the plasma from the donor. Also, the donor should be paid by the government.

3.4 PROBLEM SOLUTION FIT:

Define CS, fit into CC	1.CUSTOMER SEGMENT: <ul style="list-style-type: none"> 1.Patient/Receiver. 2.Donor. 	2.CUSTOMER CONSTRAINTS : During COVID 19 crisis where there were no vaccination plasma therapy was implemented. COUSTOMER CONSTRAINTS: <ol style="list-style-type: none"> 1.Lack of plasma donors. 2.Lack of awareness. 	5. AVAILABLE SOLUTION: Plasma donors' details must be stored to make the donation process easier. Donors need to be connected to a common platform.	Explore AS, differentiate
------------------------	--	---	--	---------------------------

Focus on J&P, tap into BE.	2.JOBS TO BE DONE: <ol style="list-style-type: none"> 1.Proper instructions must be given to the donors. 2.Donors details must be stored so that receiver can access the application easily to get the plasma. 3.Quick response to the receivers. 	9.PROBLEM ROOT: <ol style="list-style-type: none"> 1.Lack of knowledge among the people to donate plasma. 2.People did not come froward to donate the plasma. 3.Technical issues. 4.Commucation problems between donor and the receiver. 	7.BEHAVIOUR: <ol style="list-style-type: none"> 1. Finds the suitable donor. 2. The receiver can search their blood group based on donors' information. 	Focus on J&P, tap into BE.
----------------------------	---	---	--	----------------------------

Identify strong TR & EM	3. TRIGGERS TR This application will trigger the people to use whenever they want because of the eco- friendly features of this application.	10. YOUR SOLUTION SL This application will be connected to different blood donating sites which will help the patients to get plasma on time. It will provide all the entity and the facility to approach nearby blood donors so that it will become much easier to search rare blood groups in an hour of need.	8. CHANNELS of BEHAVIOUR CH The user needs to login and register with the details. They can then search for the plasma they want. They can also search for the nearest plasma donors using these details.
	4. EMOTIONS: BEFORE / AFTER EM BEFORE: Donors were afraid to donate plasma and they were depressed. AFTER: Donors are satisfied and happy after donating plasma. It became much easier for the donors to donate the plasma through our application		

CHAPTER 4

Requirement analysis:

4.1 Functional requirement:

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Email and Social media accounts
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login through registered email id
FR-4	User Examination	Medical Examination before donating
FR-5	Recipient Request	The recipient makes request for blood type for plasma
FR-6	Donor Request Alert	The Donor gets alerted through email
FR-7	Closed Request Verification	Donor gets an e-certificate and rewards once donation is completed
FR-8	Videos and Donation camps	Users can look up the benefits of plasma donation and information related
FR-9	Chat Assistant	Helps to solve queries related to donation within the app

4.2 Non Functional requirement :

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	This app is easy to use, easy to learn and navigate. Tasks such as booking a donation appointment could be completed in few steps and no instructions and training are required and this app is usable by people of all age group.
NFR-2	Security	This is a secure web application plus a secure database system that provides a safe environment for patients, doctors and transplant centres to create online profile for patients seeking living donors of plasma. Fake login and bots are carefully removed.
NFR-3	Reliability	All information that the user enters into the app is voluntary and the user can cease the usage at any time and delete their profile. If the user has shared any information through social network portals, it can also be removed. This app creates a friendly bond with the donors.
NFR-4	Performance	There is no lag during usage and the user can experience a glitch free usage. The user also gets route and tips on how to travel conveniently to the donation point.
NFR-5	Availability	This App will be available on Google Play store and App Store and also in web.
NFR-6	Scalability	This App has ability to handle multiple donors at a time and provides users with good user experience and reacts fast according to growing number of requests.

