PLASMA DONOR APPLICATION

PROJECT REPORT

A PROJECT REPORT

Submitted by

AKASH RAM P	**7376191EC109**
ADHAVAN G	**7376191EC106**
ARULMOZHI K	**7376191EC112**
HARIHARASUTHAN L	**7376191EC153**

TEAM ID : PNT2022TMID01683

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

Sathyamangalam - 638 052

TABLE OF CONTENTS

1. INTRODUCTION

1.1 PROJECT OVERVIEW

- The person who wants to donate his/her plasma needs to register in the application.
- After that gives the basic information of donor

  Like name, age, blood group, phone number and location etc .
- Patients can directly call the donor by taking his/her contact number from the application.
- The user can view the total active cases, recovered cases, vaccine canter hospital location and help line number.

1.2 PURPOSE

- To make easier for the **covid -**19 patients to get a plasma donor easily.
- They have two types of users:

  1. Plasma donors
  2. Plasma acceptor

- The user also view near by location of hospital, vaccine center, and donor contact number.

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM

- Location finding of donor to donate a plasma
- Searching of hospitals to find the plasma
- Searching of blood groups
- Blood center finding of acceptor

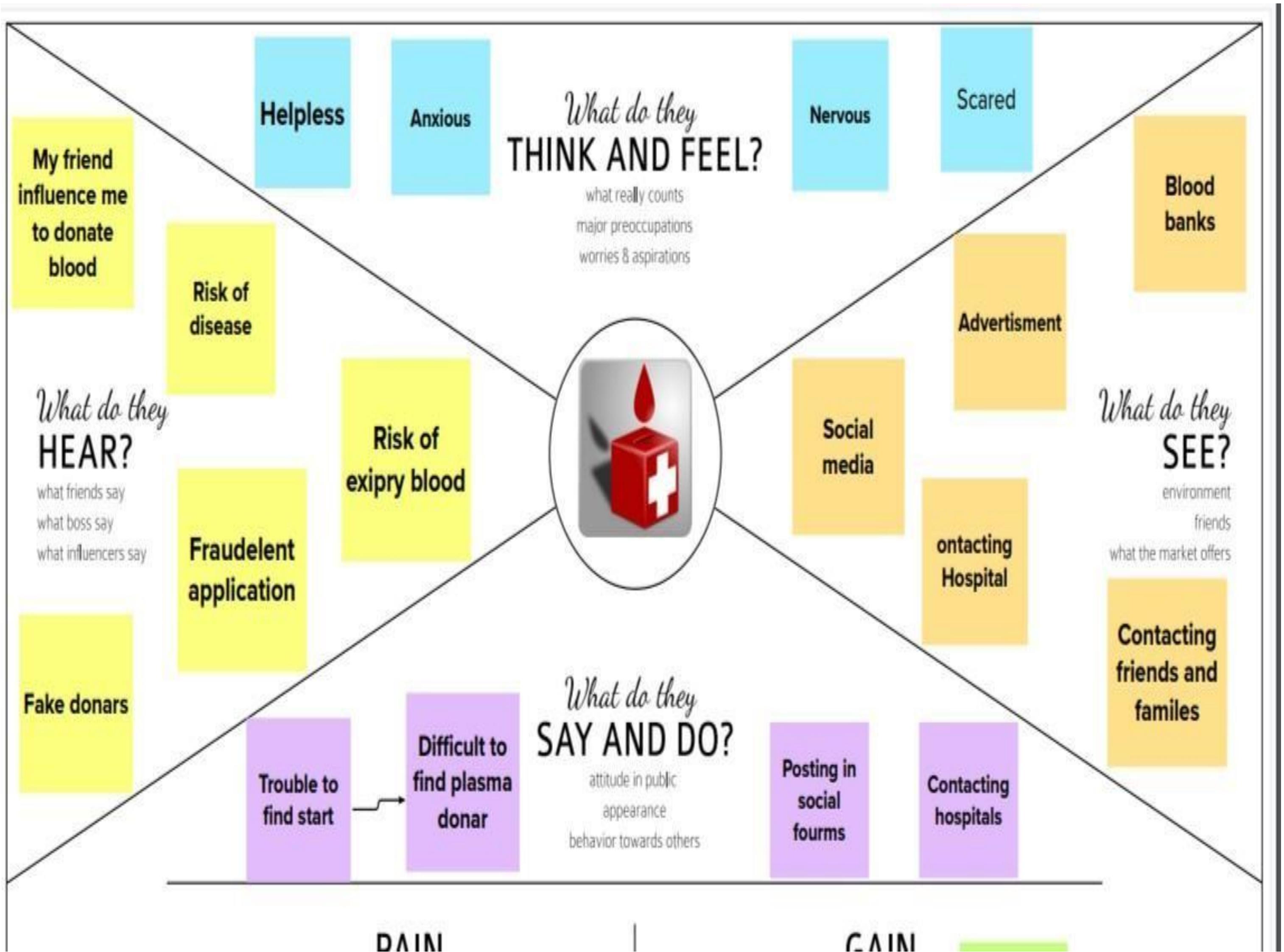
2.3 problem statement definition

- It is difficult to find a plasma donor as everybody cannot donate a Plasma so the user can benefit to the website
- Plasma donor can easily donate our plasma.
- Plasma acceptor can easily find the plasma donor.

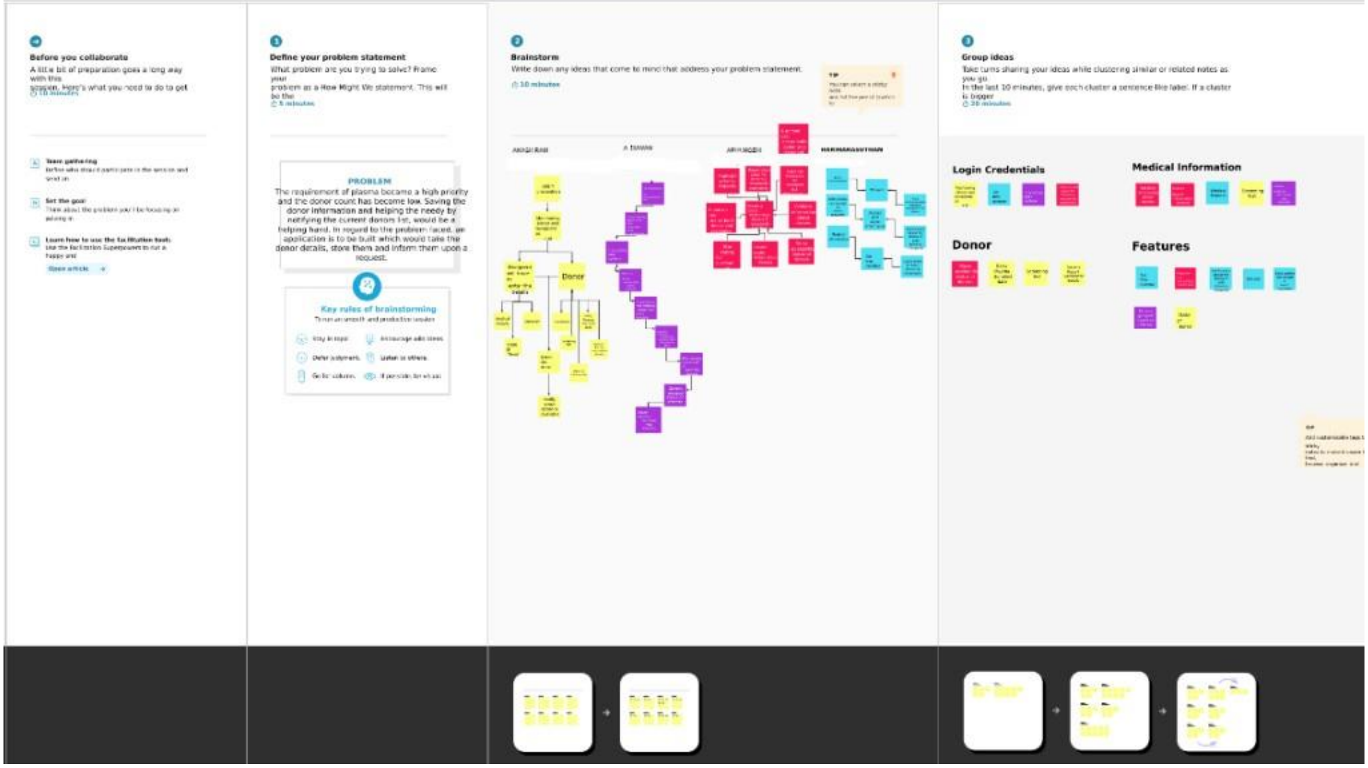
- The patients can directly call the donor by taking his/her contact number from the application.

3. IDEATION &PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS



3.2 BRAINSTORMING DIAGRAM



Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get

10 minutes

Team gathering
Define who should participate in the session and send an

Set the goal
Think about the problem you'll be focusing on solving in

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and

Open article

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the

5 minutes

PROBLEM

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. In regard to the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request.

Key rules of brainstorming

To run an smooth and productive session

Stay in topic.

Encourage wild ideas.

Defer judgment.

Listen to others.

Go for volume.

If possible, be visual.

Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go.
In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger

20 minutes

3.3

4.REQUIREMENT ANALYSIS

4.1 Functional requirements

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form (WebApp)
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Certification	After the donor donates plasma, we will give them a certificate of appreciation and authentication.
FR-4	Statistical data	The availability of plasma is given in the page as stats, which will be helpful for the users.
FR-5	User Plasma Request	Users can request to donate plasma by filling out the request form on the page. Once the request is submitted, they will get an email
FR-6	Searching/reporting requirements	Users can use the search bar to look up information about camps and other topics.

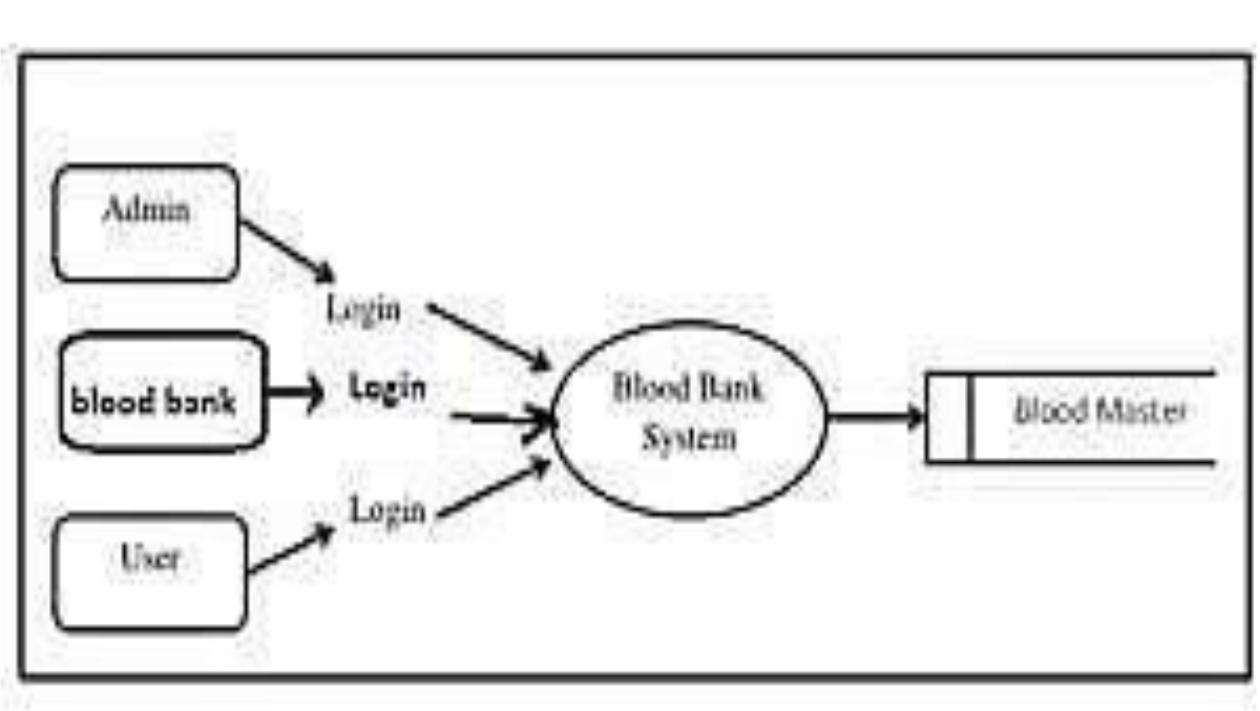
4.2 Non-Functional requirements

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Must have a good looking User friendly interface.
NFR-2	**Security**	It must be secured with the proper username and password.
NFR-3	**Reliability**	The system should be made in such away that it is reliable in its operations and for securing the sensitive details.
NFR-4	**Performance**	Users should have a proper Internet Connection.
NFR-5	**Availability**	The system including the online and offline components should be available 24/7.

