

CLOUD APPLICATION DEVELOPMENT – PLASMA DONOR APPLICATION

PROJECT REPORT

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Project Report

1. INTRODUCTION

- 1.1 Project Overview
- 1.2 Purpose

2. LITERATURE SURVEY

- 2.1 Existing problem
- 2.2 References
- 2.3 Problem Statement Definition

3. IDEATION & PROPOSED SOLUTION

- 3.1 Empathy Map Canvas
- 3.2 Ideation & Brainstorming
- 3.3 Proposed Solution
- 3.4 Problem Solution fit

4. REQUIREMENT ANALYSIS

- 4.1 Functional requirement
- 4.2 Non-Functional requirements

5. PROJECT DESIGN

- 5.1 Data Flow Diagrams
- 5.2 Solution & Technical Architecture
- 5.3 User Stories

6. PROJECT PLANNING & SCHEDULING

- 6.1 Sprint Planning & Estimation
- 6.2 Sprint Delivery Schedule
- 6.3 Reports from JIRA

7. CODING & SOLUTIONING (Explain the features added in the project along with code)

- 7.1 Feature 1
- 7.2 Feature 2
- 7.3 Database Schema (if Applicable)

8. TESTING

- 8.1 Test Cases
- 8.2 User Acceptance Testing

9. RESULTS

- 9.1 Performance Metrics

10. ADVANTAGES & DISADVANTAGES

11. CONCLUSION

12. FUTURE SCOPE

13. APPENDIX

- Source Code
- GitHub & Project Demo Link

1.INTRODUCTION

1.1 Project Overview:

During the covid-19 crisis ,the requirement of plasma became high and the donor count is being low. It is very difficult to find the respective blood group donors when anyone is in need. The necessity of blood has become a significant concern in the present state. An efficient flow of blood is required in blood donation camps to meet the regular demands of recipients. A bag of blood can save a precious life. Statistics show that a tremendous amount of blood is needed yearly and many voluntary blood donors are quite promising in many countries to donate their blood.

1.2 Purpose:

In regard to the problem faced, our purpose is to built a web application which would provide the quickest solution to find the plasma donors. Our system would save the donor information and helping the need by notifying the nearest donors would be a helping hand at the right time.

2.LITERATURE SURVEY

B82A4E- PLASMA DONOR APPLICATION

LITERATURE SURVEY

1.BLOOD DONAR American red cross APP

The American Red Cross Blood Donor App puts the power to save lives in the palm of your hand. Donating blood, platelets and AB Plasma is now easier than ever.

- Find local blood drives and donation centers quickly and easily
- Convenient, easy appointment scheduling and rescheduling

Advantage:

- Easy to use.
- It works smooth and visually appealing

Disadvantage:

- The app had no specific location details for where the donations were being taken within the hospital.
- The scheduling part of this app is poorly designed.

2.DELHIFIGHTSCORONO

The Delhi government has launched the country's first plasma bank. If you are a recovered Corona patient, come forward and donate your plasma.

Your contribution may help save a life!

ADVANTAGE:

- It is specifically created for covid-19 patients

DISADVANTAGE:

- It is not specific for proper plasma donor application

2.2 Problem Statement Definition:

B82A4E- PLASMA DONOR APPLICATION

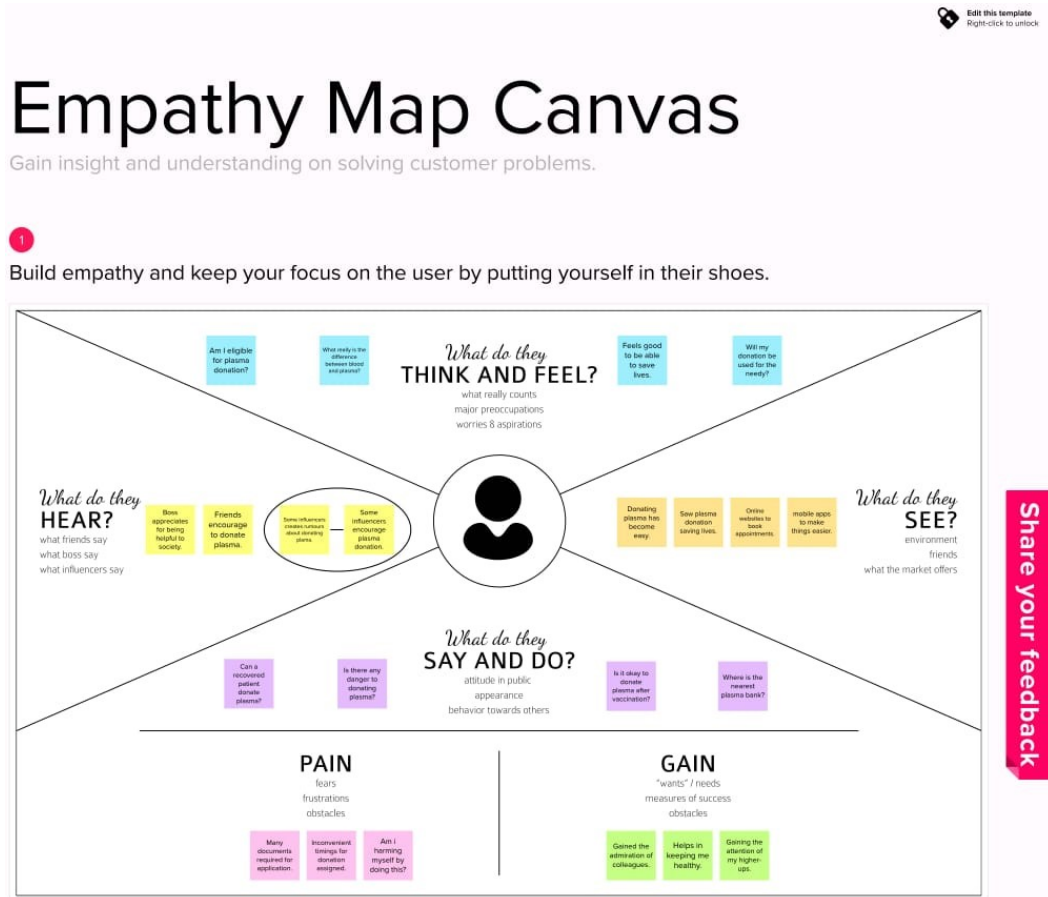
PROBLEM STATEMENT

During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. It is very difficult to find the respective blood group donors when anyone is in need. In regard to the problem faced, an application is to be built which would take the donor details, store it, and inform them upon a request.

Who does the problem affect?	<ul style="list-style-type: none">▪ Patients▪ Hospital Management▪ Donor
What are the boundaries of the problem?	<ul style="list-style-type: none">▪ Blood bank▪ Volunteers camps
What is the issue?	<ul style="list-style-type: none">▪ Unavailability of plasma donors.▪ Donors are not being notified at the right time when plasma needed.▪ Hospital management has difficulty at communicating with donors.▪ Time for donation and work time clash.
When does the issue occur?	<ul style="list-style-type: none">▪ When the patients are in need of plasma, but donor couldn't reach them at right time.▪ While finding rare blood groups.
Where is the issue occurring?	<ul style="list-style-type: none">▪ Delayed notification tends to happen▪ While entering details, blood group may be wrongly registered.
Why is it important that we fix the problem?	<ul style="list-style-type: none">▪ To increase the plasma donors & to create awareness among people.▪ Easy accessible and reliable to donors.▪ It is important to save lives of people.▪ To make organizations realize it is important to encourage their employees to donate plasma.

3.IDEATION&PROPOSEDSOLUTION

3.1 Empathy Map:



3.3 Proposed Solution:

Project Design Phase-I Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID49597
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. It is very difficult to find the respective blood group donors when anyone is in need. The donors also face a lot of inconvenience when using the system to donate plasma. In regard to the problem faced, an application is to be built which would take the donor details store it and inform them upon a request all the while making it more convenient to use.
2.	Idea / Solution description	The donors can register their details in the application. Their registered details will be saved in the database. When there is a need for plasma, the relevant donors will be alerted via their mail. The location to the where the plasma is needed will be given in mail. Donors can also schedule appointments to their convenience, to donate plasma to the plasma bank.
3.	Novelty / Uniqueness	Our application is unique in the fact that it is very convenient for the donor. It has a unique, simple and elegant User Interface that makes it much easier to understand and navigate.
4.	Social Impact / Customer Satisfaction	It promotes awareness for plasma donation. It attracts many willing donors because of its convenience. It assures people that plasma is available at anytime, anywhere by contacting all relevant donors by mail, largely reducing the worry of patients.
5.	Business Model (Revenue Model)	This application can collaborate with the Government and Non-Profitable Organizations where they can utilize the application for helping people and pays us a

		certain amount every year for its maintenance.
6.	Scalability of the Solution	Adequate number of donors can register themselves. A large amount of requests for plasma donation can be processed at the same time.