CHAPTER 5

Project design

5.1 Dataflow diagram:

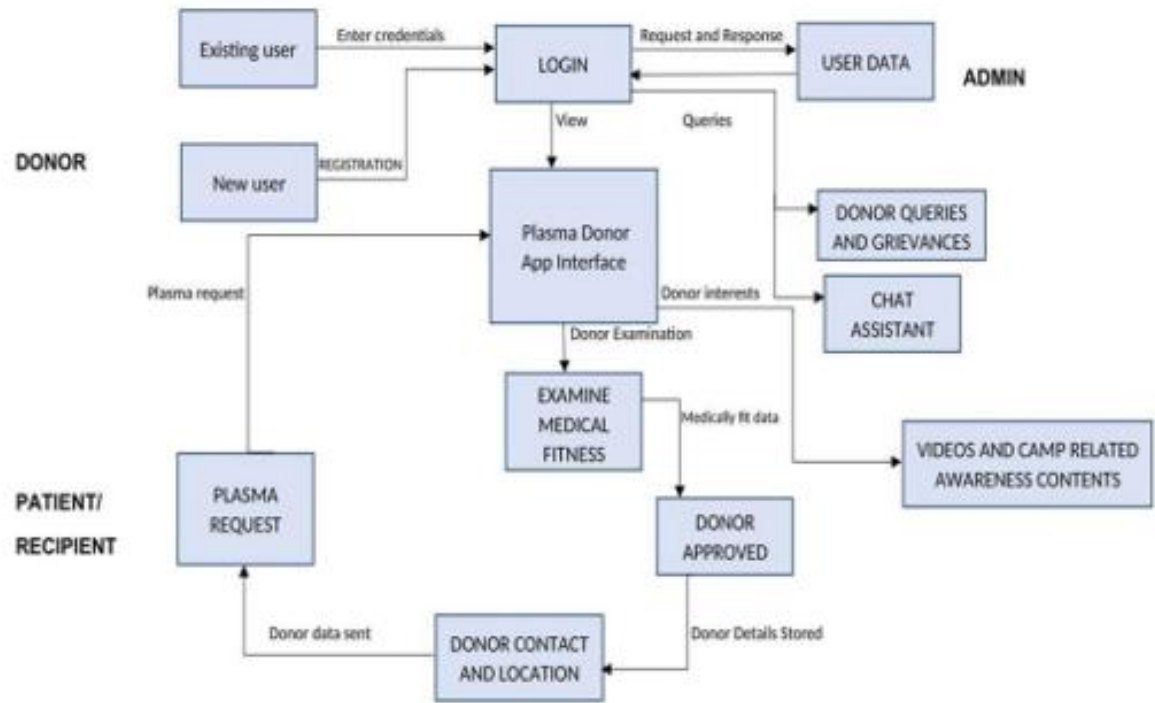
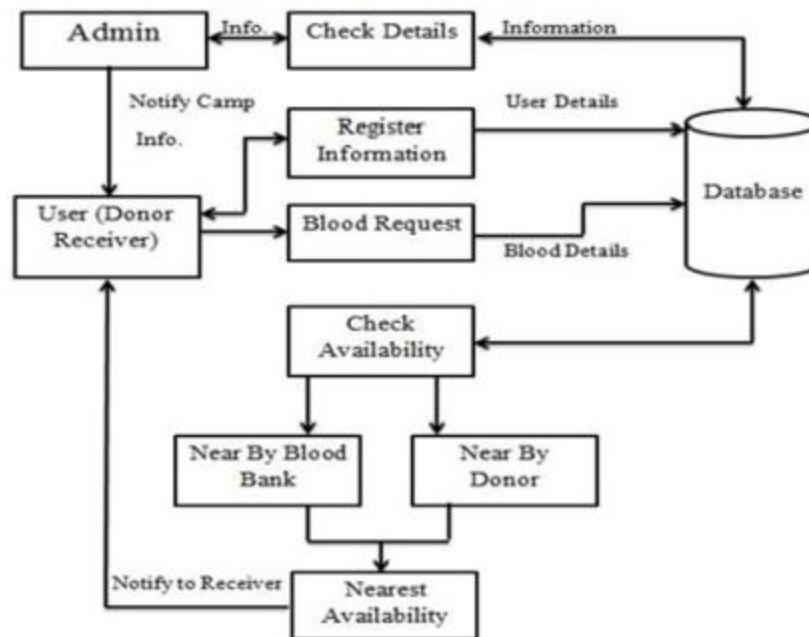


FIG 5.1 Data flow diagram

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behaviours, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed.