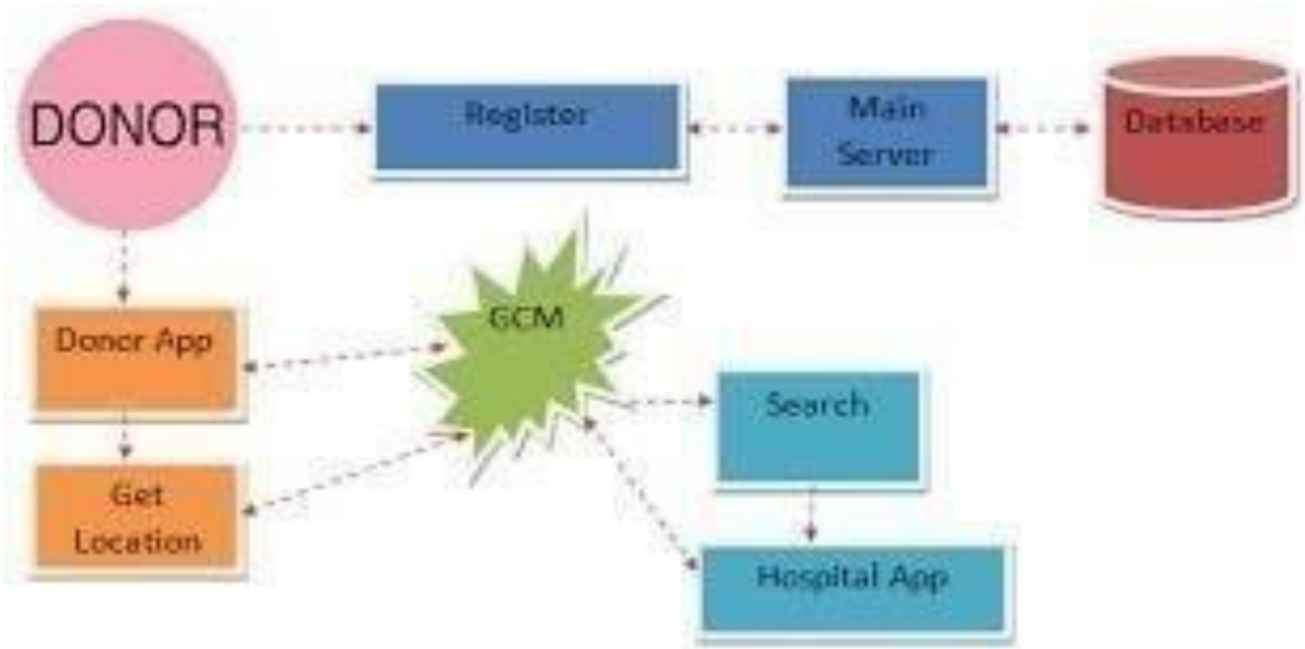
NFR-6	**Scalability**	The application has the ability to handle growing numbers of users and load without compromising on performance and causing disruptions to user experience.

5.PROJECT DESIGN

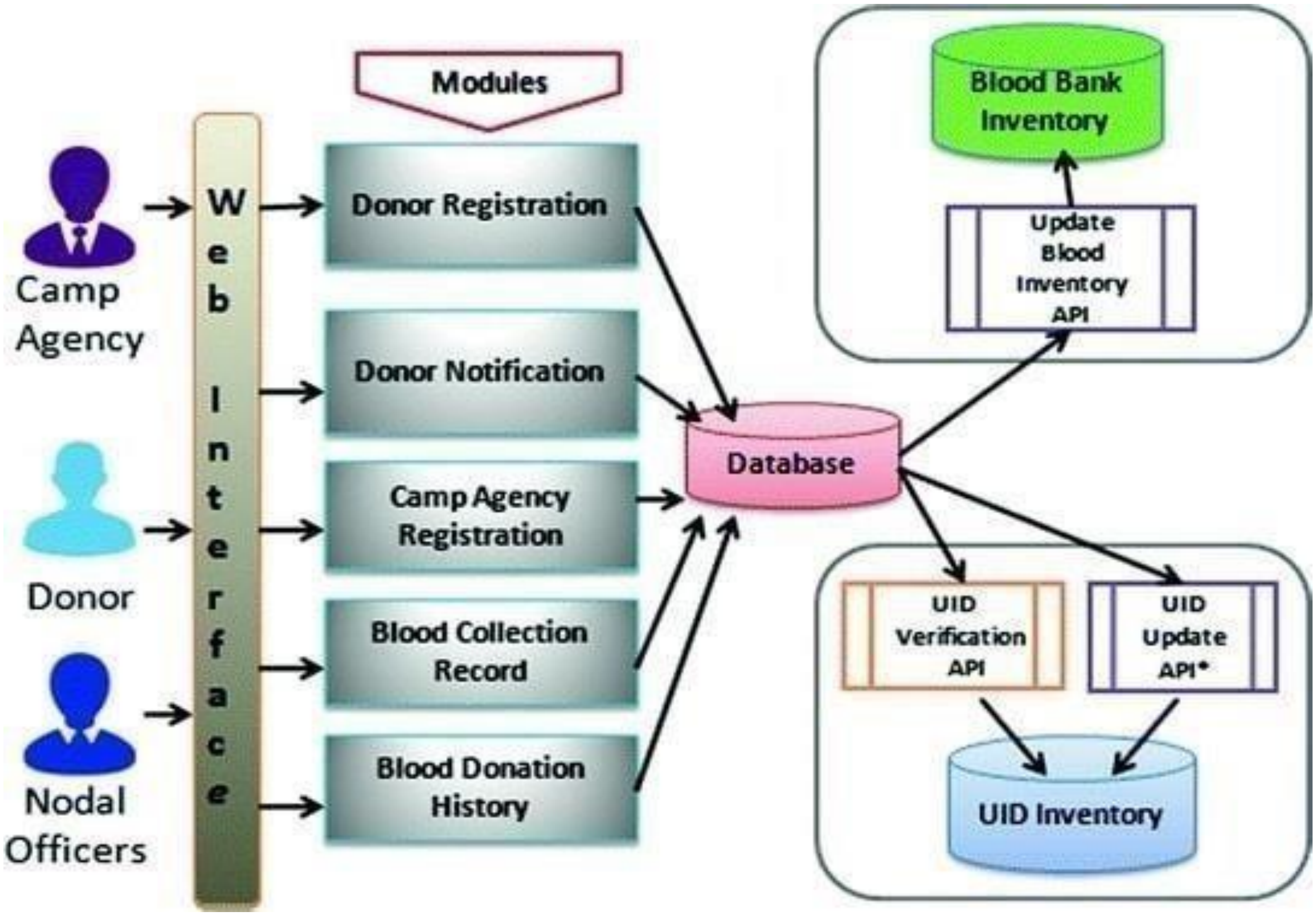
5.1 Data Flow Diagrams



LEVEL 0

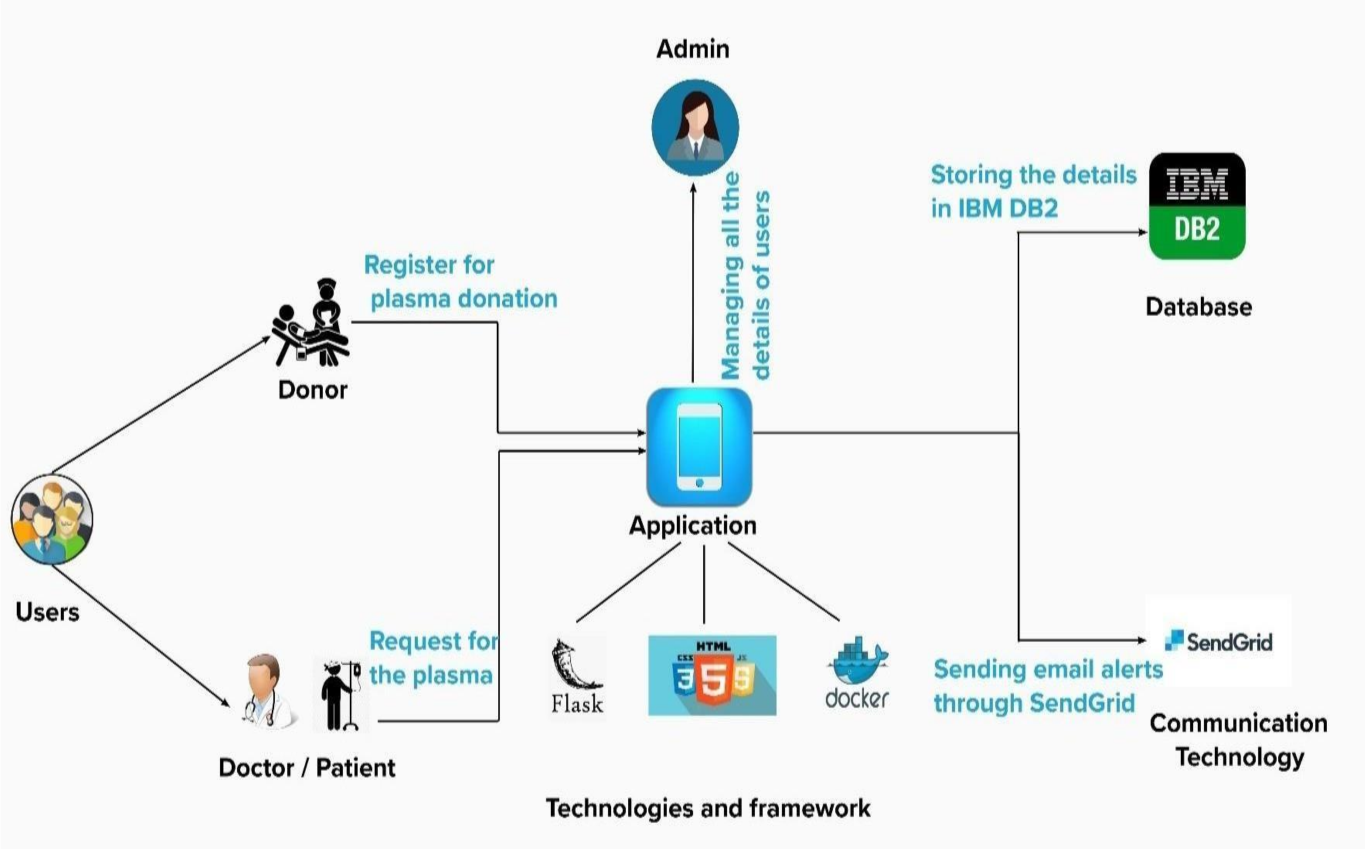


LEVEL 1



LEVEL 2

5.2 Solution &Technical Architecture


Admin
Managing all the details of users
Storing the details in IBM DB2
IBM
DB2
Database
Register for plasma donation
Donor
Application
Users
Request for the plasma
Doctor / Patient
Flask
HTML
CSS
JS
docker
SendGrid
Sending email alerts through SendGrid
Communication Technology
Technologies and framework

5.3 User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria
Donor	App Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard
	Login	USN-2	As a user, I can log into the application by entering email & password	I can receive confirmation email & click confir