3.4 Problem Solution Fit:

Problem-Solution fit canvas 2.0		Purpose / Vision		Team Id- PNT2022TMID49597 Project Name: PLASMA DONOR APPLICATION	
1. CUSTOMER SEGMENT(S) CS 1.Donors (age 18+) 2.Patient 3.Hospitals		6. CUSTOMER CONSTRAINTS CC 1 Regular Internet connection 2 Smartphone/laptop/Desktop		5. AVAILABLE SOLUTIONS AS The existing application used only collecting details of donors but it does not notify them at the right time. Our solution is building a website that notifies the donors at the right time, which will save lives.	
2. JOBS-TO-BE-DONE / PROBLEMS J&P Difficult to find donors at the right time / at the time of emergency Donors not aware of plasma requirements.		9. PROBLEM ROOT CAUSE RC Not able to find the donors at the time of emergency. Count of donors has been tremendously decreasing since hospital management couldn't contact them or get them notified at the right time when plasma is needed.		7. BEHAVIOUR BE The customer comes forward to 1. Attending plasma donation camps. 2. Donate blood / Plasma The hospital management/ patient is able to find plasma donors at the right time	
3. TRIGGERS TR The fact that triggers the Customers(donors) is people are loosing life because of not getting plasma at the time of emergency and also its also social responsibility to donate plasma and save lives.		10. YOUR SOLUTION SL Creating website which notify the donors when plasma is needed and send a request notification to donors. This website will link the plasma donors with the patients who are in need of plasma		8. CHANNELS of BEHAVIOUR CH Online: Can use the website to find donors. Offline: Can use the record maintained by the hospital.	
4. EMOTIONS: BEFORE / AFTER EM Before: Patient/ hospital find it hard to get a right resource to get plasma leaving them upset After: Notify the donor immediately via notification and the customer get the required plasma leaving them happy and satisfied					

Focus on J&P, tap into BE, understand RC
 Explore AS, differentiate
 Focus on J&P, tap into BE, understand RC
 Identify strong TR & EM

Problem-Solution fit canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license.
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4.REQUIREMENT ANALYSIS

4.1 Functional & Non-Functional requirements:

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	14 October 2022
Team ID	PNT2022PMID49597
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Recipient Registration	Registration through Form Registration through Gmail
FR-4	Recipient Confirmation	Confirmation via Email
FR-5	Recipient Notify Donors	Notify Donors via Email
FR-6	Donor Reply to Recipient	Notify Recipient via Email

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	It becomes easier for the donors to use this application for donating plasma, which in turn increases the number of users.
NFR-2	Security	All the user information will be handled by the admin and securely stored in database which cannot be accessed by anyone else.
NFR-3	Reliability	This application will intimate the donors to provide the correct information if any wrong data is entered, thus providing reliable information for recipient and vice versa.
NFR-4	Performance	The application performs in a better way for the donors as well as for the recipients thus making their work much easier.
NFR-5	Availability	This application is available for both donors and recipients at any time, any place.
NFR-6	Scalability	Adequate number of donors and recipient can get Registered and it can handle an adequate number of requests.

5. PROJECT DESIGN

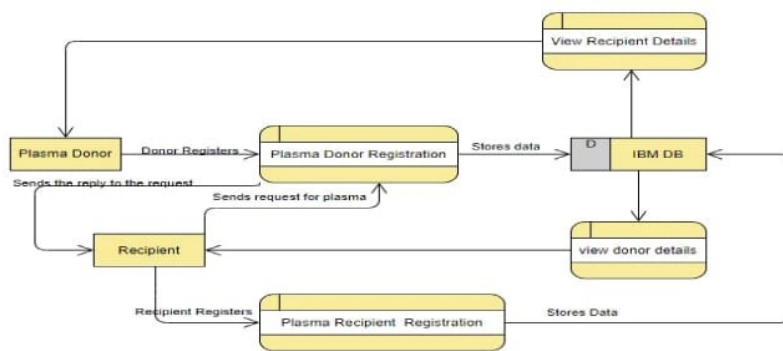
5.1 Data Flow Diagram:

Project Design Phase-II
Data Flow Diagram & User Stories

Date	15 October 2022
Team ID	PNT2022PMID49597
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



5.2 User Stories:

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	Priority	Release
Customer (Donor)	Registration	USN-1	As a DONOR, I can register for the application by entering my name, email, password, Blood Group, Address, mobile number and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a DONOR, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a DONOR, I can register in the application through Gmail	I can register & access the dashboard with Gmail Login	Low	Sprint-2
	Login	USN-4	As a DONOR, I can log into the application by entering email & password	I can register & access the dashboard with Login	Medium	Sprint-1
	Respond to Request	USN-5	As a DONOR, I can send my response to the Recipients request for plasma.	I can send my response.	High	Sprint-1
	Dashboard	USN-6	As a DONOR, I can see the information about my application	I can see the dashboard with Register or login	Medium	Sprint-2
Customer (Recipient)	Registration	USN-7	As a RECIPIENT, I can register in the application by entering my name, email, Password, Organization name, Address, mobile number and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Login	USN-8	As a RECIPIENT, I can log into the application by entering email & password	I can register & access the dashboard with Login	Medium	Sprint-1
	Request Notification	USN-9	As a RECIPIENT, I can send Request to the Donors by notifying them at the right time, i.e., when plasma needed	I can register & send the Request	High	Sprint-2
	Response from Donor	USN-10	As a RECIPIENT, I can Receive response from Donors	I can Send Request & Get response from Donors	High	Sprint-2

5.3 Solution & Technical Architecture:

**Project Design Phase-II
Technology Stack (Architecture & Stack)**

Date	14 October 2022
Team ID	PNT2022TMID49597
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

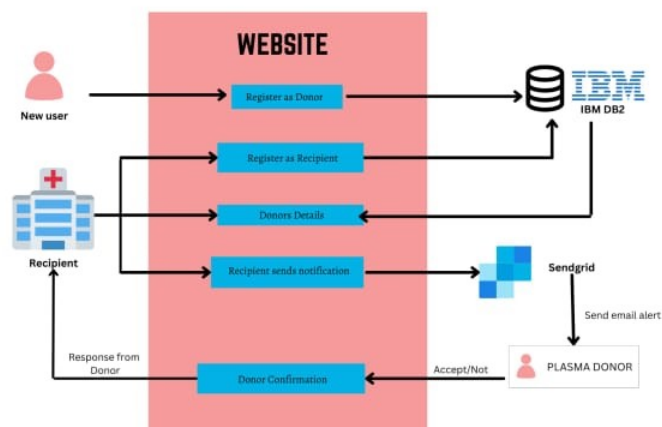


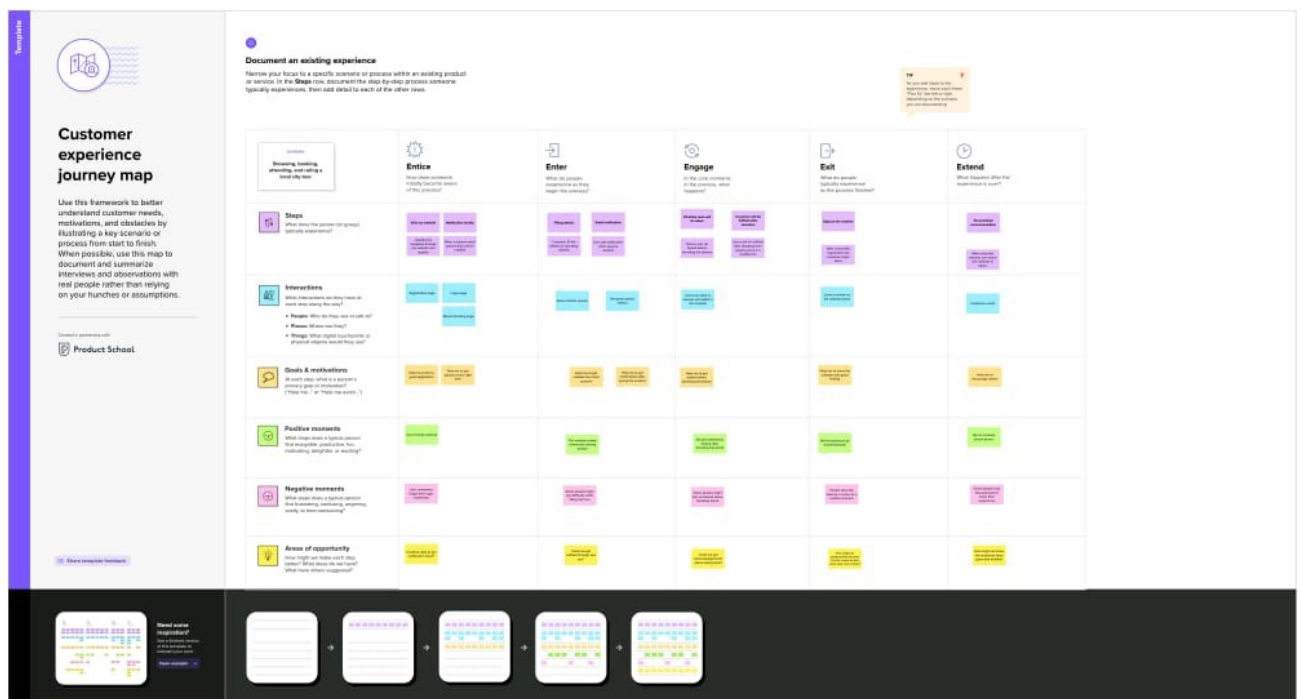
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interact with application using form, login, Request notification	Python FLASK, HTML, CSS
2.	Registration (Donor)	Donors register in the application to Donate the plasma	Python FLASK, HTML, CSS, IBM DB2
3.	Registration (Recipient)	Recipients register in the application to get a Donors	Python FLASK, HTML, CSS, IBM DB2
4.	Notification Request	This sends the notification to the Donors	Python FLASK, HTML, CSS, IBM DB2
5.	SendGrid	Sends email alert on a request of plasma Donor	sendgrid
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	Kubernetes cluster	Run Containerized application	IBM Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Docker is used for Open Source Framework	DOCKER
2.	Scalable Architecture	It connected with Scalable Architecture	IBM DB2
3.	Availability	This application is anytime accessible	Python FLASK
4.	Performance	Record resource requests and save Registered information. Availability of application	IBM DB2