5.2 Technical architecture:

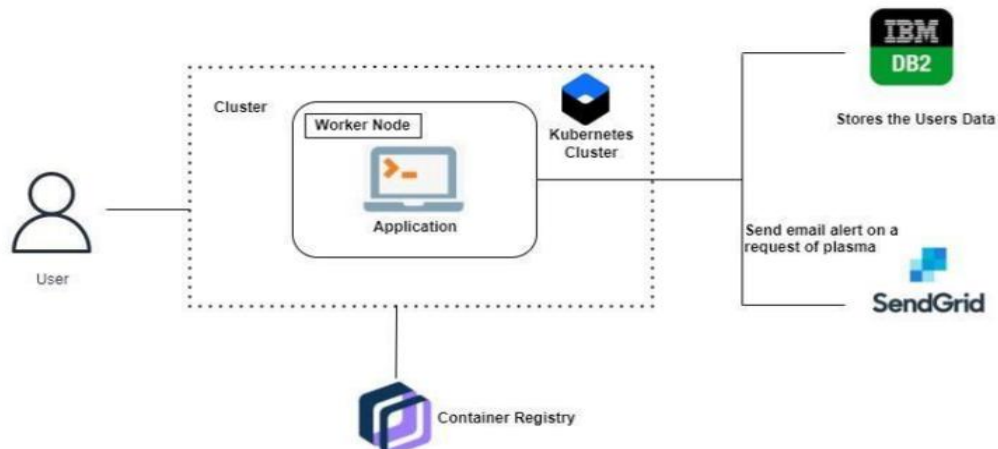


FIG 5.2 Solution and Technical Architecture

5.3 User stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	User can register for this application by entering their email id, password, and confirming their password.	User can access their account / dashboard	High	Sprint-1
	Confirmation	USN-2	User will receive confirmation email once they have registered for the application	User will receive the confirmation mail in the registered mail id & click confirm	High	Sprint-1
	Access application	USN-3	User can register for the application through application website	User can register & access the application in their available devices	Low	Sprint-2
	Registration Gmail	USN-4	User can register for the application through Gmail	User can receive successful registration Gmail	Medium	Sprint-1
	Login	USN-5	User can login through the application by email and password	User can enter into application successfully by applying valid email and password	High	Sprint-1
Customer (Web user)	Access Website	USN-6	Capable to access web application through an browser	User can access webapplication	Medium	Sprint-1
	Search for donor	USN-7	Search result can be viewed in a list	User can view list represents a specific donor with donor details	High	Sprint-1
Customer Care Executive	Software Operator	USN-8	User should be able to register through application. Donor must provide username, gender, blood group, location, contact.	The user's response surprised us positively	High	Sprint-1
	View request	USN-9	The customer care executive should be able to view received request and then respond to them	User can receive the request response immediately	High	Sprint-1
Administrator	Maintenance	USN-10	Admin can access, view, modify, update all details of the plasma donor application	Admin is the authorized person of the overall application.	High	Sprint-1

CHAPTER 6

6.1 Sprint Planning & Estimation:

Sprint-3	Search for donor	USN-4	I can view list represents a specific donor with donor details	8	Medium	VAISALI.S,LOKESHWARI.J
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	13	High	VAISALI.S,SANDHYA.S
Sprint-2	Dashboard	USN-6	As a user, I can log in into the application and view the dashboard for plasma information's.	8	Medium	LOKESHWARI.J,DURGA.P
Sprint-2	Notification	USN-7	As a user,I can get notifications after register for plasma donation/need.	13	High	LOKESHWARI.J,SANDHYA.S VAISALI.S
Sprint-3	Database	USN-8	Admin can access, view, modify, update all details of the plasma donor application	20	High	LOKESHWARI.J,VAISALI.S, SANDHYA.S,DURGA.P
Sprint-4	Software testing And deployment	USN-9	As user want to access the application without any drawbacks we need to test the software before release.	13	High	LOKESHWARI.J,SANDHYA.S, DURGA.P,VAISALI.S

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
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Product Backlog, Sprint Schedule, and Estimation (4 Marks)

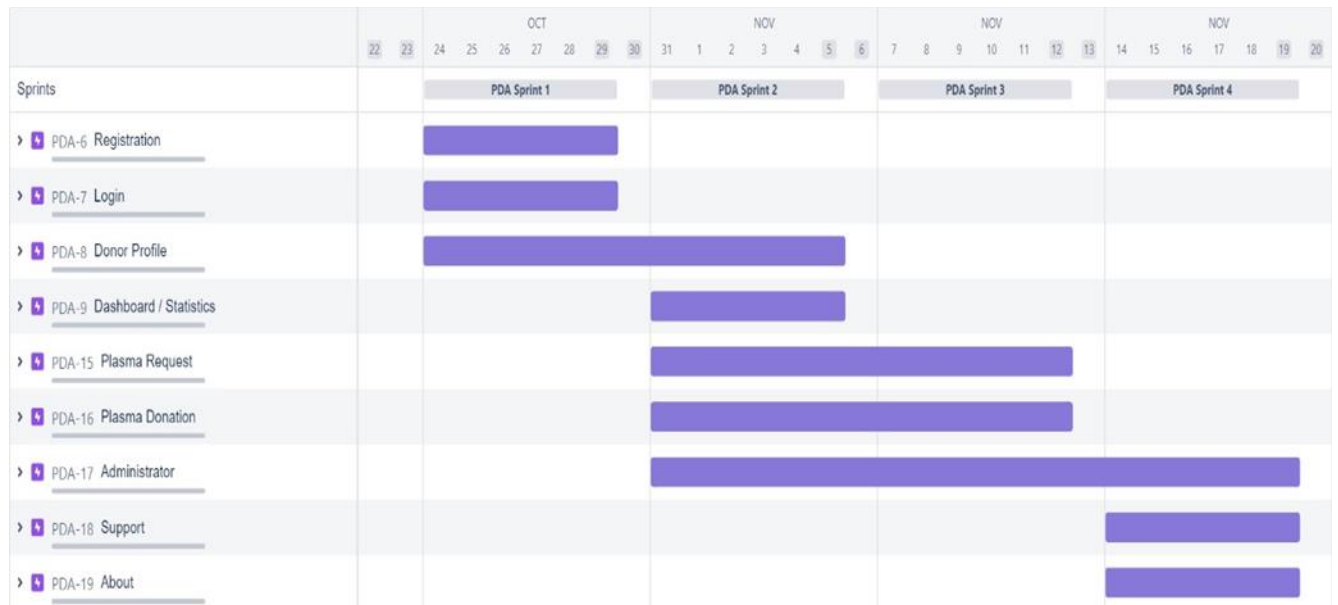
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	12	High	DURGA.P,SANDHYA.S VAISALI.S
Sprint-2	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	10	High	DURGA.P,LOKESHWARI.J VAISALI.S
Sprint-1	Registration through Google account	USN-3	As a user, I can register for the application through google account	8	Low	DURGA.P,VAISALI.S