	Register For Donate	USN-3	As a user, I can log into the application and find the current bank to donate plasma and confirm my booking	I can register & access the dashboard with Facebook Login
patient/ doctor	Find the bank	USN-4	As a patient, I can directly access the application and find the plasma available bank	I can access my account / dashboard
	Request for plasma	USN-5	As a user, I can enter into the application and find the current bank and request for plasma and state the emergency	I can register & access the dashboard with Facebook Login
Administrator	Maintain the applications	USN-6	As Administrator I can log into the application by entering email & password and maintaining details for users	I can access my account / dashboard
	Connect The Bank With Users	USN-7	As Administrator, i can hold the good communication between bank and user	I can access my account / dashboard
	Maintain Database	USN-8	As Administrator i can hold the exact details of donor and patient and also bank for requesting and available of plasma	I can access my account / dashboard
Plasma Bank	Connect The Bank With Users	USN-7	As Bank, i can hold the good communication between Administrator and user	I can access my account / dashboard
	Maintain Database	USN-8	As Bank i can hold the exact details of donor and patient and also bank for requesting and available of plasma	I can access my account / dashboard
BOT	Help the user my bot message in application	USN-9	As AI bot, i can hold the good communication between bank and user also help the user	I can access my account / dashboard

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

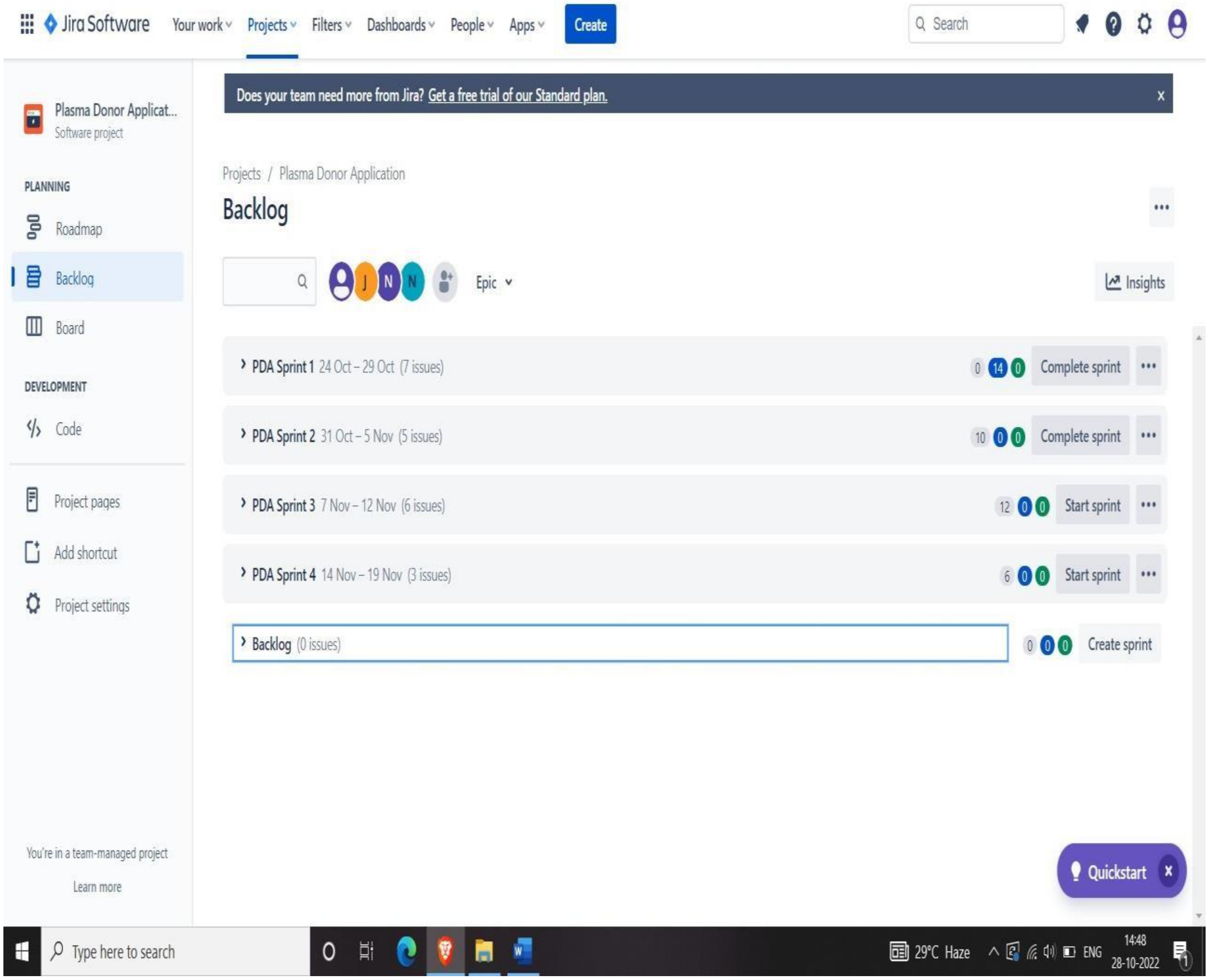
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Akash Ram P
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Hariharasuthan L
Sprint-1		USN-3	As a user, I can register for the application through Facebook	2	Low	Arulmozhi K
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Adhavan G
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Akash Ram P
Sprint-1	Dashboard	USN-6	As a user, I can access the website in a second.	2	High	Arulmozhi K
Sprint-1	Dashboard	USN-7	As a user, If I Logged in correctly, I can view my dashboard and I can navigate to any pages which are already listed there.	2	High	Adhavan G
Sprint-2	User Profile	USN-8	As a user, I can view and update my details	2	Medium	Hariharasuthan L

6.2 : Sprint Delivery Schedule

Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022

20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 : Reports From JIRA



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Projects / Plasma Donor Application

Backlog

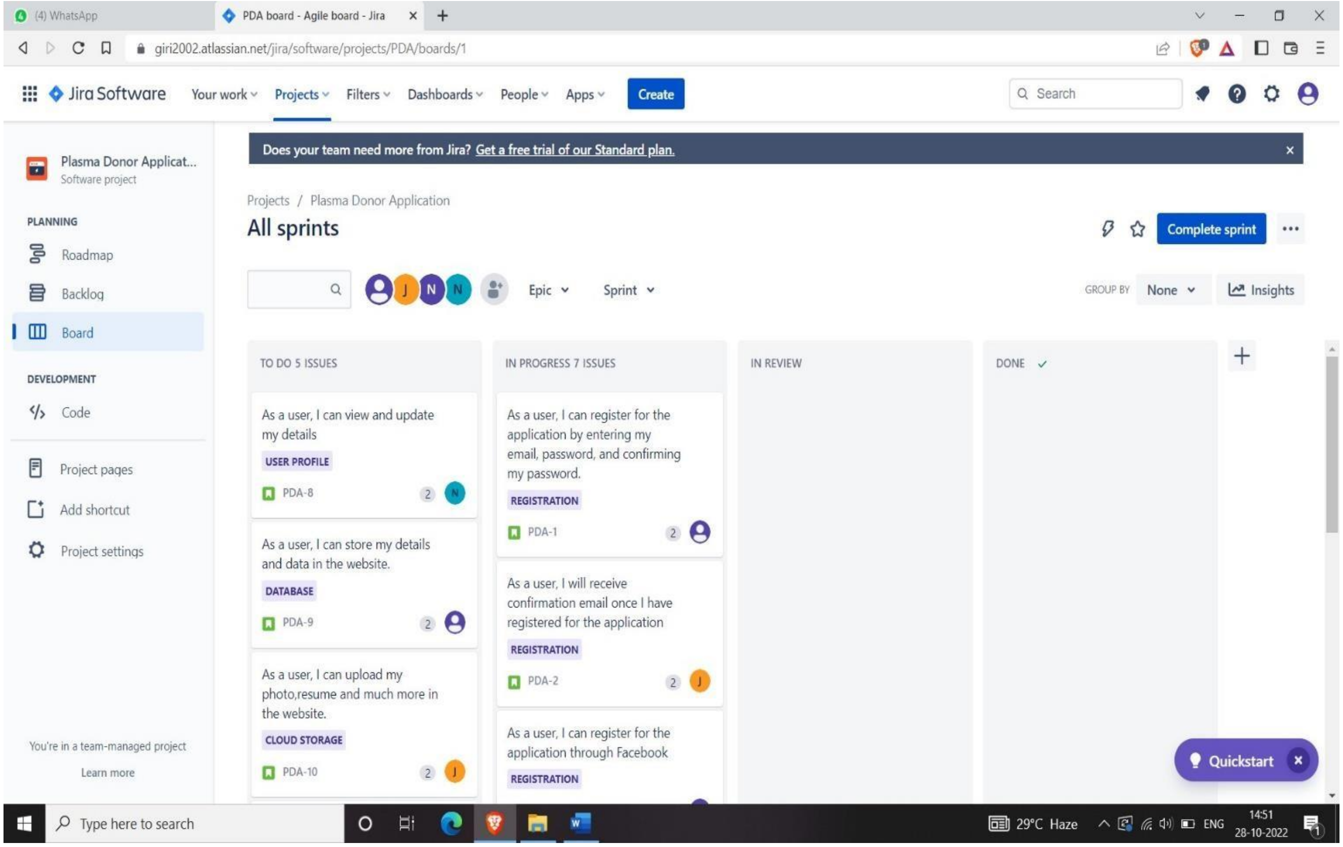
PDA Sprint 1 24 Oct – 29 Oct (7 issues) 0 14 0 Complete sprint

PDA Sprint 2 31 Oct – 5 Nov (5 issues) 10 0 0 Complete sprint

PDA Sprint 3 7 Nov – 12 Nov (6 issues) 12 0 0 Start sprint

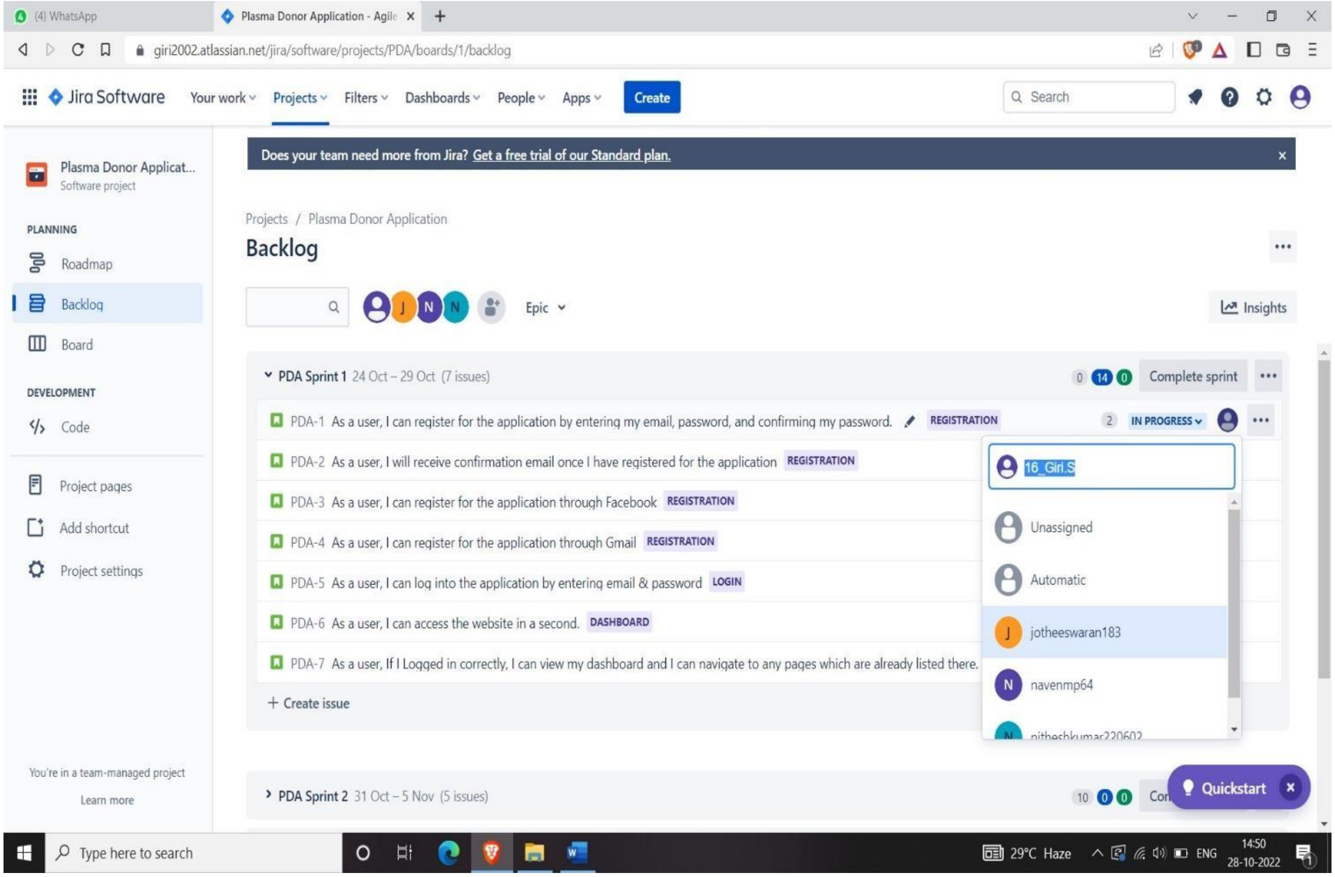
PDA Sprint 4 14 Nov – 19 Nov (3 issues) 6 0 0 Start sprint