5.4 Customer Journey Map:



6.PROJECT PLANNING& SCHEDULING

6.1 Sprint Planning & Estimation:

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	22 October 2022
Team ID	PNT2022TMD49597
Project Name	Project-Plasma Donor Application
Maximum Marks	8 Marks

Product Backlog, SprintSchedule,and Estimation(4Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Donor Registration	USN-1	As a donor, I can register for the application by entering my email, password, and confirming my password and plasma details.	1	High	Suswin, Saravanan
Sprint-1	Donor login	USN-3	As a Donor, I can log into the application by entering email and password	1	High	Saravanan
Sprint-2	Recipient Registration	USN-4	As a Recipient, I can register for the application by entering required details	2	High	Suswin, Saravanan
Sprint-2	Recipient Login	USN-5	As a Recipient, I can log into the application by entering email & password	1	High	Suswin
Sprint-3	Request Notification	USN-6	As a Recipient, I can send Request to the Donors by notifying them at the right time	3	High	Jebin Rose, Raja Chera Kesari
Sprint-3	Donor confirmation	USN-2	As a Donor, I will receive confirmation email once I have registered for the application	3	High	Jebin Rose, Raja Chera Kesari
Sprint-4	Response from Donor	USN-7	As a Recipient, I can Receive response from Donors	3	High	Jebin Rose, Raja Chera Kesari
Sprint-4	Dashboard	USN-8	As a Donor, I can see the information about application	2	Medium	Jebin Rose, Raja Chera Kesari

6.2 Sprint Delivery Schedule:

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)
Sprint-1	12	6 Days	24 Oct 2022	29 Oct 2022	12	29 Oct 2022
Sprint-2	12	6 Days	31 Oct 2022	05 Nov 2022	12	05 Nov 2022
Sprint-3	12	6 Days	07 Nov 2022	12 Nov 2022	12	12 Nov 2022
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022	12	19 Nov 2022

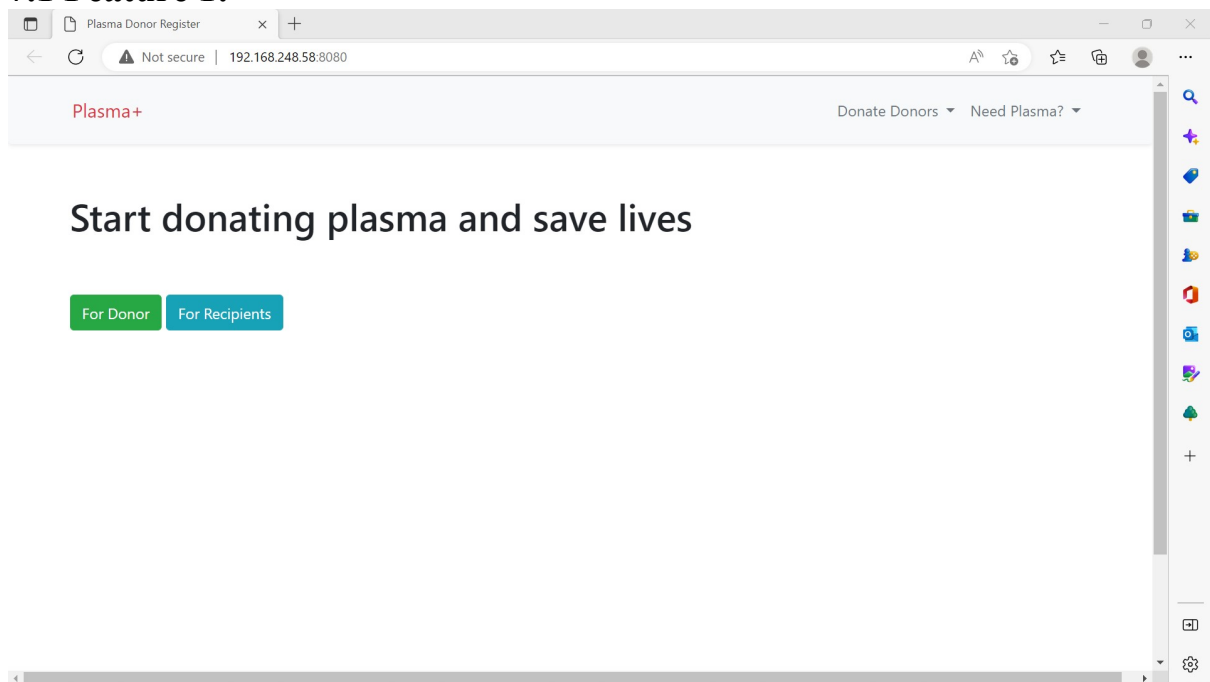
Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \text{sprint duration} / \text{velocity} = 12/6 = 2$$

7.CODING &SOLUTIONING (Explain the features added in the project along with code):

7.1 Feature 1:



Source code for feature1:

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
"
```

```

        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->

<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>

```

```
<li><a class="dropdown-item text-secondary" href="/register-recipient">Register</a></li>
```

```
</ul>
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
<!-- navbar ends -->
```

```
<!-- Home page -->
```

```
<div class="hero">
```

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

```
<p class="h1 p-1"> Start donating plasma and save lives</p>
```

```
<div class="px-1 py-5">
```

```
<button onclick="window.location.href='register-donor'" class="btn btn-success">For Donor</button>
```

```
<button onclick="window.location.href='register-recipient'" class="btn btn-info">For Recipients</button>
```

```
</div>
```

```
<script
```

```
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
```

```
integrity="sha384-
```

```
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
```

```
crossorigin="anonymous"></script>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

7.2 Feature 2:

The screenshot shows a web browser window with the title "Plasma Donor Register". The address bar shows "192.168.248.58:8080/register-donor". The page has a header with the "Plasma+" logo and navigation links "Donate Donors" and "Need Plasma?". The main content area is titled "Register Form for Donors" and contains the following fields:

- Full Name**: A text input field with the placeholder "Enter Your Fullname".
- Password**: A text input field with the placeholder "Enter Your Password".
- E-Mail**: A text input field with the placeholder "Enter Your Email ID".
- Date Of Birth**: A date picker field with the placeholder "dd-mm-yyyy".
- Choose Your Gender:**: A dropdown menu with "Male" selected.
- Blood Group**: A text input field.

This screenshot shows the same registration form as the previous one, but with additional fields and a registration button:

- Choose Your Gender:**: A dropdown menu with "Male" selected.
- Blood Group**: A text input field with the placeholder "Enter Your Blood Group. for ex: B+ve".
- State**: A text input field with the placeholder "Enter Your State. for ex: Kerala".
- Pin**: A text input field with the placeholder "Enter Your Pincode. for Ex: 123456".
- Phone Number**: A text input field with the placeholder "Enter Your Phone Number. For ex: +91123456789".
- Health Issues (if any)**: A text input field with the placeholder "Ex: I have Anaemia or Cold or I suffered from Corona".
- Register**: A blue button.
- Footer**: A link "already have an account ? please [login!](#)".

Source code for feature 2:

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
```


Donate Donors

```
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
data-bs-toggle="dropdown" aria-
expanded="false">
```

Need Plasma?

```
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>

</ul>
</li>
```

```
</ul>
</div>
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- Login form -->
```

```
<div class="container mt-5">
<h2 class="h2"> Register Form for Donors</h2>
```

```
<form action="/register-donor" method="post">
<div class="col-6 py-2">
<div class="msg">{{ msg }}</div>
<label class="form-label">Full Name</label>
<input type="text" class="form-control input_text" name="Fullname"
placeholder="Enter Your Fullname" id="Fullname"
required>
<label class="form-label" >Password</label>
<input type="password" class="form-control input_text" name="password"
placeholder="Enter Your Password"
id="password" required>
<label class="form-label" >E-Mail</label>
<input type="email" class="form-control input_text" name="email"
placeholder="Enter Your Email ID" id="email"
required>
<label class="form-label" >Date Of Birth</label>
<input type="date" class="form-control input_text" name="DOB"
placeholder="Enter your Date of birth: DD-MM-YYYY"
```

```

        id="DOB" required>

<label class="form-label" for="Gender" >Choose Your Gender:</label>
<select id="Gender" name="Gender" data-name="Gender" required="" class="col-3
form-control input_text">
<option value="Select one" disabled>Select Your Gender</option>
<option value="Male">Male</option>
<option value="Female">Female</option>
</select>
<label class="form-label" >Blood Group</label>
<input type="text" class="form-control input_text" name="BloodGroup"
        placeholder="Enter Your Blood Group. for ex: B+ve"
id="Blood-Group" required>

<label class="form-label" >State</label>
<input type="text" class="form-control input_text" name="State"
placeholder="Enter Your State. for ex: Kerala"
        id="State" required>
<label class="form-label" >Pin</label>
<input type="number" class="form-control input_text" name="Pin"
placeholder="Enter Your Pincode. for Ex: 123456"
        id="Pin" required>
<label class="form-label" >Phone Number</label>
<input type="tel" class="form-control input_text" name="phone"
        placeholder="Enter Your Phone Number. For ex:
+91123456789" id="phone" required>
<label class="form-label" >Health Issues (if any)</label>
<input type="text" class="form-control input_text" name="Issues"
        placeholder="Ex: I have Anaemia or Cold or I suffered from
Corona" id="Issues">
<button type="submit" id="button" class="btn btn-primary"> Register </button>
<div class="note mt-3">
<!--Register form -->
<p> already have an account ? please <a href="login">login! </a></p>

</div>
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
        integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

7.3 Feature 3

Plasma Donor Register

Not secure | 192.168.248.58:8080/register-recipient

Plasma+ Donate Donors Need Plasma?