6.2 Milestone and activity list:

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring the, technical papers, research publications etc.	26 SEPTEMBER 2022
Prepare Empathy Map	Prepare Empathy Map in mural to capture the user Pains & Gains, Prepare list of problem statements	22 SEPTEMBER 2022
Ideation	Organizing the brainstorming session and prioritize the top 4 ideas based on the feasibility & importance.	30 SEPTEMBER 2022
Proposed Solution	Prepare the proposed solution document, which includes the problem statement, idea, novelty, business model, social impact, scalability of solution	16 OCTOBER 2022

Problem Solution Fit	Prepare problem - solution fit document.	16 OCTOBER 2022
Solution Architecture	Prepare solution architecture document.	17 OCTOBER 2022
Customer Journey	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	20 OCTOBER 2022
Functional Requirement	Prepare the functional requirement document.	19 OCTOBER 2022
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	19 OCTOBER 2022
Technology Architecture	Prepare the technology Architecture diagram.	20 OCTOBER 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	26 OCTOBER 2022
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	WORK IN PROGRESS

6.3 REPORTS FROM JIRA



CHAPTER 7

Coding and solutioning

Code:

```

sendgridmail
import sendgrid
import os

from sendgrid.helpers.mail import *

api_key = "SG.XetJv3WqSfyN2Jx_PYI3YQ.QdmtXUQpcTpjqkFjR6ptyXyp7k-
rM92gYFdBMJzTfU"

sg = sendgrid.SendGridAPIClient(api_key)

from_email = Email("sabanaashmi22022002@gmail.com")
to_email = To("dsraga7@gmail.com")
subject = "Your little efforts can give others second chances to live life."
content = Content("text/plain", "Thank you for choosing our plasma donor application for
donating plasma. Your account has been created and one step ahead to go, please verify your
email ID.")

mail = Mail(from_email, to_email, subject, content)
response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code)
print(response.body)

```

SENDGRID:

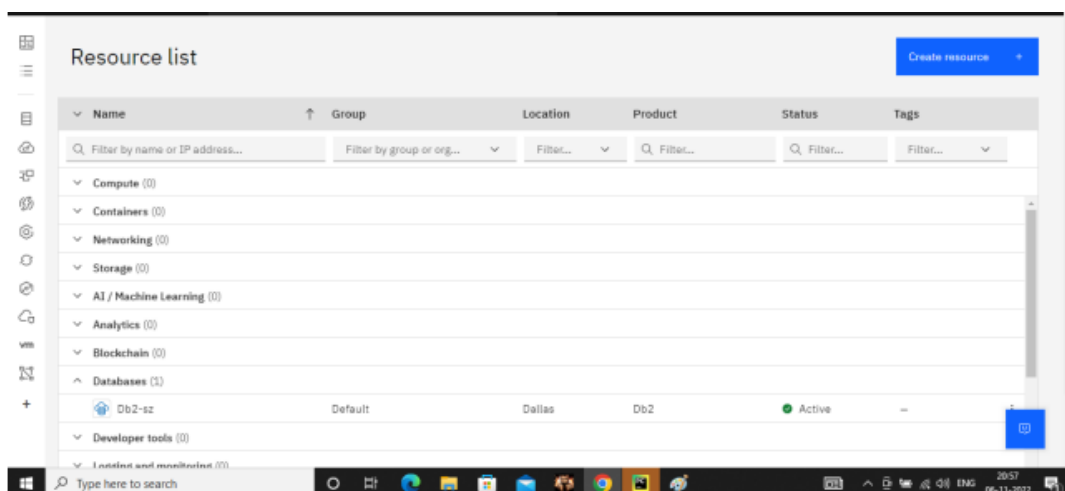
SendGrid is a cloud-based SMTP provider that allows you to send email without having to maintain email servers. SendGrid manages all of the technical details, from scaling the infrastructure to ISP outreach and reputation monitoring to whitelist services and real time analytics. SendGrid provides two ways to send email: through our SMTP relay or through our Web API. SendGrid provides client libraries in many languages. This is the preferred way to integrate with SendGrid. If you choose to use SendGrid without a client library, the Web API is

recommended in most cases as it is faster, provides some benefit with encoding, and tends to be easier to use. SMTP provides many features by default, but is harder to setup.