Backlog (0 issues) 0 0 0 Create sprint



All sprints

TO DO 5 ISSUES	IN PROGRESS 7 ISSUES	IN REVIEW	DONE ✓
As a user, I can view and update my details USER PROFILE PDA-8 2 N	As a user, I can register for the application by entering my email, password, and confirming my password. REGISTRATION PDA-1 2		
As a user, I can store my details and data in the website. DATABASE PDA-9 2	As a user, I will receive confirmation email once I have registered for the application REGISTRATION PDA-2 2 J		
As a user, I can upload my photo,resume and much more in the website. CLOUD STORAGE PDA-10 2 J	As a user, I can register for the application through Facebook REGISTRATION		



Backlog

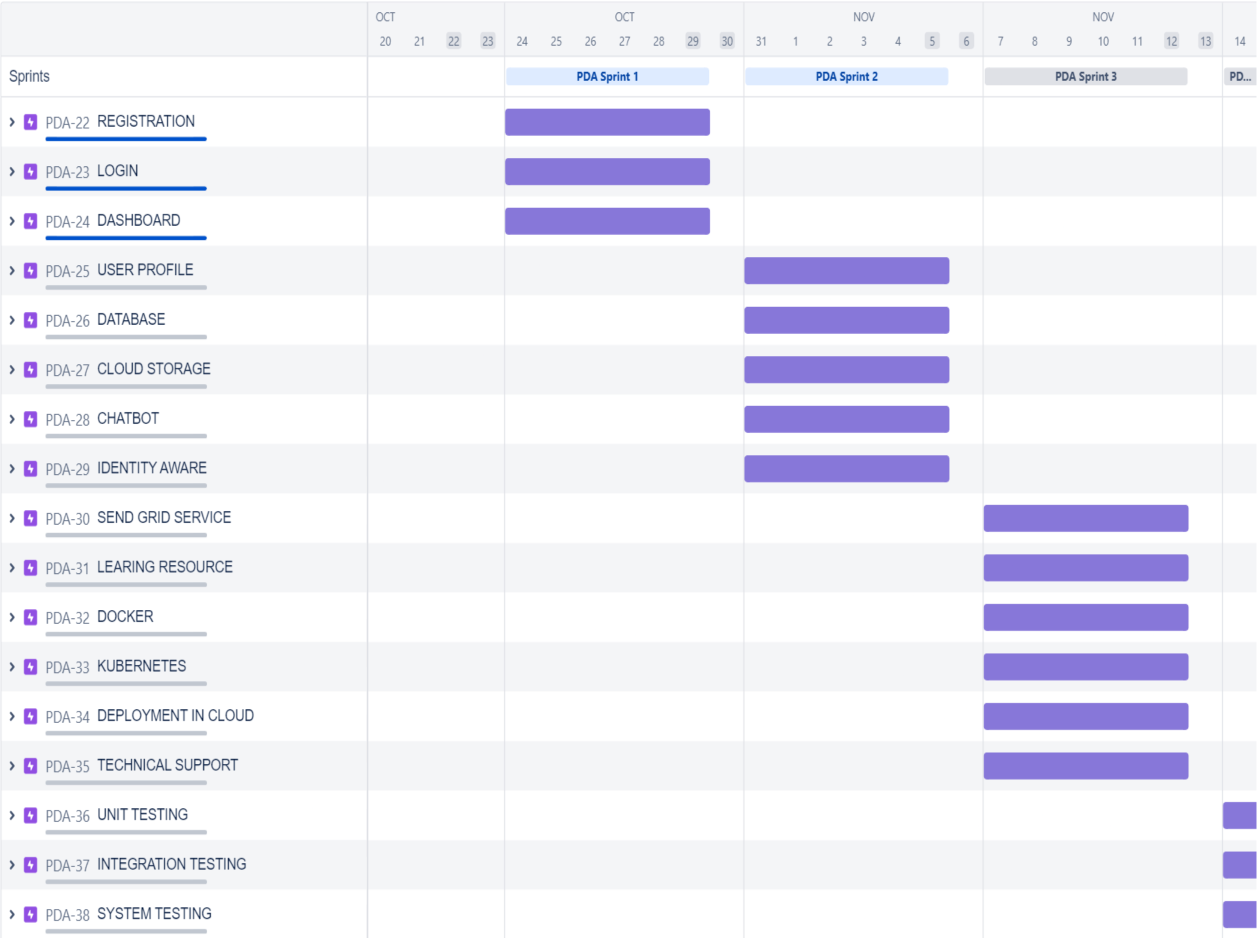
PDA Sprint 1 24 Oct – 29 Oct (7 issues) 0 14 0 Complete sprint

- PDA-1 As a user, I can register for the application by entering my email, password, and confirming my password. REGISTRATION 2 IN PROGRESS
- PDA-2 As a user, I will receive confirmation email once I have registered for the application REGISTRATION
- PDA-3 As a user, I can register for the application through Facebook REGISTRATION
- PDA-4 As a user, I can register for the application through Gmail REGISTRATION
- PDA-5 As a user, I can log into the application by entering email & password LOGIN
- PDA-6 As a user, I can access the website in a second. DASHBOARD
- PDA-7 As a user, If I Logged in correctly, I can view my dashboard and I can navigate to any pages which are already listed there.

+ Create issue

16_Giri.S
- Unassigned
- Automatic
- jotheeswaran183
- navenmp64
- nitheshkumar220602

PDA Sprint 2 31 Oct – 5 Nov (5 issues) 10 0 0



Sprints — PDA Sprint 1, PDA Sprint 2, PDA Sprint 3, PD...

PDA-22 REGISTRATION

PDA-23 LOGIN

PDA-24 DASHBOARD

PDA-25 USER PROFILE

PDA-26 DATABASE

PDA-27 CLOUD STORAGE

PDA-28 CHATBOT

PDA-29 IDENTITY AWARE

PDA-30 SEND GRID SERVICE

PDA-31 LEARING RESOURCE

PDA-32 DOCKER

PDA-33 KUBERNETES

PDA-34 DEPLOYMENT IN CLOUD

PDA-35 TECHNICAL SUPPORT

PDA-36 UNIT TESTING

PDA-37 INTEGRATION TESTING

PDA-38 SYSTEM TESTING

7 . CODING & SOLUTIONING

login.html

```
<<<<<<< HEAD
.gradient-custom-2 {
/* fallback for old browsers */
background: #fccb90;

/* Chrome 10-25, Safari 5.1-6 */
```

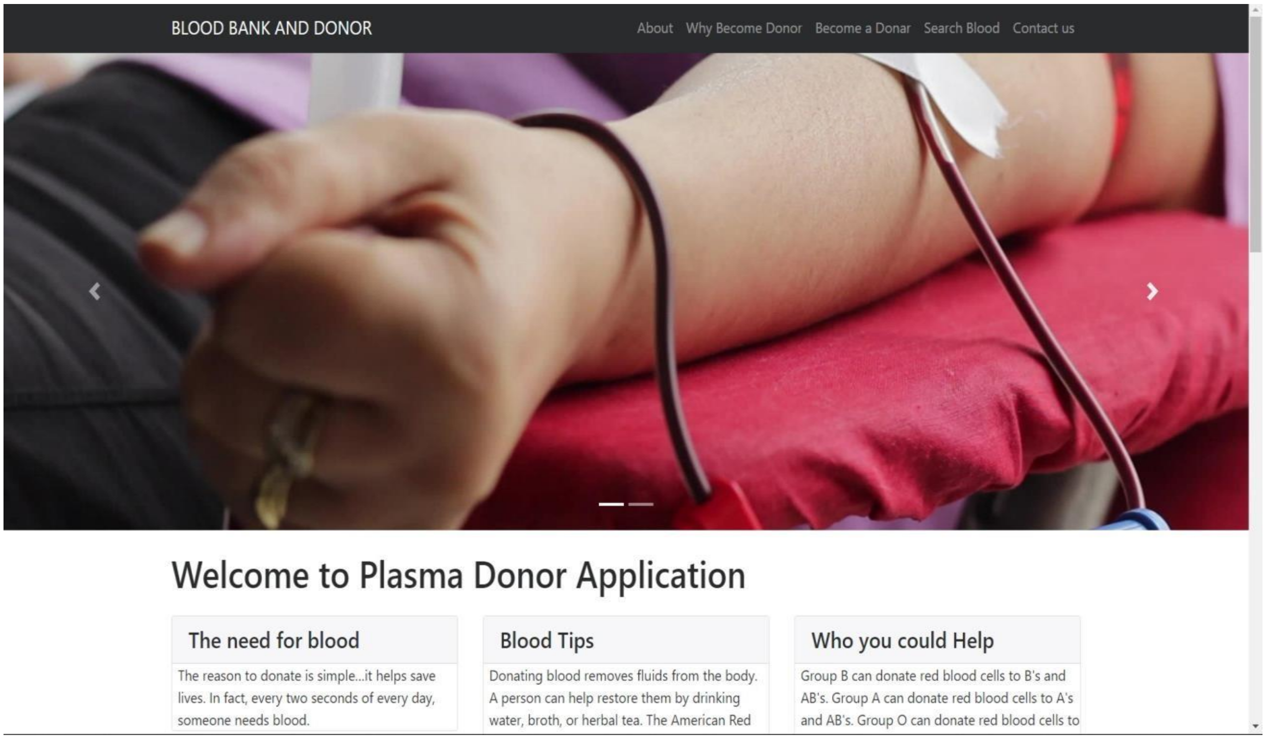
```
background: -webkit-linear-gradient(to right, #ee7724,
#d8363a, #dd3675, #b44593);

/* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera
12+, Safari 7+ */
background: linear-gradient(to right, #ee7724, #d8363a,
#dd3675, #b44593);
}

@media (min-width: 768px) {
.gradient-form {
height: 100vh !important;
}
}
@media (min-width: 769px) {
.gradient-custom-2 {
border-top-right-radius: .3rem;
border-bottom-right-radius: .3rem;
}
=======
.gradient-custom-2 {
/* fallback for old browsers */
background: #fccb90;
}

/* Chrome 10-25, Safari 5.1-6 */
background: -webkit-linear-gradient(to right, #ee7724, #d8363a, #dd3675, #b44593);

/* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ */
background: linear-gradient(to right, #ee7724, #d8363a, #dd3675, #b44593);
}

@media (min-width: 768px) {
.gradient-form {
height: 100vh !important;
}
}
@media (min-width: 769px) {
.gradient-custom-2 {
border-top-right-radius: .3rem;
border-bottom-right-radius: .3rem;
}
>>>>>>> f7575a599e8f64dd620a02c88ed095e491194af1
}
```