Recipient Register Form

Organisation Name
Organisation Name

Email ID
Organisation mail id

Password
Password

Address
Your organisation address

Phone
Phone Number

Register

Source for feature 3

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
"
integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->
```

```

<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
            aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="/" role="button"
            data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="/" role="button"
            data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- Home page -->

<!-- navbar ends -->
<!-- Login form -->
<div class="container mt-5">
<h2 class="form-text-h2"> Recipient Register Form </h2>

```

```

<form action="/register-recipient" method="post">

<div class="col-6 py-2">
<div class="msg">{{ msg }}</div>
<label class="form-label">Organisation Name</label>
<input type="text" class="form-control input_text" name="Name" data-
name="Name"
                placeholder="Organisation Name" id="Name" required>
<label class="form-label">Email ID</label>
<input type="email" class="form-control input_text" name="email" data-
name="email"
                placeholder="Organisation mail id" id="email" required>
<label class="form-label">Password</label>
<input type="password" class="form-control input_text" name="password" data-
name="password"
                placeholder="Password" id="password" required>
<label class="form-label">Address</label>
<input type="text" class="form-control input_text" name="Address" data-
name="Address"
                placeholder="Your organisation address" id="Address"
required>
<label class="form-label">Phone</label>
<input type="tel" class="form-control input_text" name="phone" data-
name="phone"
                placeholder="Phone Number" id="phone" required="">

<button type="submit" id="button" class="btn btn-primary"> Register </button>

<p> already have an account ? please <a href="login2">login! </a></p>

</div>
</form>

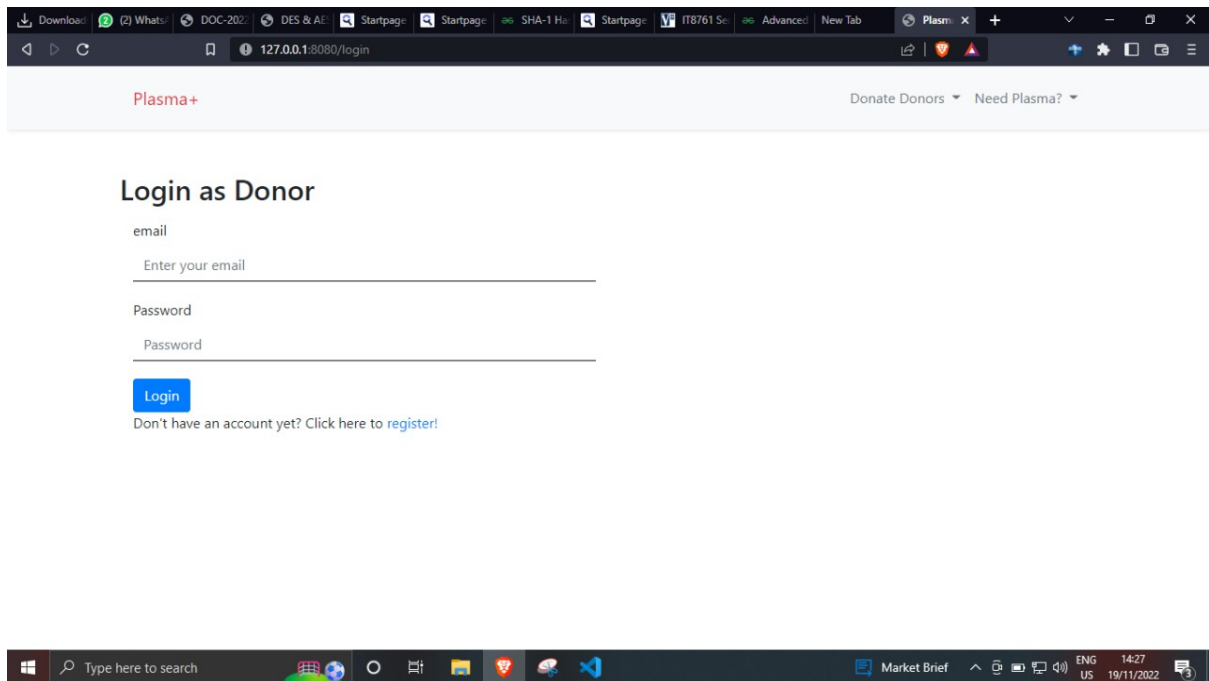
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
    integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

7.4 Feature 4



Source for feature 4

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Login</title>
<!-- favicon -->
<!--<link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
icon">-->
<!--<link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
```

```

</head>

<body>
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>
</div>
</nav>
<!-- navbar ends -->

<div class="container mt-5">
<h2 class="form-text-h2"> Login as Donor </h2>

```

```

<form action="/login" method="post">
<div class="col-6 py-2">

<div class="msg">{{ msg }}</div>

<div class="form-group mb-3">
<label class="form-label" for="Fullname">email</label>
<input type="email" class="form-control input_text" placeholder="Enter your
email" name="email" required>
</div>
<div class="form-group mb-3">
<label class="label" for="password">Password</label>
<input type="password" class="form-control input_text" placeholder="Password"
name="password" required>
</div>

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

<p> Don't have an account yet? Click here to <a href="/register-
donor">register! </a></p>

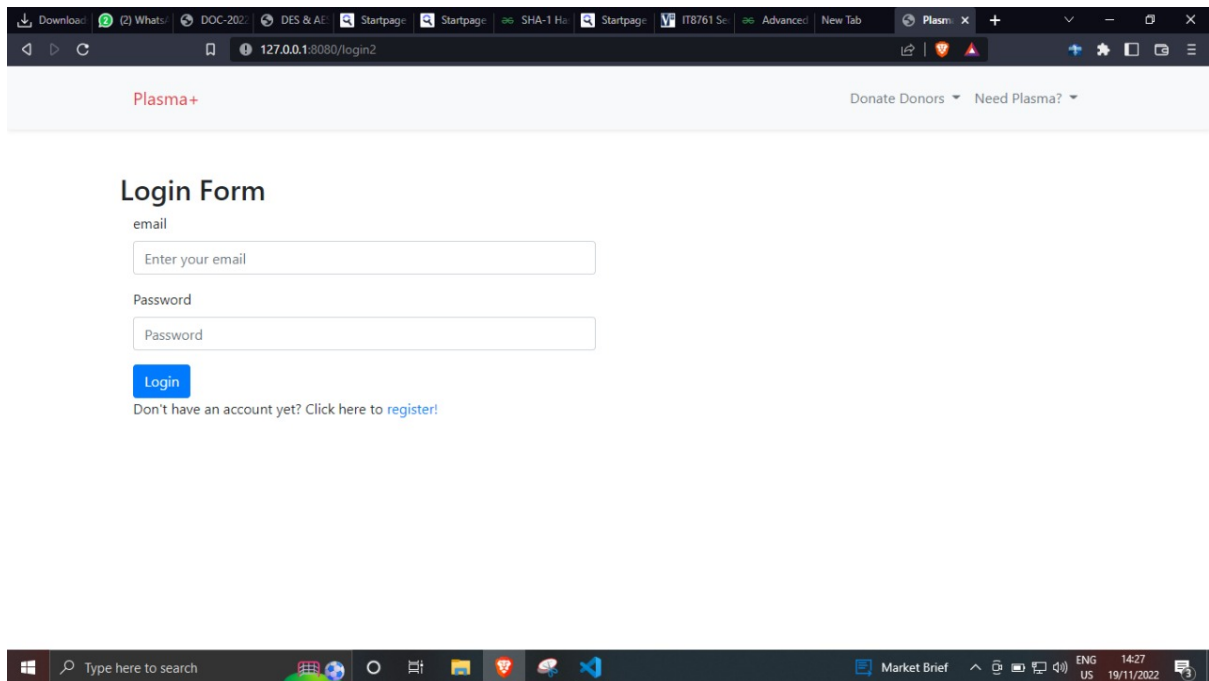
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

7.5 Feature 5



Source for feature 5

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Login</title>
<!-- favicon -->
<!--<link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
icon">-->
<!--<link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
```

```

</head>

<body>
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>
</div>
</nav>
<!-- navbar ends -->