Code:

```
sendgridmail
import sendgrid
import os from sendgrid.helpers.mail import *
api_key =
"SG.XetJv3WqSfyN2Jx_PYI3YQ.QdmtXUQpcTpjqkFjR6ptyXyrM92gYFdBMJzTfU"
sg = sendgrid.SendGridAPIClient(api_key)
from_email = Email("durgsaveen@gmail.com")
to_email = To("ranisandhya6754.com")
subject = "Your little efforts can give others second chances to live life."
content = Content("text/plain", "Thank you for choosing our plasma donor application for
donating plasma. Your account has been created and one step ahead to go, please verify your
email ID.")
mail = Mail(from_email, to_email, subject, content)
response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code)
print(response.body)
```

Database Schema:



Resource list / **Db2-sz** Active [Add tags](#)

[Details](#) [Actions...](#)

Manage

- Getting started
- Service credentials
- Connections

Getting started

Where can I find my credentials?
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

[Go to UI](#) [Getting started docs](#)

Need help?

Submit a IBM Cloud Support Case to our team.

[Support case](#)

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables [Refresh](#)

Tables [New table](#)

Name	Schema	Properties
<input checked="" type="checkbox"/> DONOR	MWT73641	---

Total: 1, selected: 1

Table definition

DONOR No statistics available

Name	Data type	Nullable	Length	Scale
BLOOD GROUP	VARCHAR	Y	32	0
ADDRESS	VARCHAR	Y	32	0
NAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PHONE NO.	VARCHAR	Y	32	0

[View data](#)

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables Refresh

Tables New table

Name	Schema	Properties
<input checked="" type="checkbox"/> DONOR	MWT73641	---
<input checked="" type="checkbox"/> REGISTER	MWT73641	---

Total: 2, selected: 2

Table definition

REGISTER No statistics available

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

View data

IBM Db2 on Cloud

The name of the object to be created is identical to the existing name "MWT73641.REGISTER" of type "TABLE". Show logs

Find schemas or tables Refresh

Tables New table

Name	Schema	Properties
<input type="checkbox"/> DONOR	MWT73641	---
<input type="checkbox"/> LOGIN	MWT73641	---
<input checked="" type="checkbox"/> REGISTER	MWT73641	---
<input checked="" type="checkbox"/> REGISTER1	MWT73641	---

Total: 4, selected: 2

Table definition

LOGIN No statistics available

Name	Data type	Nullable	Length	Scale
user name	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

View data

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

MWT73641.REGISTER Back

Export to CSV

USERNAME	EMAIL	PASSWORD
ABS	abs@gmail.com	AG4r3
ABU	abuu@gmail.com	BUU
oreo	oreo@gmail.com	SHARA

CHAPTER-8

TESTING

8.1 Test Cases :

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the Plasma Donor App project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	5	4	2	3	15
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	1	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	73

8.2 USER ACCEPTANCE TESTING:

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	35	0	4	31
Security	2	0	0	2

Outsource Shipping	5	0	0	5
Exception Reporting	6	0	0	6
Final Report Output	4	0	0	4
Version Control	1	0	0	1

CHAPTER 9

RESULT:

Authentication Module

- Sign Up

New user or donor can create an account to use in the blood/plasma donor application and create a password for account verification and create an identity.

- Sign In

Donor Sign In to the account for viewing or editing location details and any other personal information.

- Account Verification

If donor changes their password or if they forget the password then we have to verify their account using mail verification.

Service Provider Module

- Add New Donor

User can be able to register to add donor details.

- List All Donor

User can be able to view all Donor who all use our Plasma Donor Application.

- Edit Customer Plan Details

User can be able to edit the existing Donor details as the Donor wish.