main.py

```
<<<<<<< HEAD
from flask import Flask,redirect,url_for,render_template,request,make_response
import ibm_db

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;SECURITY=SSL;SSLServerCertificate=abc.crt;UID=gnq12618;PWD=0glS4tFaR2ciK8fB",",")
print(conn)
print("connection successful...")
app = Flask(__name__)




@app.route('/home')
def home():
    return render_template("home.html")

@app.route('/login',methods=['POST','GET'])
def login():
    if request.method=='POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from user where username=? and
password=?"
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        dic = ibm_db.fetch_assoc(stmt)
        print(dic)
        if dic:
            return redirect(url_for('home'))
        else:
            return redirect(url_for('login'))
        return redirect(url_for('home'))
    elif request.method=='GET':
        return render_template('login.html')
```

```
@app.route('/signup',methods=['POST','GET'])
def signup():
    if request.method=='POST':
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        roll_no = request.form['roll_no']
        sex = request.form['sex']
        age = request.form['age']
        address =  request.form['address']
        blood_group = request.form['blood_group']
        sql = "insert into user values(?,?,?,?,?,?,?,?,?)"
        prep_stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(prep_stmt,1,username)
        ibm_db.bind_param(prep_stmt,2,email)
        ibm_db.bind_param(prep_stmt,3,password)
        ibm_db.bind_param(prep_stmt,4,roll_no)
        ibm_db.bind_param(prep_stmt,5,sex)
        ibm_db.bind_param(prep_stmt,6, age)
        ibm_db.bind_param(prep_stmt,7, "USER")
        ibm_db.bind_param(prep_stmt,8, address)
        ibm_db.bind_param(prep_stmt,9, blood_group)
        ibm_db.execute(prep_stmt)
        #db post operation
        return redirect(url_for('login'))
    elif request.method=='GET':
        return render_template('signup.html')


if__name__=='__main__':
=======
from flask import Flask,redirect,url_for,render_template,request,make_response
import ibm_db

conn = window.watsonAssistantChatOptions = {
    integrationID: "e1e25abc-12d8-4c79-b356-637367ad15cb", // The ID of this integration.
    region: "au-syd", // The region your integration is hosted in.
     serviceInstanceID: "98ebe606-3242-4954-b3eb-8389dc1ec309", // The ID of your service instance.
    onLoad: function(instance) { instance.render(); }
print(conn)
print("connection successful...")
```

```
app = Flask(__name__)




@app.route('/home')
def home():
    return render_template("home.html")

@app.route('/login',methods=['POST','GET'])
def login():
    if request.method=='POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from user where username=? and
password=?"
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        dic = ibm_db.fetch_assoc(stmt)
        print(dic)
        if dic:
            return redirect(url_for('home'))
        else:
            return redirect(url_for('login'))
        return redirect(url_for('home'))
    elif request.method=='GET':
        return render_template('login.html')

@app.route('/signup',methods=['POST','GET'])
def signup():
    if request.method=='POST':
        username = request.form['username']
        email = request.form['email']
        password = request.form['password']
        roll_no = request.form['roll_no']
        sex = request.form['sex']
        age = request.form['age']
        address =  request.form['address']
        blood_group = request.form['blood_group']
        sql = "insert into user values(?,?,?,?,?,?,?,?,?)"
        prep_stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(prep_stmt,1,username)
        ibm_db.bind_param(prep_stmt,2,email)
        ibm_db.bind_param(prep_stmt,3,password)
        ibm_db.bind_param(prep_stmt,4,roll_no)
        ibm_db.bind_param(prep_stmt,5,sex)
        ibm_db.bind_param(prep_stmt,6, age)
        ibm_db.bind_param(prep_stmt,7, "USER")
        ibm_db.bind_param(prep_stmt,8, address)
        ibm_db.bind_param(prep_stmt,9, blood_group)
        ibm_db.execute(prep_stmt)
        #db post operation
        return redirect(url_for('login'))
    elif request.method=='GET':
        return render_template('signup.html')


if__name__=='__main__':
>>>>>>> f7575a599e8f64dd620a02c88ed095e491194af1
    app.run(debug = True)
```



Welcome to Plasma Donor Application

The need for blood

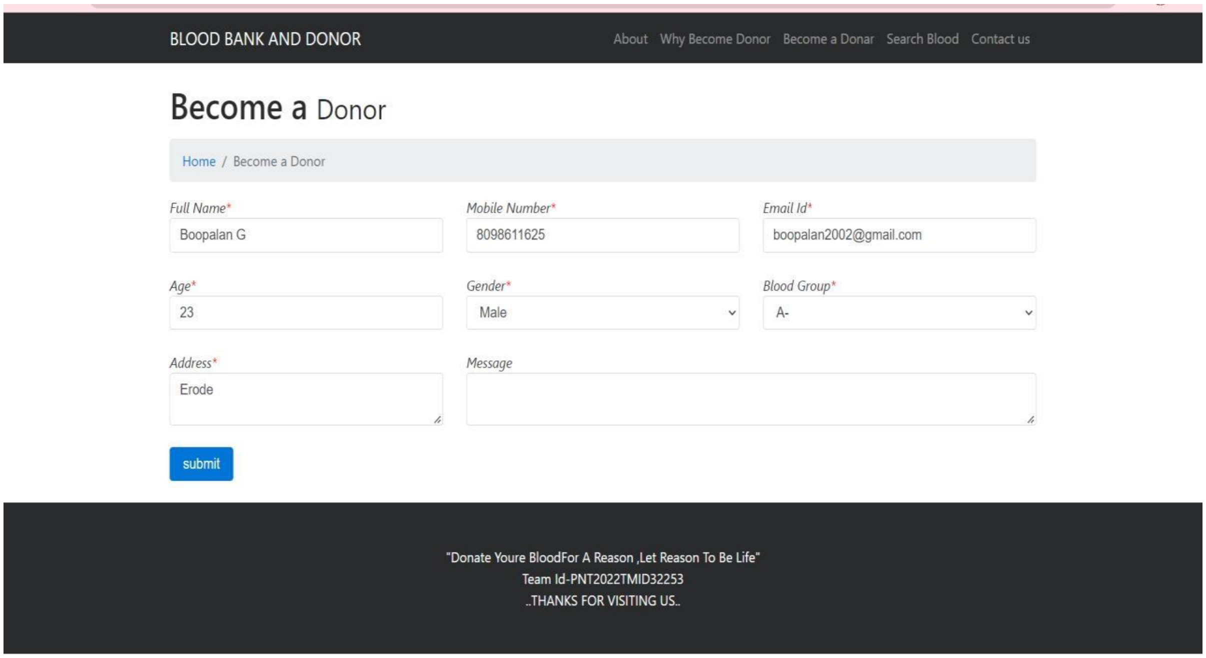
The reason to donate is simple...it helps save lives. In fact, every two seconds of every day, someone needs blood.

Blood Tips

Donating blood removes fluids from the body. A person can help restore them by drinking water, broth, or herbal tea. The American Red

Who you could Help

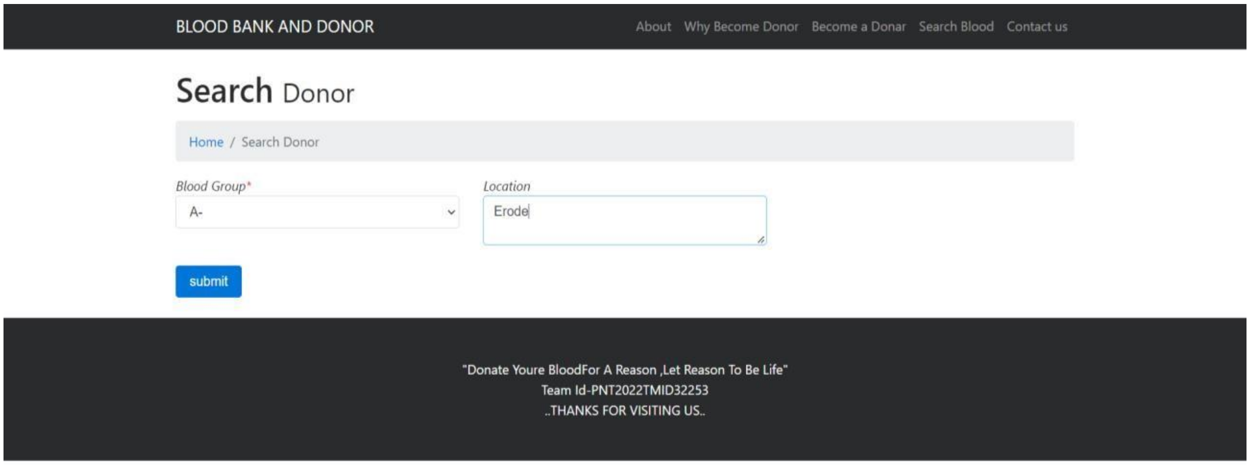
Group B can donate red blood cells to B's and AB's. Group A can donate red blood cells to A's and AB's. Group O can donate red blood cells to



Become a Donor

*Full Name**	*Mobile Number**	*Email Id**
Boopalan G	8098611625	boopalan2002@gmail.com
*Age**	*Gender**	*Blood Group**
23	Male	A-
*Address**	*Message*	
Erode		

"Donate Youre BloodFor A Reason ,Let Reason To Be Life"
Team Id-PNT2022TMID32253
..THANKS FOR VISITING US..

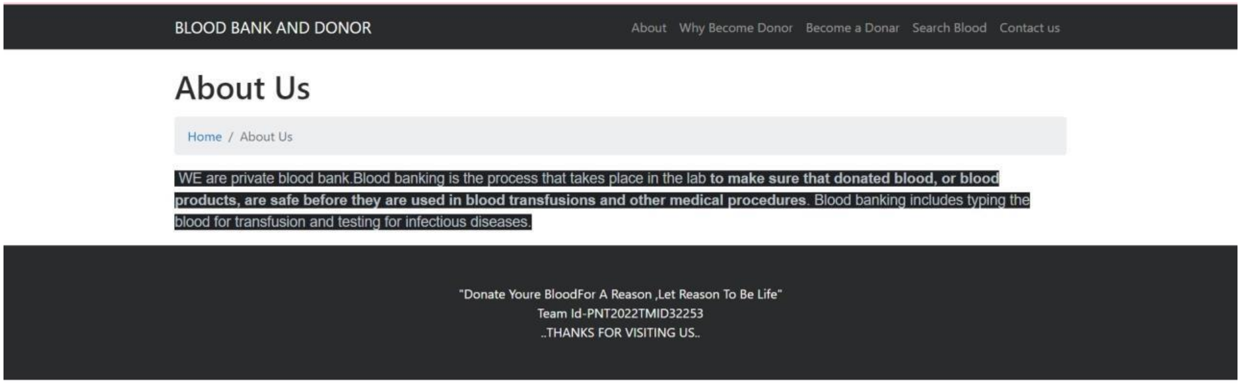


Search Donor

Blood Group*: A-

Location: Erode

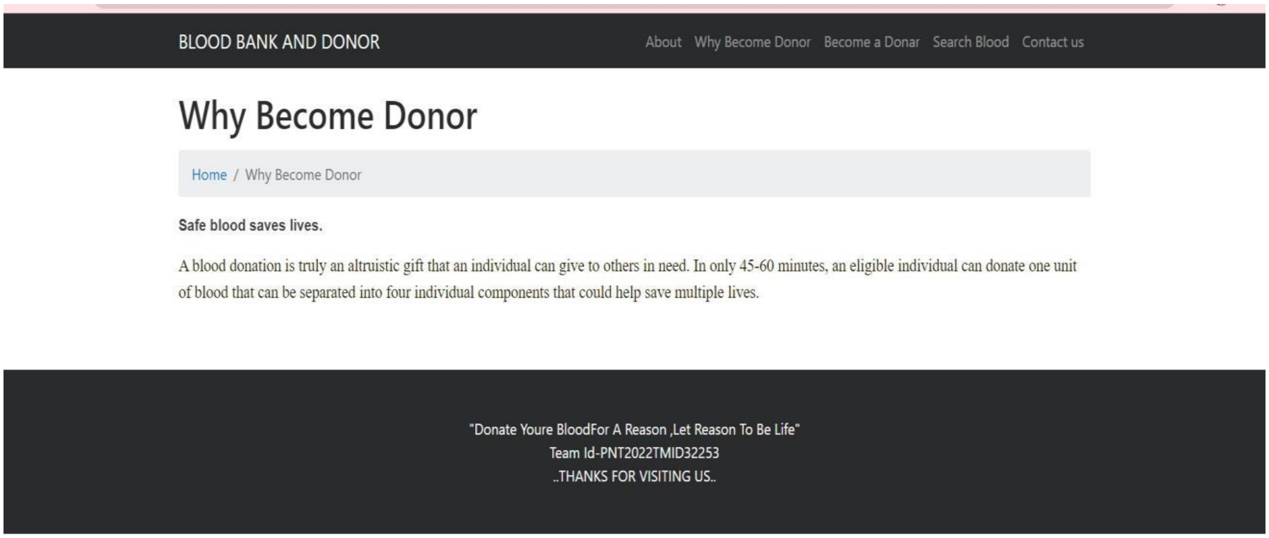
"Donate Youre BloodFor A Reason ,Let Reason To Be Life"
Team Id-PNT2022TMID32253
..THANKS FOR VISITING US..