<div class="container mt-5">
<h2 class="form-text-h2"> Login Form </h2>

```

```

<form action="/login2" method="post">

<div class="msg">{{ msg }}</div>
<div class="col-6">
<div class="form-group mb-3">
<label class="form-label" for="Fullname">email</label>
<input type="email" class="form-control input-text" placeholder="Enter your
email" name="email" required>
</div>
<div class="form-group mb-3">
<label class="form-label" for="password">Password</label>
<input type="password" class="form-control input-text" placeholder="Password"
name="password" required>
</div>

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

<p> Don't have an account yet? Click here to <a href="/register-
recipient">register! </a></p>

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

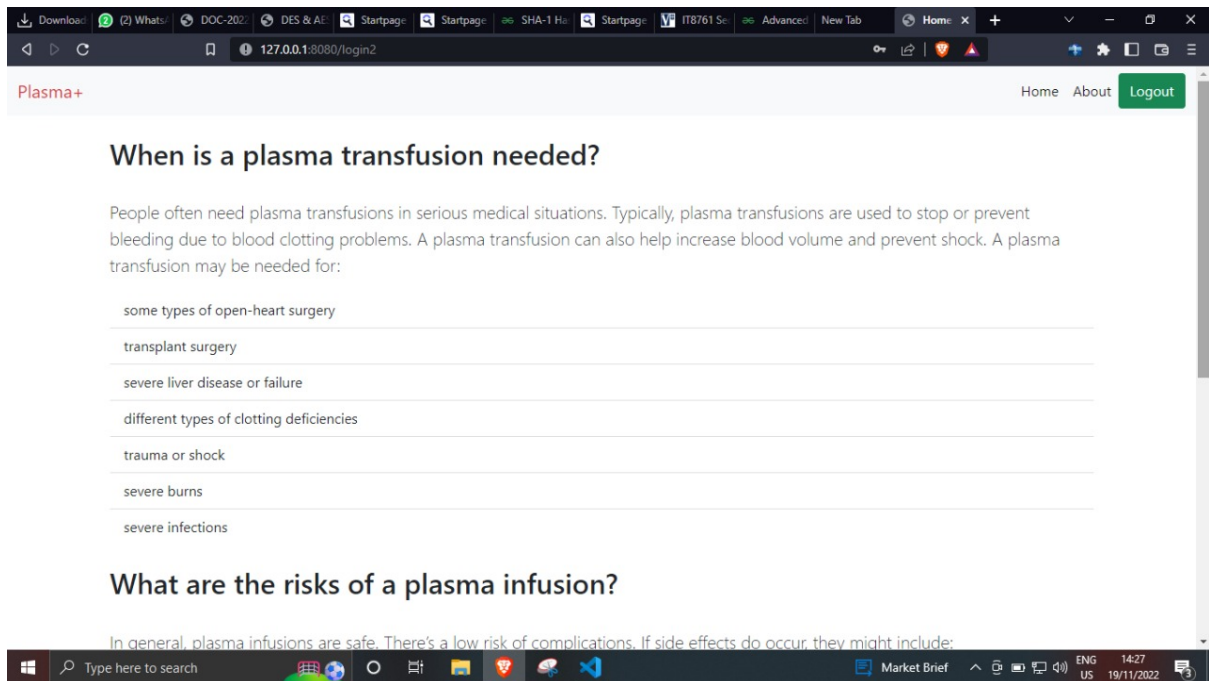
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

7.6 Feature 6



Source for feature 6

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<title>Home Recipients</title>
</head>

<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="#">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNavDropdown"
aria-controls="navbarNavDropdown" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
<ul class="navbar-nav">
```

```

<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">About</a>
</li>
<button onclick="window.location.href='login2'" class="btn btn-
success">Logout</button>
<!--<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Pricing</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
    Dropdown link
</a>
<ul class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
<li><a class="dropdown-item" href="#">Action</a></li>
<li><a class="dropdown-item" href="#">Another action</a></li>
<li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</li> -->
</ul>
</div>
</div>
</nav>
<div class="container">

```

<h2 class="py-4">When is a plasma transfusion needed?</h2>

<p class="lead">

People often need plasma transfusions in serious medical situations.

Typically, plasma transfusions are used to stop or prevent bleeding due to blood clotting problems. A plasma transfusion can also help increase blood volume and prevent shock.

A plasma transfusion may be needed for:

</p>

```

<ul class="list-group list-group-flush">
<li class="list-group-item">some types of open-heart surgery</li>
<li class="list-group-item">transplant surgery</li>
<li class="list-group-item">severe liver disease or failure</li>
<li class="list-group-item">different types of clotting deficiencies</li>
<li class="list-group-item">trauma or shock</li>
<li class="list-group-item">severe burns</li>
<li class="list-group-item">severe infections</li>
</ul>

```

<h2 class="py-4">What are the risks of a plasma infusion?</h2>

<p class="lead">

In general, plasma infusions are safe. There's a low risk of complications.

If side effects do occur, they might include:

</p>

<ul class="list-group list-group-flush">

<li class="list-group-item">soreness, bruising, or pain at the needle insertion site

<li class="list-group-item">infections

<li class="list-group-item">allergic reactions

<li class="list-group-item">reactions to the plasma

<li class="list-group-item">transfusion-associated circulatory overload

<li class="list-group-item">transfusion-related acute lung injury

<h2 class="py-4">Frequently asked questions</h2>

<div class="col-6">

<div class="accordion" id="accordionExample">

<div class="accordion-item">

<h2 class="accordion-header " id="headingOne">

<button class="accordion-button" type="button" data-bs-toggle="collapse" data-bs-target="#collapseOne" aria-expanded="true" aria-controls="collapseOne">

Are blood types important for plasma transfusion?

</button>

</h2>

<div id="collapseOne" class="accordion-collapse collapse show" aria-labelledby="headingOne"

data-bs-parent="#accordionExample">

<div class="accordion-body">

Yes, blood type matters for plasma transfusions. Type AB blood is best because that plasma contains no antibodies. This means it can be given it to a person with any blood type. </div>

</div>

</div>

<div class="accordion-item">

<h2 class="accordion-header" id="headingTwo">

<button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"

data-bs-target="#collapseTwo" aria-expanded="false" aria-controls="collapseTwo">

Can disease be transmitted in plasma transfusion?

</button>

</h2>

<div id="collapseTwo" class="accordion-collapse collapse" aria-labelledby="headingTwo"

data-bs-parent="#accordionExample">

<div class="accordion-body">

<p>Yes. However, the Food and Drug Administration requires that all plasma be tested after it's collected, just like whole blood. The plasma is mainly checked for syphilis, HIV, and hepatitis A, B, and C.</p>

</div>

```

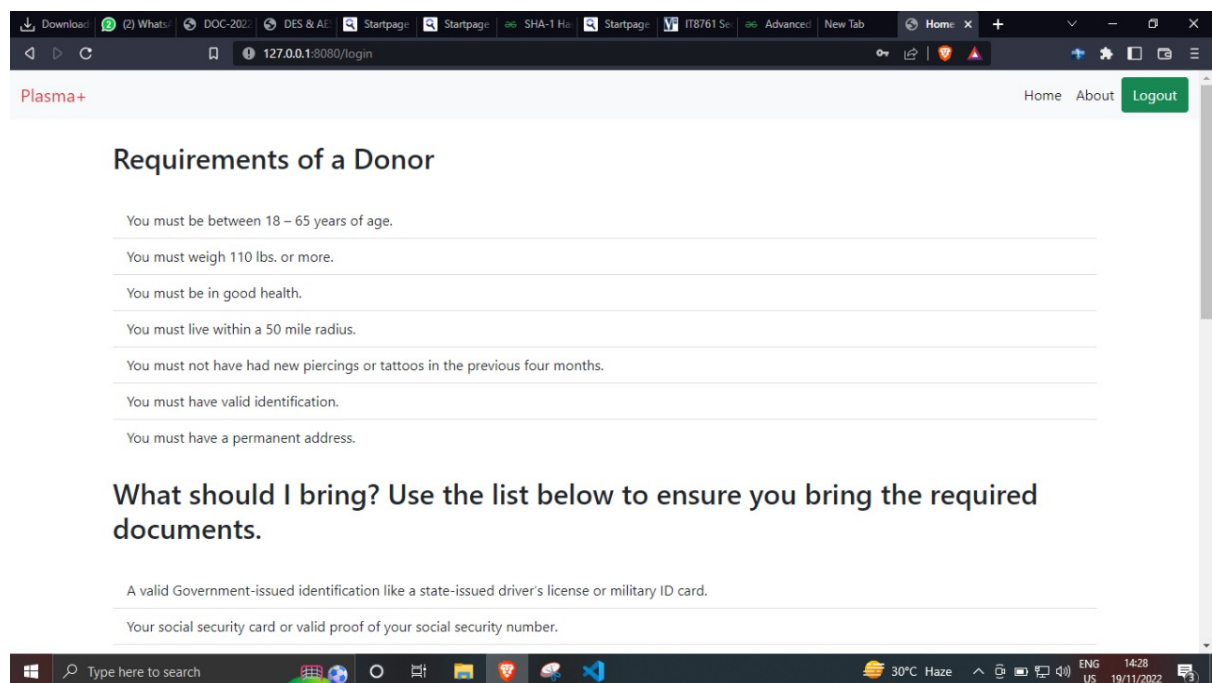
</div>
</div>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min
.js"
        integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
</body>