9.1 Performance metrics:

Registration Page:

Plasma Donor App

Home Register

Enter Username

Enter Password

Login

Plasma Donor App

Home

Enter Your Name

Enter Email

Enter 10-digit mobile number

Enter Your City Name

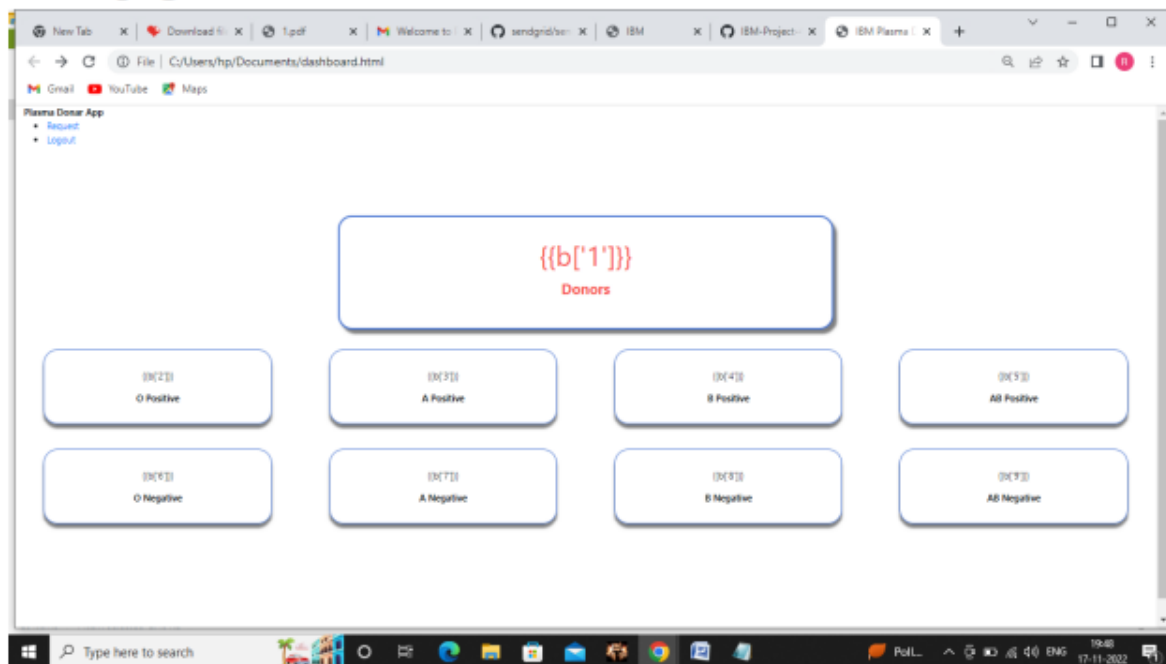
Select COVID infection status

Choose your blood group

Enter Password

Register

Dashboard page:



CHAPTER-10

ADVANTAGES & DISADVANTAGES:

Advantages:

- Speed

This website is fast and offers great accuracy as compared to manual registered keeping.

- Maintenance

Less maintenance is required

- User Friendly

It is very easy to use and understand. It is easily workable and accessible for everyone.

- Fast Results

It would help you to provide plasma donors easily depending upon the availability of it.

Disadvantages:

- Internet

It would require an internet connection for the working of the website.

- Auto- Verification

It cannot automatically verify the genuine users.

CHAPTER-11

CONCLUSION:

Although the government is carrying out Covid-19 vaccination campaigns on a large scale, the number of vaccines produced is not enough for all the population to get vaccinated at present. And with the corona positive cases rising every day, saving lives has become the prime matter of concern. As per the data provided by WHO more than 3 million people have died due to the coronavirus. However, apart from vaccination, there is another scientific method by which a Covid infected person can be treated and the death risk can be reduced. This plasma therapy is an experimental approach to treat corona- positive patients and help them recover. This plasma therapy is considered to be safe & promising. A person who has recovered from Covid can donate his/her plasma to a person who is infected with the coronavirus. This system proposed here aims at connecting the donors & the patients by an online application. By using this application, the users can either raise a request for plasma donation or requirement. Both parties can Accept or Reject the request. User has to Upload a Covid Negative report to be able to Donate Plasma. This system is used if anyone needs a Plasma Donor Blood and Plasma donation is a kind of citizen's social responsibility in which an individual can willingly donate blood/plasma via our app. This Application has been created with the concept and has sought to make sure that the donor gives blood/plasma to community. This model is made user friendly so anybody can view and maintain his/her account. This application will break the chain of business through blood/plasma and help the poor to find donor at free of cost. This project will help new blood/plasma banks improve their services and progress from traditional to user-friendly frameworks

CHAPTER-12

FUTURE SCOPE :

- Plasma Application can be developed to further improve user accessibility via integrating this application with various social networks application program interfaces (APIs). Consequently, users can login and signup using various social networks. This would increase number of donors and enhances the process of blood donation
- User interface (UI) can be improved in future to accommodate global audience by supporting different languages across countries. Data scraping can be done from different social networks and can be shown in the Blood/Plasma Request Feeds. Appointments can be synchronized with Google and Outlook calendars for the ease of users.
- Donor and Beneficiary Stories feature aims to create a sense of belong into the community. Donors will be able to view and share personal experiences about their donation; Beneficiaries can share their experiences of receiving blood transfusion which contributed to their improved health and lives.
- Live Check-in Process feature aims to provide a better experience with regards to the waiting time when the user is in the process of donation. We hypothesis that a more efficient experience will help the user look forward to his blood/plasma donation appointment