About Us

WE are private blood bank.Blood banking is the process that takes place in the lab **to make sure that donated blood, or blood products, are safe before they are used in blood transfusions and other medical procedures**. Blood banking includes typing the blood for transfusion and testing for infectious diseases.

"Donate Youre BloodFor A Reason ,Let Reason To Be Life"
Team Id-PNT2022TMID32253
..THANKS FOR VISITING US..



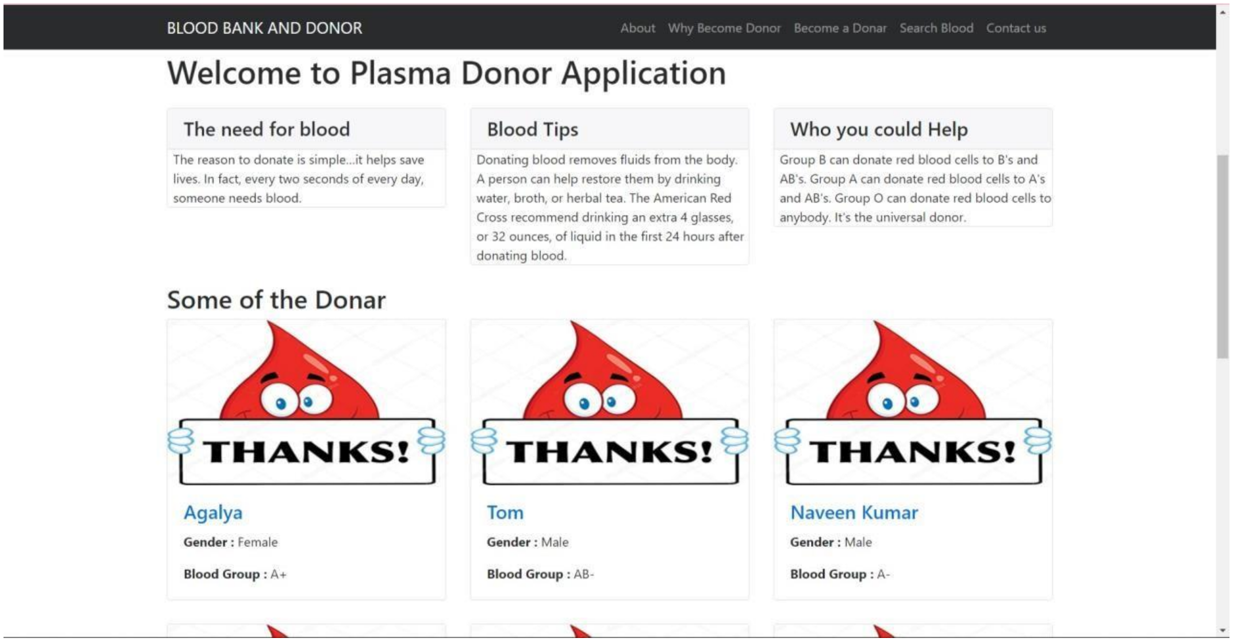
Why Become Donor

Home / Why Become Donor

Safe blood saves lives.

A blood donation is truly an altruistic gift that an individual can give to others in need. In only 45-60 minutes, an eligible individual can donate one unit of blood that can be separated into four individual components that could help save multiple lives.

"Donate Youre BloodFor A Reason ,Let Reason To Be Life"
Team Id-PNT2022TMID32253
..THANKS FOR VISITING US..



Welcome to Plasma Donor Application

The need for blood

The reason to donate is simple...it helps save lives. In fact, every two seconds of every day, someone needs blood.

Blood Tips

Donating blood removes fluids from the body. A person can help restore them by drinking water, broth, or herbal tea. The American Red Cross recommend drinking an extra 4 glasses, or 32 ounces, of liquid in the first 24 hours after donating blood.

Who you could Help

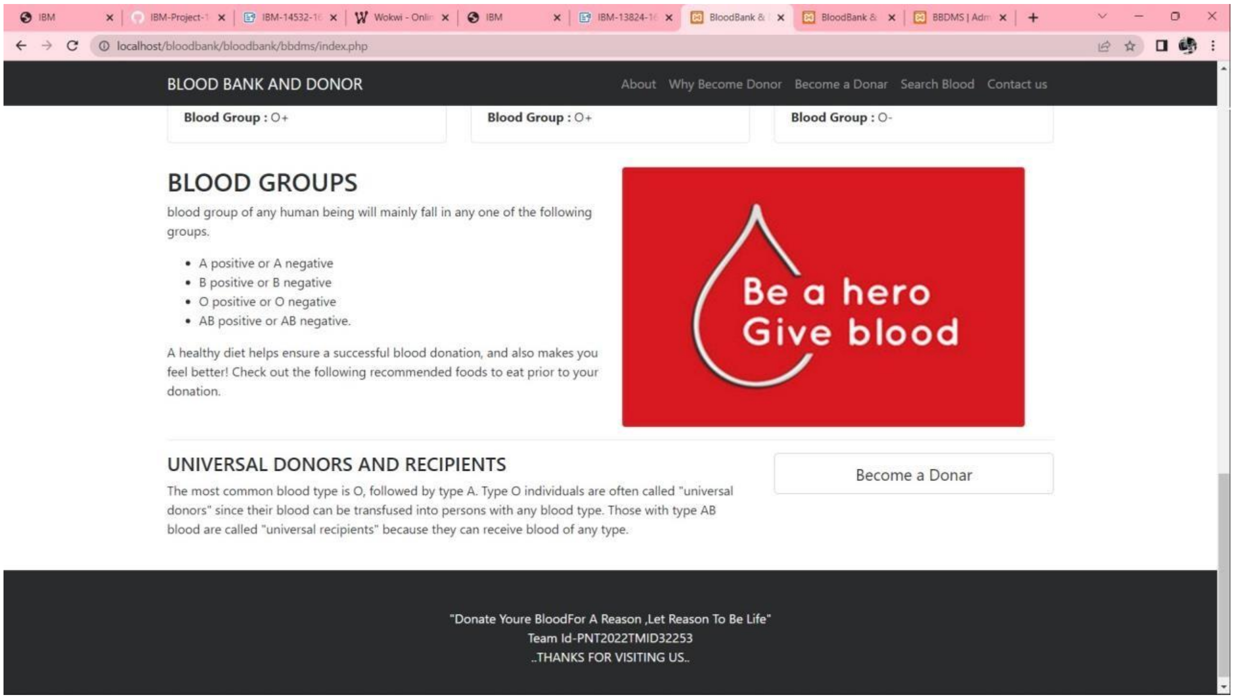
Group B can donate red blood cells to B's and AB's. Group A can donate red blood cells to A's and AB's. Group O can donate red blood cells to anybody. It's the universal donor.

Some of the Donar

Agalya
Gender : Female
Blood Group : A+

Tom
Gender : Male
Blood Group : AB-

Naveen Kumar
Gender : Male
Blood Group : A-



localhost/bloodbank/bloodbank/bbdms/index.php

Blood Group : O+

Blood Group : O+

Blood Group : O-

BLOOD GROUPS

blood group of any human being will mainly fall in any one of the following groups.

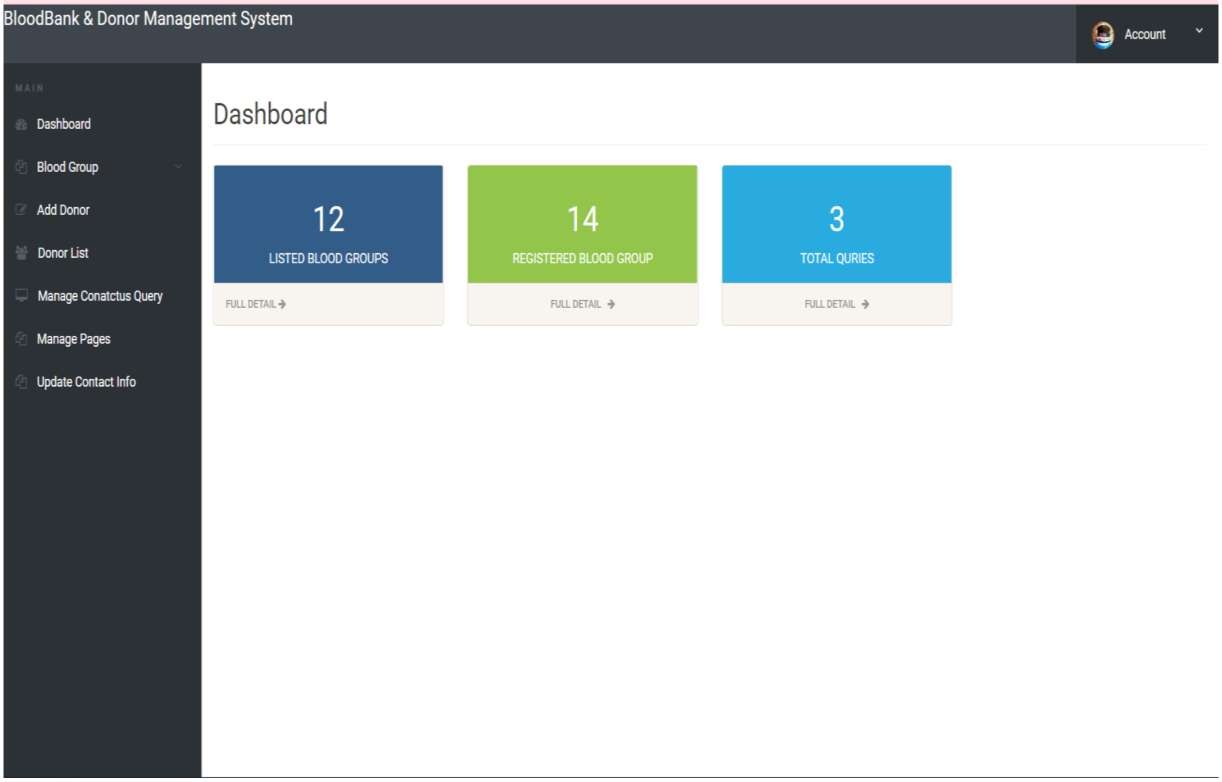
- A positive or A negative
- B positive or B negative
- O positive or O negative
- AB positive or AB negative.

A healthy diet helps ensure a successful blood donation, and also makes you feel better! Check out the following recommended foods to eat prior to your donation.