</html>

```

7.7 Feature 7



Source for feature 7

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"

```

```

        integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<title>Home Donor</title>
</head>

<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="#">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNavDropdown"
        aria-controls="navbarNavDropdown" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">About</a>
</li>
<button onclick="window.location.href='login'" class="btn btn-
success">Logout</button>
<!--<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Pricing</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
        Dropdown link
</a>
<ul class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
<li><a class="dropdown-item" href="#">Action</a></li>
<li><a class="dropdown-item" href="#">Another action</a></li>
<li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</li> -->
</ul>
</div>
</div>
</nav>
<div class="container">

<h2 class="py-4">Requirements of a Donor</h2>
<ul class="list-group list-group-flush">
<li class="list-group-item">You must be between 18 - 65 years of age.</li>
<li class="list-group-item">You must weigh 110 lbs. or more. </li>
<li class="list-group-item">You must be in good health.</li>

```



```
<li class="list-group-item">You must live within a 50 mile radius.</li>
<li class="list-group-item">You must not have had new piercings or tattoos in
the previous four months.</li>
<li class="list-group-item">You must have valid identification.</li>
<li class="list-group-item">You must have a permanent address.</li>
</ul>
```

```
<h2 class="py-4">What should I bring? Use the list below to ensure you bring
the required documents.</h2>
```

```
<ul class="list-group list-group-flush">
<li class="list-group-item">A valid Government-issued identification like a
state-issued driver's license or military ID card. </li>
<li class="list-group-item">Your social security card or valid proof of your
social security number.</li>
<li class="list-group-item">Proof of a local residence. You can use a piece of
mail such as a utility bill postmarked in the last 30 days, or a valid lease,
etc. </li>
</ul>
```

```
<h2 class="py-4">How do I prepare for my visit?</h2>
```

```
<ul class="list-group list-group-flush">
<li class="list-group-item">Drink plenty of water, juice, or other non-
caffeinated beverages 2-3 hours before you arrive. We recommend 4-6 glasses.
Avoid caffeine in the same time period.</li>
<li class="list-group-item">Don't drink any alcohol for 24 hours before your
plasma donation. </li>
<li class="list-group-item">Do eat a meal before you arrive. </li>
<li class="list-group-item">Get plenty of sleep the night before your plasma
donation. </li>
</ul>
```

```
<h2 class="py-4">Who Do Plasma Donations Help?</h2>
```

```
<p class="lead">
```

```
Individuals who experience a severe trauma, burn or shock often
lose a significant amount of
blood volume, and are
depleted of many necessary electrolytes. Electrolytes are minerals
that help to balance the
amount of water, nutrients
and pH level inside the body. In this situation, a plasma
transfusion can provide the lifesaving
blood volume needed to
restore their blood pressure and volume status, as well as restore
electrolyte levels.
```

```
In addition, people with liver disease or clotting factor
deficiencies may not have the proper
substances in their blood
to allow their blood to clot normally. Whenever an individual has
a cut or injury, these
clotting factors ensure that
they do not lose too much blood. Plasma donations ensure that
these individuals can receive a
plasma transfusion to
supplement their body's clotting ability and stop excessive
bleeding from occurring. Finally,
children and adults with
```

cancer sometimes experience complications in which their body has used up all of their natural clotting factors. In cases of this disorder, called disseminated intravascular coagulation (DIC), transfusions of fresh frozen plasma may be critical.

</p>

<h2>What Is The Plasma Donation Process?</h2>

<p class="lead">

During a plasma donation, blood is removed from the donor's arm and run through an automated process that removes the plasma portion from the blood. The remaining red blood cells and platelets are then returned to the donor's arm with a small amount of saline to maintain the overall volume. This all occurs while the donor is in the donation chair and allows a donor to give more plasma than they would during a regular blood donation - enough plasma for up to three patients from a single plasma donation. The process itself is safe, and ultimately is very similar to a general blood donation visit.

</p>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>

</body>

</html>

8.TESTING

8.1 Test Cases:

				Date	17-Nov-22								
				Team ID	PNT2022PMID49597								
				Project Name	Project - PLASMA DONOR APPLICATION								
				Maximum Marks	4 marks								
Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
IndexPage_TC_001	Functional	Home Page	Both the donor and recipient are verified with their choosing process.		1.Enter URL and click go 2.Click on Donor/recipient to login or register. 3.Verify Login/Register is displayed or not	http://169.51.207.216:31233/	Login/Register page of both Donor and Recipient should display	Working as expected	Pass				
LoginPage_TC_002	UI	Login Page of Donor	Verify the UI elements in Login page		1.Enter URL and click go 2.Verify login with below UI elements: a.email text box b.password text box c.Login button d.Don't have already an account? Or Signup	http://169.51.207.216:31233/	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.Don't have already an account? Or Signup	Working as expected	Pass				
LoginPage_TC_003	Functional	Login page of Donor	Credentials of the donor is verified, If not can be registered		1.Enter URL and click go 2.Enter Valid email in Email text box 3.Enter valid password in password text box 4.Click on login button	email: suswinpalaniswamy@gmail.com password:2002	User should get verification upon successful login of donor.	Working as expected	Pass				
LoginPage_TC_004	UI	Login page Of recipient	Verify user is able to log into application with Valid credentials		1.Enter URL and click go 2.Enter Valid email in Email text box 3.Enter valid password in password text box	email: suswinpalaniswamy@gmail.com password:2002	Application should show 'Incorrect email or password ' validation message.	Working as expected	Pass				
LoginPage_TC_005	Functional	Login page of Recipient	Credentials of the recipient is verified, If not can be registered		1.Enter URL and click go 2.Enter Valid email in Email text box 3.Enter valid password in password text box 4.Click on login button	email: psuswin00@gmail.com password:1002	User should get verification upon successful login of recipient.	Working as expected	Pass				
RegisterPage_TC_006	UI	Register page of Donor	Verify user is able to register into application with Valid credentials		1.Enter URL and click go 2.Verify register with below UI elements: a.fullname text box b.Blood Group text box c.email text box d.password text box e.phone number text box f.gender text box g.age text box h.address text box i.district text box j.State text box k.do you have any illness text box.	URL: http://169.51.207.216:31233/login2	Application should show below UI elements: 1.Enter URL and click go a.fullname text box b.Blood Group text box c.email text box d.password text box e.phone number text box f.gender text box g.age text box h.address text box i.district text box j.State text box k.do you have any illness text box. l. Register Now Button with white color	Working as expected	Pass				
RegisterPage_TC_007	UI	Register page of Recipient	Verify user is able to register into application with Valid credentials		1.Enter URL and click go 2.Verify register with below UI elements: a.Admin Organisation Name text box b.Admin Email text box c.Patient's name text box d.Patient's Blood group text box e.Patient's Age text box f.Type of request text box g.phonenumber text box h.address text box i.Submit button	URL:http://169.51.207.216:31233/register-donor	Application should show below UI elements: 1.Enter URL and click go a.Admin Organisation Name text box b.Admin Email text box c.Patient's name text box d.Patient's Blood group text box e.Patient's Age text box f.Type of request text box g.phonenumber text box h.address text box i.Submit button	Working as expected	Pass				

9.RESULTS

9.1 Performance Metrics

We show screenshots for the BLOOD DONOR web application for different types of users including recipient, donor, and administrator. Various features of the application are described and their needs of use are analyzed. If a patient needs a plasma, blood donors in vicinity can be contacted through sending email which is provided in the web 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.

10.ADVANTAGES AND DISADVANTAGES

Advantages:

- The recipient get the plasma at the right time by registering in our web application.
- The donor gets increased.
- By sending request to the available donors,it is easy to contact the nearest donor.
- Our web application shows the donors list when the recipient search for the specific blood group

Disadvantages:

- It requires an active internet connection.
- It cannot auto verify user genuineness

11. CONCLUSION BLOOD DONOR

web application provides a reliable platform to connect local blood donors with patients. This web application will attract more users as it is user friendly and greatly reduces scalability issues in the case blood donation. Only the person who have a social responsibility will have a courage to donate their blood. Thus, we have successfully designed and developed the web application to ease the process of becoming a donor and recipient . BLOOD DONOR get to notified whenever a patient needs blood donation. It is a useful to everyone who are in need of plasma.

12.FUTURE SCOPE BLOODDONOR

Web 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 sign up 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. We can collaborate with government and it can further developed into moblie application to use app to help the people who are in need of plasma.