CHAPTER-13

Appendix:

Login pages

```
<!DOCTYPE
html>
```

```
<html>
<head>
<meta name="viewport" content="width=device-width, initial-
scale=1">
<title> Login Page </title>
<style>
Body {
    font-family: Calibri, Helvetica, sans-serif;
    background-color: pink;
}
button {
    background-color: #4CAF50;
    width: 100%;
    color: orange;
    padding: 15px;
    margin: 10px 0px;
    border: none;
<!DOCTYPE.html>
    cursor: pointer;
}
form {
    border: 3px solid #f1f1f1;
```

```

    }
input[type=text], input[type=password] {
    width: 100%;
    margin: 8px 0;
    padding: 12px 20px;
    display: inline-block;
    border: 2px solid green;
    box-sizing: border-box;
}
button:hover {
    opacity: 0.7;
}
.cancelbtn {
    width: auto;
    padding: 10px 18px;
    margin: 10px 5px;
}

.container {
    padding: 25px;
    background-color: lightblue;
}
</style>
</head>
<body>
    <center> <h1>Login Form </h1> </center>
    <form>

```

```

<div class="container">
  <label>Username : </label>
  <input type="text" placeholder="Enter Username"
name="username" required>
  <label>Password : </label>
  <input type="password" placeholder="Enter Password"
name="password" required>
  <button type="submit">Login</button>
  <input type="checkbox" checked="checked"> Remember me
  <button type="button" class="cancelbtn"> Cancel</button>
  <a href="#"> Forgot password? </a>
</div>
</form>
</body>
</html>

```

Registration page

```

<!DOCTYPE.html>
<html>

<head>
<title></title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" type="text/css" href="CSS\styleregisterdonor.css">
<link    rel="stylesheet"    href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
<!-- jQuery library -->

```

```

<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>

<!-- Latest compiled JavaScript -->
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></sc
ript>
<script src="https://www.google.com/recaptcha/api.js" async defer></script>
<style type="text/css">
.error
{
color: red;
}
</style>
</head>
<body>
<?php
include 'header.php';
?>
<div class="heading fix">
<label>REGISTRATION</label>
</div>
<div class="outerbox">
<div class="fixedbox">
<span class="content">
<h4>Hello, Friend!</h4>
<p>Enter your personal details and start journey with us</p>
</span>

```

```

</div>
<div class="scrollbox">
<div class="registerdonor">
<form action="process.php" method="POST" id="myform">
<div class="login">
<h3>Login Details</h3>
<table>
<tr>
<td colspan="2">
<label class="username">User Name:-</label>
<input type="text" name="user_name" required pattern="^[A-Za-z0-9._%+@]{5,10}$" title="Enter a username between 5 to 10 letter"
autocomplete="off">
</td>
</tr>
<tr>
<td>
<label>Full Name:-</label>
<input type="text" name="user_full_name" required pattern="[A-z ]+$"
title="Use only character & whitespace" autocomplete="off">
</td>
<td>
<label>Email Id:-</label>
<input type="email" name="user_email" required pattern="[A-Za-z0-9._%+@]{5,10}$" title="Email id is not Valid" autocomplete="off">
</td>
</tr>
<tr>

```

```

<td>
<label>Password:-</label>
<input type="password" name="password" required pattern="(?=.*\d)(?=.*[a-
z])(?=.*[A-Z]).{6,}" title="Must contain at least one number and one uppercase
and lowercase letter, and at least 6 or more characters" id="password"
autocomplete="off">
</td>
<td>
<label>Confirm Password:-</label>
<input type="text" name="confirm_password" required
pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z]).{6,}" title="Must contain at least one
number and one uppercase and lowercase letter, and at least 6 or more characters"
id="confirm_password" autocomplete="off">
</td>
</tr>
</table>
</div>
<div class="contact">
<h3>Contact Details</h3>
<table>
<tr>
<td>
<label>Mobile Number:-</label>
<input type="text" name="user_number" required pattern="^[1-9]{1}[0-
9]{9}$" title="Number is not valid" autocomplete="off">
</td>
<td rowspan="2">
<label>Address:-</label>

```

```

<textarea name="Address" placeholder="---Type---" required></textarea>
</td>
</tr>
<tr>
<td>
<label>Pincode</label>
<input type="text" name="pincode" required pattern="^[0-9]{6}$"
title="Pincode is not valid" autocomplete="off">
</td>
</tr>
<tr>
<td>
<label>City:-</label>
<input type="text" name="city" >
</td>
<td>
<label>State:-</label>
<input type="text" name="state">
</td>
</tr>
</table>
</div>
<div class="personal">
<h3>Personal Details</h3>
<table>
<tr>
<td>
<label>Date Of Birth:-</label>