UNIVERSAL DONORS AND RECIPIENTS

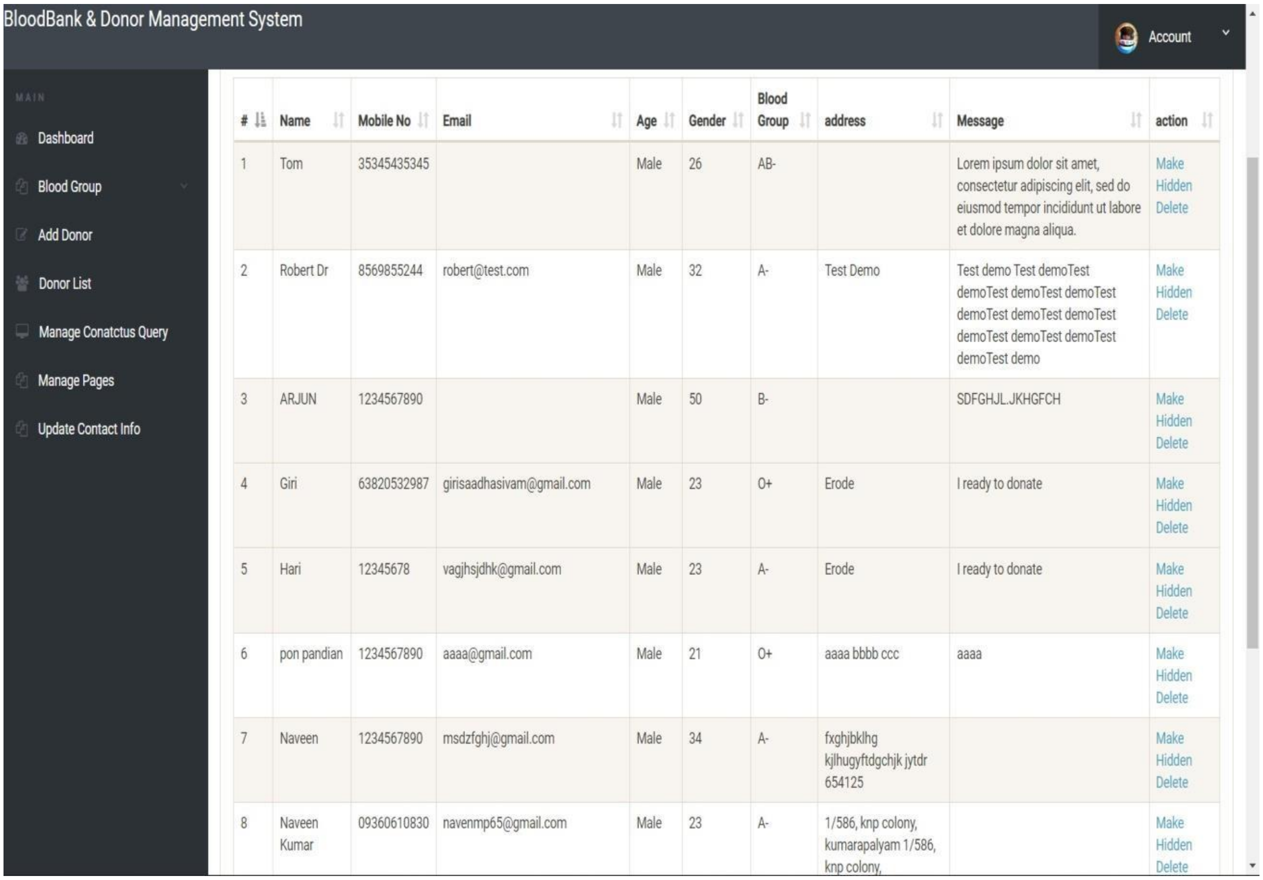
The most common blood type is O, followed by type A. Type O individuals are often called "universal donors" since their blood can be transfused into persons with any blood type. Those with type AB blood are called "universal recipients" because they can receive blood of any type.

"Donate Youre BloodFor A Reason ,Let Reason To Be Life"
Team Id-PNT2022TMID32253
..THANKS FOR VISITING US..

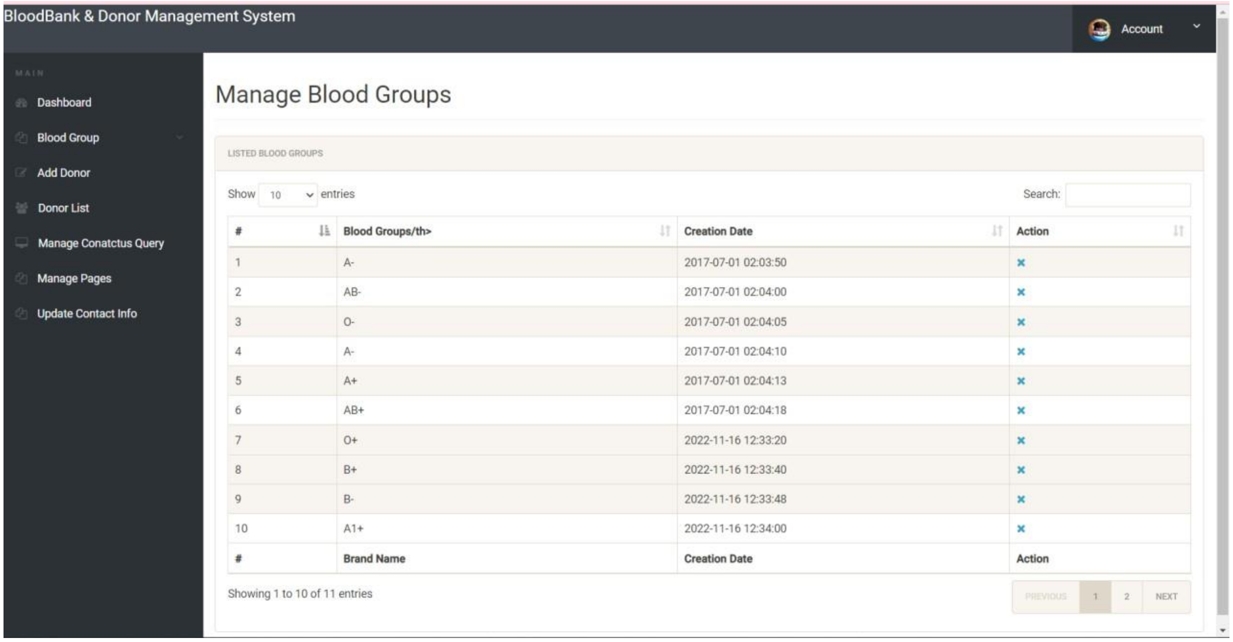


Dashboard

12	14	3
LISTED BLOOD GROUPS	REGISTERED BLOOD GROUP	TOTAL QURIES
FULL DETAIL →	FULL DETAIL →	FULL DETAIL →



#	Name	Mobile No	Email	Age	Gender	Blood Group	address	Message	action
1	Tom	35345435345		Male	26	AB-		Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	Make Hidden Delete
2	Robert Dr	8569855244	robert@test.com	Male	32	A-	Test Demo	Test demo Test demoTest demoTest demoTest demoTest demoTest demoTest demoTest demoTest demoTest demoTest demoTest demo	Make Hidden Delete
3	ARJUN	1234567890		Male	50	B-		SDFGHJL.JKHGFCH	Make Hidden Delete
4	Giri	63820532987	girisaadhasivam@gmail.com	Male	23	O+	Erode	I ready to donate	Make Hidden Delete
5	Hari	12345678	vagjhsjdhk@gmail.com	Male	23	A-	Erode	I ready to donate	Make Hidden Delete
6	pon pandian	1234567890	aaaa@gmail.com	Male	21	O+	aaaa bbbb ccc	aaaa	Make Hidden Delete
7	Naveen	1234567890	msdzfghj@gmail.com	Male	34	A-	fxghjbklhg kjlhugyftdgchjk jytdr 654125		Make Hidden Delete
8	Naveen Kumar	09360610830	navenmp65@gmail.com	Male	23	A-	1/586, knp colony, kumarapalyam 1/586, knp colony,		Make Hidden Delete

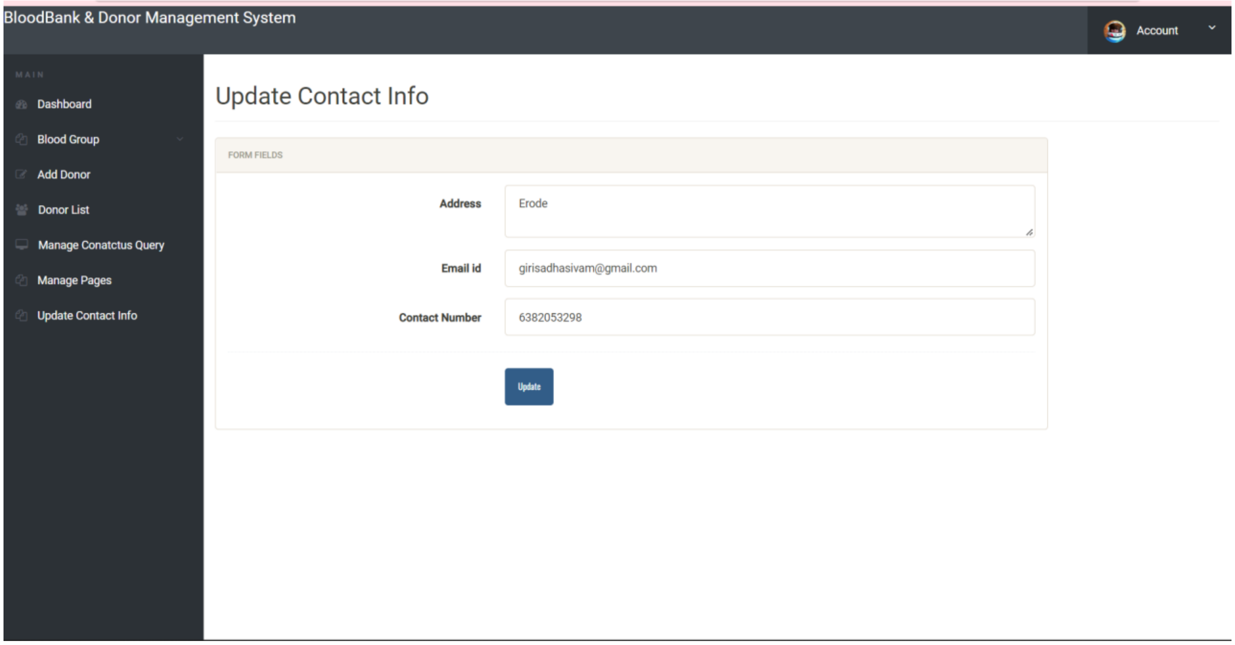


Manage Blood Groups

LISTED BLOOD GROUPS

#	Blood Groups/th>	Creation Date	Action
1	A-	2017-07-01 02:03:50	✖
2	AB-	2017-07-01 02:04:00	✖
3	O-	2017-07-01 02:04:05	✖
4	A-	2017-07-01 02:04:10	✖
5	A+	2017-07-01 02:04:13	✖
6	AB+	2017-07-01 02:04:18	✖
7	O+	2022-11-16 12:33:20	✖
8	B+	2022-11-16 12:33:40	✖
9	B-	2022-11-16 12:33:48	✖
10	A1+	2022-11-16 12:34:00	✖
#	Brand Name	Creation Date	Action

Showing 1 to 10 of 11 entries



Update Contact Info

FORM FIELDS

Address	Erode
Email id	girisadhasivam@gmail.com
Contact Number	6382053298

8. Testing

8.1 Performance Testing

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Regression Model:** Logistic Regression **Classification Model:** • Confusion Matrix - [[0 5] [1 74]] • Accuracy Score - 92.50000 • Recall Score – 98.666667 • ROC Score – 49.333333 • Classification Report : precision - 0.88 support - 80 f1-score - 0.90 recall - 0.93	
2.	Tune The Model	Hyper parameter Tuning:(GridSearchCV) clf.best_score_ - 0.921875 Validation Method – GridSearchCV (e estimator=SVC()	

8.2 User Acceptance Testing

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the Exploratory Analysis Of Rainfall Data In India For Agriculture project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

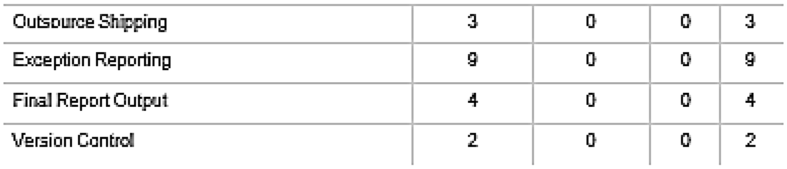
This report shows the number of resolved or closed bugs at each severity level, and how they were resolved

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	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	77

3. Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	30	0	0	30
Security	2	0	0	2



Outsource Shipping	3	0	0	3
Exception Reporting	9	0	0	9
Final Report Output	4	0	0	4
Version Control	2	0	0	2

9. RESULTS

9.1 Performance Metrics

Software quality is a measurement of something intangible, “how good” a software product really is. Some of the aspects of so ftware
quality taken are

a. Scalability
b. Speed
c. Stability
d. Reliability
e. Security
f. Maintainability and code quality