13.APPENDIX

Source code:

about.html

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpucOmLASjC"
crossorigin="anonymous">
<title>Home Recipients</title>
</head>

<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="#">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNavDropdown"
aria-controls="navbarNavDropdown" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="navbarNavDropdown">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">About</a>
</li>
<!--<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Pricing</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
Dropdown link
</a>
<ul class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
<li><a class="dropdown-item" href="#">Action</a></li>
<li><a class="dropdown-item" href="#">Another action</a></li>
```

```

<li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</li> -->
</ul>
</div>
</div>
</nav>

<div class="container">

<h2 class="py-4">About the company</h2>
<p class="lead">
<strong>Plasma+</strong>was incorporated in October of 2020 with a singular
focus of collecting medical-grade source blood plasma for our biotherapeutic
pharmaceutical client base. Source plasma is used in the production of plasma
protein-based injectable patient treatment therapies.
</p>

<h2 class="py-4">Our Mission</h2>
<p class="lead">
<strong>Our mission is</strong> to provide a customer-focused donor experience
while collecting source blood plasma to be utilized in the manufacturing of
lifesaving therapies, improving the world we live in one donation at a time.
</p>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
</body>

```

display.html

```

<div>
<div>Name</div>

        {% for val in data %}
<div>{{val}}</div>
        {% endfor %}

                                {% if state == "SENT" %}
                                <div>Email Sent Successfully </div>
                                {% else %}
                                <form action="/send_email" method="post">
                                <input type="text" value="{{val}}" />
                                <button type="submit">Send</button>
                                </form>
                                {% endif %}

</tbody>
</table>
</div>

```

home_donor.html

```
<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<title>Home Donor</title>
</head>

<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="#">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNavDropdown"
aria-controls="navbarNavDropdown" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">About</a>
</li>
<button onclick="window.location.href='login'" class="btn btn-
success">Logout</button>
<!--<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Pricing</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
Dropdown link
</a>
<ul class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
<li><a class="dropdown-item" href="#">Action</a></li>
<li><a class="dropdown-item" href="#">Another action</a></li>
<li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
```



```
</li> -->
</ul>
</div>
</div>
</nav>
<div class="container">
```

```
<h2 class="py-4">Requirements of a Donor</h2>
<ul class="list-group list-group-flush">
<li class="list-group-item">You must be between 18 - 65 years of age.</li>
<li class="list-group-item">You must weigh 110 lbs. or more. </li>
<li class="list-group-item">You must be in good health.</li>
<li class="list-group-item">You must live within a 50 mile radius.</li>
<li class="list-group-item">You must not have had new piercings or tattoos in
the previous four months.</li>
<li class="list-group-item">You must have valid identification.</li>
<li class="list-group-item">You must have a permanent address.</li>
</ul>
```

```
<h2 class="py-4">What should I bring? Use the list below to ensure you bring
the required documents.</h2>
<ul class="list-group list-group-flush">
<li class="list-group-item">A valid Government-issued identification like a
state-issued driver's license or military ID card. </li>
<li class="list-group-item">Your social security card or valid proof of your
social security number.</li>
<li class="list-group-item">Proof of a local residence. You can use a piece of
mail such as a utility bill postmarked in the last 30 days, or a valid lease,
etc. </li>
</ul>
```

```
<h2 class="py-4">How do I prepare for my visit?</h2>
<ul class="list-group list-group-flush">
<li class="list-group-item">Drink plenty of water, juice, or other non-
caffeinated beverages 2-3 hours before you arrive. We recommend 4-6 glasses.
Avoid caffeine in the same time period.</li>
<li class="list-group-item">Don't drink any alcohol for 24 hours before your
plasma donation. </li>
<li class="list-group-item">Do eat a meal before you arrive. </li>
<li class="list-group-item">Get plenty of sleep the night before your plasma
donation. </li>
</ul>
```

```
<h2 class="py-4">Who Do Plasma Donations Help?</h2>
<p class="lead">
```

```
    Individuals who experience a severe trauma, burn or shock often
lose a significant amount of
    blood volume, and are
    depleted of many necessary electrolytes. Electrolytes are minerals
that help to balance the
    amount of water, nutrients
    and pH level inside the body. In this situation, a plasma
transfusion can provide the lifesaving
    blood volume needed to
    restore their blood pressure and volume status, as well as restore
electrolyte levels.
```

In addition, people with liver disease or clotting factor deficiencies may not have the proper substances in their blood to allow their blood to clot normally. Whenever an individual has a cut or injury, these clotting factors ensure that they do not lose too much blood. Plasma donations ensure that these individuals can receive a plasma transfusion to supplement their body's clotting ability and stop excessive bleeding from occurring. Finally, children and adults with cancer sometimes experience complications in which their body has used up all of their natural clotting factors. In cases of this disorder, called disseminated intravascular coagulation (DIC), transfusions of fresh frozen plasma may be critical.

</p>
<h2>What Is The Plasma Donation Process?</h2>
<p class="lead">

During a plasma donation, blood is removed from the donor's arm and run through an automated process that removes the plasma portion from the blood. The remaining red blood cells and platelets are then returned to the donor's arm with a small amount of saline to maintain the overall volume. This all occurs while the donor is in the donation chair and allows a donor to give more plasma than they would during a regular blood donation - enough plasma for up to three patients from a single plasma donation. The process itself is safe, and ultimately is very similar to a general blood donation visit.

</p>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-Mrcw6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
</body>

</html>

home_receipient.html

<!DOCTYPE html>
<html lang="en">

```

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWFspD3yD65VohhpUuCOMLASjC"
crossorigin="anonymous">
<title>Home Recipients</title>
</head>

<body>
<nav class="navbar navbar-expand-lg navbar-light bg-light">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="#">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNavDropdown"
aria-controls="navbarNavDropdown" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end"
id="navbarNavDropdown">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link active" aria-current="page" href="#">About</a>
</li>
<button onclick="window.location.href='login2'" class="btn btn-
success">Logout</button>
<!--<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Pricing</a>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle" href="#" id="navbarDropdownMenuLink"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
Dropdown link
</a>
<ul class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
<li><a class="dropdown-item" href="#">Action</a></li>
<li><a class="dropdown-item" href="#">Another action</a></li>
<li><a class="dropdown-item" href="#">Something else here</a></li>
</ul>
</li> -->
</ul>
</div>
</div>
</nav>
<div class="container">

```

<h2 class="py-4">When is a plasma transfusion needed?</h2>

<p class="lead">

People often need plasma transfusions in serious medical situations.

Typically, plasma transfusions are used to stop or prevent bleeding due to blood clotting problems. A plasma transfusion can also help increase blood volume and prevent shock.

A plasma transfusion may be needed for:

</p>

<ul class="list-group list-group-flush">

<li class="list-group-item">some types of open-heart surgery

<li class="list-group-item">transplant surgery

<li class="list-group-item">severe liver disease or failure

<li class="list-group-item">different types of clotting deficiencies

<li class="list-group-item">trauma or shock

<li class="list-group-item">severe burns

<li class="list-group-item">severe infections

<h2 class="py-4">What are the risks of a plasma infusion?</h2>

<p class="lead">

In general, plasma infusions are safe. There's a low risk of complications.

If side effects do occur, they might include:

</p>

<ul class="list-group list-group-flush">

<li class="list-group-item">soreness, bruising, or pain at the needle insertion site

<li class="list-group-item">infections

<li class="list-group-item">allergic reactions

<li class="list-group-item">reactions to the plasma

<li class="list-group-item">transfusion-associated circulatory overload

<li class="list-group-item">transfusion-related acute lung injury

<h2 class="py-4">Frequently asked questions</h2>

<div class="col-6">

<div class="accordion" id="accordionExample">

<div class="accordion-item">

<h2 class="accordion-header " id="headingOne">

<button class="accordion-button" type="button" data-bs-toggle="collapse" data-bs-target="#collapseOne" aria-expanded="true" aria-controls="collapseOne">

Are blood types important for plasma transfusion?

</button>

</h2>

```

<div id="collapseOne" class="accordion-collapse collapse show" aria-
labelledby="headingOne"
    data-bs-parent="#accordionExample">
<div class="accordion-body">
    Yes, blood type matters for plasma transfusions. Type
AB blood is best because that plasma
    contains no antibodies. This means it can be given it
to a person with any blood type. </div>
</div>
<div class="accordion-item">
<h2 class="accordion-header" id="headingTwo">
<button class="accordion-button collapsed" type="button" data-bs-
toggle="collapse"
    data-bs-target="#collapseTwo" aria-expanded="false"
aria-controls="collapseTwo">
    Can disease be transmitted in plasma transfusion?
</button>
</h2>
<div id="collapseTwo" class="accordion-collapse collapse" aria-
labelledby="headingTwo"
    data-bs-parent="#accordionExample">
<div class="accordion-body">
<p>Yes. However, the Food and Drug Administration requires that all plasma be
tested after it's collected, just like whole blood. The plasma is mainly
checked for syphilis, HIV, and hepatitis A, B, and C.</p>
</div>
</div>
</div>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min
.js"
    integrity="sha384-
MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"
crossorigin="anonymous"></script>
</body>

</html>

```

home.html

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->

```

```

<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KgB8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->
<!--navbar ends -->
<!-- Home page -->

<p> Welcome to our Home Page!</p>
<form method="POST">
<button onclick="window.location.href='send_email'" class="btnbtn-
success">Mail</button>
</form>

</body>

</html>

```

login1.html

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Login</title>
<!-- favicon -->
<!--<link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
icon">-->
<!--<link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"

```

```
        integrity="sha384-
JcKb8q3iqJ61gNV9KgB8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>
```

```
<body>
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">
```

```
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
```

Donate Donors

```
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>
```

```
</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
```

Need Plasma?