```

```

<input type="date" name="date_of_birth" required autocomplete="off">
</td>
<td>
<label>Gender:-</label>
<div class="radio">
<input type="radio" name="gender" class="radio1" value="Male"><span
class="radioname" required autocomplete="off">Male</span>
<input type="radio" class="radio2" name="gender" value="Female"><span
class="radioname" required autocomplete="off">Female</span>
</div>
</td>
</tr>
<tr>
<td>
<label>Blood Group</label>
<input type="text" list="bloodgroup" name="blood_group" placeholder="----
Select----" required autocomplete="off">
<datalist id="bloodgroup">
<option value="A+"></option>
<option value="A-"></option>
<option value="AB+"></option>
<option value="B+"></option>
<option value="B-"></option>
<option value="O+"></option>
<option value="O-"></option>
</datalist>
</td>
<tr>

```



```

<td>
<label>Plasma Type</label>
<input type="text" list="plasmatype" name="plasma_type" placeholder="----
Select----" required autocomplete="off">
<datalist id="plasmatype">
<option value="Hot"></option>
<option value="Warm"></option>
<option value="Cold"></option>
<option value="Ultra Cold"></option>
</datalist>
</td>
</tr>
<tr>
<td>
<label>Weight In Kg [Approx]:-</label>
<input type="number" name="weight" required autocomplete="off">
</td>
</tr>
</table>
</div>
<span>
<input type="checkbox" name="terms" id="checkbox" required
autocomplete="off">
</span><p>I agree to have my contact details broadcasted to the registered
donors of B24U.net</p>
<div class="btn">
<input type="submit" name="submit" value="Submit">
<input type="reset" name="submit" value="Reset">

```

```

</div>
</form>
</div>

</div>
</div>
<!-- Responsive Table -->
<div class="rregisterdonor">
<form action="process.php" method="POST" id="myform">
<!DOCTYPE html>
    </html>

```

Dashboard page

```

<!DOCTYPE html>
    <html lang="en">
    <head>
    <title>IBM Plasma Donar App</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"
></script>

```

```

<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></sc
ript>
<link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<style>
.big{
top:70;
background-color:white;
margin-top:80px;
margin-left:550px;
margin-right:550px;
height:200px;
border-radius: 25px;
border: 3px solid #4a77d4;
box-shadow: 6px 8px 4px grey;
text-align:center;
}
.row{
height:150px;
}
.col{
margin:10px;
margin-left:50px;
margin-right:50px;
border-radius: 25px;
border: 1px solid #4a77d4;
box-shadow: 0px 8px 4px grey;

```

```
text-align:center;
```

```
}
```

```
.ext{
```

```
margin-top:25px;
```

```
line-height:40px;
```

```
}
```

```
.ext1{
```

```
margin-top:40px;
```

```
line-height:50px;
```

```
font-size:25px;
```

```
color:#f95450;
```

```
}
```

```
</style>
```

```
<body>
```

```
<div class="container-fluid">
```

```
<div class="header">
```

```
<div><b>Plasma Donar App</b></div>
```

```
<ul>
```

```
<li><a href="/requester">Request</a></li>
```

```
<li><a class="active" href="/logout">Logout</a></li>
```

```
</ul>
```

```
</div>
```

```
<br>
```

```
<div class="big">
```

```
<div class="box">
```

```

<div class="ext1"><font
size="20px">{ {b['1']}}</font><br><b>Donors</b></div>
</div>
</div>
<br>
<div class="row">
<div class="col" >
<div class="ext">{ {b['2']}}<br><b>O Positive</b></div>
</div>
<div class="col" >
<div class="ext">{ {b['3']}}<br><b>A Positive</b></div>
</div>
<div class="col" >
<div class="ext">{ {b['4']}}<br><b>B Positive</b></div>
</div>
<div class="col" >
<div class="ext">{ {b['5']}}<br><b>AB Positive</b></div>
</div>
</div>
<br>
<div class="row">
<div class="col" >
<div class="ext">{ {b['6']}}<br><b>O Negative</b></div>
</div>
<div class="col" >
<div class="ext">{ {b['7']}}<br><b>A Negative</b></div>
</div>
<div class="col" >

```

```
<div class="ext">{{b['8']}}<br><b>B Negative</b></div>
</div>
<div class="col" >
<div class="ext">{{b['9']}}<br><b>AB Negative</b></div>
</div>
</div>
<div style="height:200px"></div>
</div>
</body>
</html>
```

GitHub Repositories: <https://github.com/IBM-EPBL/IBM-Project-48612-1660810403>