LOAD TEST

Scenario Name	Load Test – Plasma Donor application
Scenario Type	Load Test – Duration 1 hour
Scenario Objective	To Simulate the peak load and to monitor the performance of the Website
Steps	The online load will be maintained at steady state
Entry Criteria	The online load will be maintained at steady state
Exit Criteria	The online load will be maintained at steady state

STRESS TEST

Scenario Name	Stress Test - Plasma Donor application
Scenario Type	Stress Test
Scenario Objective	Objective is to verify that the application can handle the projected growth and to discover the breaking point
Steps	Ramp up to 150% of peak volume and continuously increase load until breaking point
Entry Criteria	All the monitors are in place Test Data is set up Peak load test completed successfully
Exit Criteria	Test completion report is agreed upon as per expectation

ENDURANCE / SOAK TEST:

Scenario Name	Soak Test - Exploratory Analysis of Rainfall Data in India for Agriculture
Scenario Type	Endurance – Duration 8 hours
Scenario Objective	To discover memory issues and bottlenecks that might occur under daily usage of the application
Steps	Steady state is maintained for 8 hours with half of the peak load
Entry Criteria	All the monitors are in place Test Data is set up Peak load test completed successfully
Exit Criteria	Test completion report is agreed upon as per expectation

10. ADVANTAGES :

- Have internal or external bleeding due to an injury
- Have sickle cell disease or another illness that affects the blood
- Are undergoing cancer treatment
- Are undergoing surgery, such as cardiovascular or orthopedic surgery
- Have an inherited blood disorder
- Are undergoing a transplant
- Need treatments involving plasma or other blood products

DISADVANTAGES:

Safety precautions they take include:

- screening donors for existing health conditions
- using new needles for each donation
- having professional staff on hand
- providing monitoring and refreshments to ensure a safe recovery

11. CONCLUSION

1. This Website gives accurate Plasma donors information it will very helpful.
2. It helps for whom need blood.

12. FUTURE SCOPE

1. The demand for plasma donor grown rapidly during the last decade and will grow even faster in coming years.
2. Plasma donor application of the state of the atmosphere for a given location using this website
3. It is a special kind of short range forecast carried out for the protection of human life

13. APPENDIX

Source Code:

login.html

```
<Html>
<head>
<title>login</title>
<body>
<br>
<br>
```

```
<center>
<div class="card text-left" style="width: 35rem;">
  <div class="card-body">

    <form action = "{{url_for('login')}}" method = "POST">
<div class="form-group">
  <label for="exampleInputEmail1">Email address</label>
  <input type="email" name ="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp" placeholder="Enter email" required>
  <small id="emailHelp" class="form-text text-muted">We'll never share your email with anyone else.</small>
</div>
<div class="form-group">
  <label for="exampleInputPassword1">Password</label>
  <input type="password"  name ="pass" class="form-control" id="exampleInputPassword1" placeholder="Password" required>
</div>
```

```
<button type="submit" class="btn btn-primary">Login</button>
</form>

  </div>
</div>
</center>
</body>
</html>
```

Signup.html

```
<Html>
<head>
<title>login</title>
<body>
<center>
<div class="card text-left" style="width: 35rem;">
  <div class="card-body">
       <div class="form-group">
      <form action = "{{url_for('addrec')}}" method = "POST">
         <h3>Register as Donor</h3>
         <label for="name">Name</label>
```

```
        <input type = "text" name = "nm" class="form-control" required/>

         <label for="addr">Address</label>
        <textarea name = "add" class="form-control" required></textarea>

         <label for="city">City</label>
        <input type = "text" name = "city" class="form-control" required/>

         <label for="pin">postal code</label>
        <input type = "text" name = "pin" class="form-control" required/>

        <label for="Bloodgroup">Blood Group</label>
        <select name="bg" class="form-control" id="exampleFormControlSelect1">
          <option value="O+" selected>O+</option>
          <option value="O-">O-</option>
          <option value="A+">A+</option>
          <option value="A-">A-</option>
          <option value="B+">B+</option>
          <option value="B-">B-</option>
          <option value="AB+">AB+</option>
          <option value="AB-">AB-</option>
        </select>

        <label for="exampleInputEmail1">Email address</label>
        <input type = "text" name ="email" class="form-control" required/>

        <label for="exampleInputPassword1">Password</label>
        <input type = "password" name ="pass" class="form-control" required/>
        <br>
        <button type="submit" class="btn btn-primary">Register</button>
      </form>
      </div>
      </div>
      </center>
      </body>
  </html>
```

Requestdonor.html

```
<!doctype html>
{% extends "base.html" %}
{% block content %}{% with messages =
get_flashed_messages() %}
{%if messages%}
    {%for mess in messages%}
  <div class="alert alert-warning alert-dismissible fade
show" role="alert">
<strong>{{mess}}</strong>
<button type="button" class="close" data-dismiss="alert"
aria-label="Close">
  <span aria-hidden="true">&times;</span>
</button>
</div>
{%endfor%}
{%endif%}
{% endwith
{% if session['logged_in'] == True %}
{%else%}
 {%endif%}
```

```
<br>

  <div class="card border-danger text-center">
      <div class="card-header">Total Blood in Blood
bank</div>
      <div class="card-body text-danger">
        <h5  class="card-title"><span  class='numscroller'
data-min='1'  data-max='{{totalblood}}'  data-delay='5'
data-increment='10'>{{totalblood}}</span> pints</h5>
      </div>
    </div>

<br>



        <div class="container">
  <div class="row">
    <div class="col"><div class="card text-white bg-
primary mb-3" style="max-width: 18rem;">
      <div class="card-header">A positive</div>
    <div class="card-body">
      <h5 class="card-title"><span class='numscroller' data-
```

```
min='1' data-max='{{bloodtypestotal.apos}}' data-
delay='5' data-
increment='10'>{{bloodtypestotal.apos}}</span>
pints</h5>

    </div>
  </div></div>
    <div class="col"><div class="card text-white bg-
secondary mb-3" style="max-width: 18rem;">
      <div class="card-header">A negative</div>
    <div class="card-body">
      <h5 class="card-title"><span class="count"><span
class='numscroller' data-min='1' data-
max='{{bloodtypestotal.aneg}}' data-delay='5' data-
increment='10'>{{bloodtypestotal.aneg}}</span></span>
pints</h5>

    </div>
    </div></div>
    <div class="col"><div class="card text-white bg-
success mb-3" style="max-width: 18rem;">
      <div class="card-header">B positive</div>
    <div class="card-body">
```

```
      <h5 class="card-title"><span class='numscroller' data-
min='1' data-max='{{bloodtypestotal.bpos}}' data-
delay='5' data-
increment='10'>{{bloodtypestotal.bpos}}</span>
pints</h5>

    </div>
    </div></div>
    <div class="col"><div class="card text-white bg-
danger mb-3" style="max-width: 18rem;">
      <div class="card-header">B negative</div>
    <div class="card-body">
      <h5 class="card-title"><span class='numscroller' data-
min='1' data-max='{{bloodtypestotal.bneg}}' data-
delay='5' data-
increment='10'>{{bloodtypestotal.bneg}}</span>
pints</h5>
      <p class="card-text"></p>
    </div>
    </div></div>

    <div class="w-100"></div>
    <div class="col"><div class="card text-white bg-
warning mb-3" style="max-width: 18rem;">
      <div class="card-header">AB positive</div>
    <div class="card-body">
      <h5 class="card-title"><span class='numscroller' data-
min='1' data-max='{{bloodtypestotal.abpos}}' data-
delay='5' data-
increment='10'>{{bloodtypestotal.abpos}}</span>
pints</h5>

    </div>
    </div></div>
    <div class="col"><div class="card text-white bg-info
mb-3" style="max-width: 18rem;">
      <div class="card-header">AB negative</div>
    <div class="card-body">
      <h5 class="card-title"><span class="count"><span
class='numscroller' data-min='1' data-
max='{{bloodtypestotal.abneg}}' data-delay='5' data-
increment='10'>{{bloodtypestotal.abneg}}</span></spa
n> pints</h5>

    </div>
    </div></div>
    <div class="col"><div class="card bg-light mb-3"
style="max-width: 18rem;">
      <div class="card-header">O positive</div>
    <div class="card-body">
      <h5 class="card-title"><span class="count"><span
class='numscroller' data-min='1' data-
max='{{bloodtypestotal.opos}}' data-delay='5' data-
increment='10'>{{bloodtypestotal.opos}}</span>
pints</h5>

    </div>
    </div></div>
    <div class="col"><div class="card text-white bg-dark
mb-3" style="max-width: 18rem;">
      <div class="card-header">O negtive</div>
    <div class="card-body">
      <h5 class="card-title"><span class="count"><span
class='numscroller' data-min='1' data-
max='{{bloodtypestotal.oneg}}' data-delay='5' data-
increment='10'>{{bloodtypestotal.oneg}}</span>
pints</h5> </div>
    </div></div>
```

```
 <div class="alert alert-primary" role="alert">
  <h4>blood donatations and their details</h4>{% for row
in rows %}
           <div class="card">
             <h5 class="card-
header">{{row["donorname"]}}</h5>
             <div class="card-body">
               <h5 class="card-title">{{row["type"]}}</h5>
               <p class="card-text">{{ row["donoremail"]}}
               {{row['donorsex']}}
               {{row['qty']}} pints
               {{row['dweight']}}kg's
               {{row['phone']}}</p>
               <div class="row">
    <div class="col">
      <form action="{{url_for('editdonor',id=row['id'])}}"
method="GET">
      <input type="submit" class="btn btn-primary"
name="button" value="edit"/>
      </form>
    </div>
    <div class="col">
      <form
```

```
action="{{url_for('deletebloodentry',id=row['id'])}}"
method="GET">
   <input type="submit" name="button" class="btn btn-
danger" value="delete entry"/>
   </form>
  {% endfor %}
<br>
     <nav aria-label="breadcrumb">
      <ol class="breadcrumb">
       <li class="breadcrumb-item active" aria-
current="page">  Registered donores:</li>
      </ol>
     <table class="table">
      <thead>
  <tr>
   <th scope="col">name</th>
   <th scope="col">address</th>
   <th scope="col">city</th>
   <th scope="col">pin</th>
   <th scope="col">blood group</th>
   <th scope="col">email</th>
   <th scope="col">contact them</th>
   <th scope="col">delete</th>
  </thead>{% for r in users %}
       <tr>
         <td>{{r["name"]}}</td>
         <td>{{r["addr"]}}</td>
         <td> {{ r["city"]}}</td>
         <td>{{r['pin']}}</td>
         <td>{{r['bg']}}</td>
         <td>{{r['email']}}</td>
         <td><button type="button" class="btn btn-
primary mt-1" data-toggle="modal" data-
target="#exampleModalCenter">
  contact for blood
 </button>
 <div class="modal fade" id="exampleModalCenter"
tabindex="-1" role="dialog" aria-
labelledby="exampleModalCenterTitle" aria-
hidden="true">
  <div class="modal-dialog modal-dialog-centered"
role="document">
   <div class="modal-content">
    <div class="modal-header">
     <h5 class="modal-title"
id="exampleModalCenterTitle">contact for blood</h5>
```

```
          <button type="button" class="close" data-dismiss="modal" aria-label="Close">
            <span aria-hidden="true">&times;</span>
          </button>
        </div>
        <div class="modal-body">
          <form method="POST" action="{{url_for('contactforblood',emailid=r['email'])}}">
            <label for="name">Name</label>
            <input type = "text" name = "nm" value="admin@bloodbank.com" class="form-control" required/>
          <label for="addr"> confirm your Address</label>
         <input type="text" name="add" class="form-control" value="admin's address" required></textarea>
         <button type="button" class="btn btn-secondary mt-1" data-dismiss="modal">Close</button>
          <button type="submit" class="btn btn-primary mt-1">send request</button>
        </div>
      </div>
    </div>
```

```
  </div>
</td>
                <td><a href =
"{{url_for('deleteuser',useremail=r['email'])}}" class="btn
btn-danger">delete user</a></td>
              </tr>
         </body>
</html>
```

GITHUB LINK :

https://github.com/IBM-EPBL/IBM-Project-19243-1659694749

PROJECT DEMO LINK:

https://drive.google.com/file/d/1nBT16wRA_HCPuWsCQIU1DqLXLNtX-Vvy/view?usp=sharing