```
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>
```

```

</ul>
</li>

</ul>
</div>
</div>
</div>
</nav>
<!--navbar ends -->

<div class="container mt-5">
<h2 class="form-text-h2"> Login as Donor </h2>
<form action="/login" method="post">
<div class="col-6 py-2">

<div class="msg">{{ msg }}</div>

<div class="form-group mb-3">
<label class="form-label" for="Fullname">email</label>
<input type="email" class="form-control input_text" placeholder="Enter your
email" name="email" required>
</div>
<div class="form-group mb-3">
<label class="label" for="password">Password</label>
<input type="password" class="form-control input_text" placeholder="Password"
name="password" required>
</div>

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

<p> Don't have an account yet? Click here to <a href="/register-
donor">register! </a></p>

</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

login2.html

```

<!DOCTYPE html>
<html lang="en">

```



```

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Login</title>
<!-- favicon -->
<!--<link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-
icon">-->
<!--<link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
<link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>

```

```

<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
    data-bs-toggle="dropdown" aria-
    expanded="false">
        Need Plasma?
    </a>
    <ul class="dropdown-menu">
        <li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
        <li><a class="dropdown-item text-secondary" href="/register-
        recipient">Register</a></li>

    </ul>
</li>

</ul>
</div>
</div>
</div>
</div>
</nav>
<!--navbar ends -->

<div class="container mt-5">
<h2 class="form-text-h2"> Login Form </h2>
<form action="/login2" method="post">

<div class="msg">{{ msg }}</div>
<div class="col-6">
<div class="form-group mb-3">
<label class="form-label" for="Fullname">email</label>
<input type="email" class="form-control input-text" placeholder="Enter your
email" name="email" required>
</div>
<div class="form-group mb-3">
<label class="form-label" for="password">Password</label>
<input type="password" class="form-control input-text" placeholder="Password"
name="password" required>
</div>

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

<p> Don't have an account yet? Click here to <a href="/register-
recipient">register! </a></p>

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

```

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
    integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

reg1.html

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"

```

```

        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>
</div>
</nav>
<!-- navbar ends -->
<!-- Login form -->

<div class="container mt-5">
<h2 class="h2"> Register Form for Donors</h2>

<form action="/register-donor" method="post">
<div class="col-6 py-2">
<div class="msg">{{ msg }}</div>
<label class="form-label">Full Name</label>
<input type="text" class="form-control input_text" name="Fullname"
placeholder="Enter Your Fullname" id="Fullname"

```

```

        required>
<label class="form-label" >Password</label>
<input type="password" class="form-control input_text" name="password"
placeholder="Enter Your Password"
        id="password" required>
<label class="form-label" >E-Mail</label>
<input type="email" class="form-control input_text" name="email"
placeholder="Enter Your Email ID" id="email"
        required>
<label class="form-label" >Date Of Birth</label>
<input type="date" class="form-control input_text" name="DOB"
placeholder="Enter your Date of birth: DD-MM-YYYY"
        id="DOB" required>

<label class="form-label" for="Gender" >Choose Your Gender:</label>
<select id="Gender" name="Gender" data-name="Gender" required="" class="col-3
form-control input_text">
<option value="Select one" disabled>Select Your Gender</option>
<option value="Male">Male</option>
<option value="Female">Female</option>
</select>
<label class="form-label" >Blood Group</label>
<input type="text" class="form-control input_text" name="BloodGroup"
        placeholder="Enter Your Blood Group. for ex: B+ve"
id="Blood-Group" required>

<label class="form-label" >State</label>
<input type="text" class="form-control input_text" name="State"
placeholder="Enter Your State. for ex: Kerala"
        id="State" required>
<label class="form-label" >Pin</label>
<input type="number" class="form-control input_text" name="Pin"
placeholder="Enter Your Pincode. for Ex: 123456"
        id="Pin" required>
<label class="form-label" >Phone Number</label>
<input type="tel" class="form-control input_text" name="phone"
        placeholder="Enter Your Phone Number. For ex:
+91123456789" id="phone" required>
<label class="form-label" >Health Issues (if any)</label>
<input type="text" class="form-control input_text" name="Issues"
        placeholder="Ex: I have Anaemia or Cold or I suffered from
Corona" id="Issues">
<button type="submit" id="button" class="btn btn-primary"> Register </button>
<div class="note mt-3">
<!--Register form -->
<p> already have an account ? please <a href="login">login! </a></p>

</div>
</div>
</form>
</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
        integrity="sha384-
OERcA2EqjJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"

```

```
crossorigin="anonymous"></script>
```

```
</body>
```

```
</html>
```

reg2.html

```
<!DOCTYPE html>  
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>Plasma Donor Register</title>
```

```
<!-- bootstrap csscdn-->
```

```
<link rel="stylesheet"
```

```
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
```

```
"
```

```
    integrity="sha384-
```

```
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
```

```
crossorigin="anonymous">
```

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css/font-awesome.css">
```

```
<!--css stylesheet -->
```

```
<link rel="stylesheet" href="/static/css/style.css">
```

```
<!-- font styles cdn-->
```

```
<link rel="preconnect" href="https://fonts.gstatic.com">
```

```
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"  
rel="stylesheet">
```

```
<link
```

```
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"  
rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<!-- bootstrap navbar-->
```

```
<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body  
rounded">
```

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

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

```
<a class="navbar-brand text-danger" href="/">Plasma+</a>
```

```
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-  
bs-target="#navbarNav"
```

```
        aria-controls="navbarNav" aria-expanded="false" aria-  
label="Toggle navigation">
```

```
<span class="navbar-toggler-icon"></span>
```

```
</button>
```

```
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
```

```
<ul class="navbar-nav">
```

```
<li class="nav-item dropdown">
```

```

<a class="nav-link dropdown-toggle text-secondary" href="/" role="button"
    data-bs-toggle="dropdown" aria-
expanded="false">
    Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="/" role="button"
    data-bs-toggle="dropdown" aria-
expanded="false">
    Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>
</nav>
<!--navbar ends -->
<!-- Home page -->

<!--navbar ends -->
<!-- Login form -->
<div class="container mt-5">
<h2 class="form-text-h2"> Recipient Register Form </h2>
<form action="/register-recipient" method="post">

<div class="col-6 py-2">
<div class="msg">{{ msg }}</div>
<label class="form-label">Organisation Name</label>
<input type="text" class="form-control input_text" name="Name" data-
name="Name"
    placeholder="Organisation Name" id="Name" required>
<label class="form-label">Email ID</label>
<input type="email" class="form-control input_text" name="email" data-
name="email"
    placeholder="Organisation mail id" id="email" required>
<label class="form-label">Password</label>
<input type="password" class="form-control input_text" name="password" data-
name="password"
    placeholder="Password" id="password" required>

```

```

<label class="form-label">Address</label>
<input type="text" class="form-control input_text" name="Address" data-
name="Address"
                placeholder="Your organisation address" id="Address"
required>
<label class="form-label">Phone</label>
<input type="tel" class="form-control input_text" name="phone" data-
name="phone"
                placeholder="Phone Number" id="phone" required="">

<button type="submit" id="button" class="btn btn-primary"> Register </button>

<p> already have an account ? please <a href="login2">login! </a></p>

</div>
</form>

</div>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min
.js"
    integrity="sha384-
OERcA2EqJJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</body>

</html>

```

wel.html

```

<!DOCTYPE html>
<html lang="en">

<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Plasma Donor Register</title>

<!-- bootstrap csscdn-->
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
    integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<!--css stylesheet -->
<link rel="stylesheet" href="/static/css/style.css">
<!-- font styles cdn-->
<link rel="preconnect" href="https://fonts.gstatic.com">
<link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">

```



```

<link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
<!-- bootstrap navbar-->

<nav class="navbar navbar-expand-lg bg-light shadow-sm p-3 mb-5 bg-body
rounded">
<div class="container">
<div class="container-fluid">
<a class="navbar-brand text-danger" href="/">Plasma+</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-
bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse justify-content-end" id="navbarNav">
<ul class="navbar-nav">

<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Donate Donors
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
donor">Register</a></li>

</ul>
</li>
<li class="nav-item dropdown">
<a class="nav-link dropdown-toggle text-secondary" href="#" role="button"
        data-bs-toggle="dropdown" aria-
expanded="false">
                Need Plasma?
</a>
<ul class="dropdown-menu">
<li><a class="dropdown-item text-secondary" href="/login2">Login</a></li>
<li><a class="dropdown-item text-secondary" href="/register-
recipient">Register</a></li>

</ul>
</li>

</ul>
</div>
</div>
</div>

```

```

</nav>
<!--navbar ends -->
<!-- Home page -->

<div class="hero">
<div class="container">
<p class="h1 p-1"> Start donating plasma and save lives</p>
<div class="px-1 py-5">
<button onclick="window.location.href='register-donor'" class="btn btn-success">For Donor</button>
<button onclick="window.location.href='register-recipient'" class="btn btn-info">For Recipients</button>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
OERcA2EqJJCMA+/3y+gxIOqMEjwtxJY7qPCqsdltbNJuaOe923+mo//f6V8Qbsw3"
crossorigin="anonymous"></script>

</div>
</div>
</body>

</html>

```

app.py

```

from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
# from flask_mail import Mail, Message
import re

app = Flask(__name__)
# mail = Mail(app)

# app.config['MAIL_SERVER']='smtp.gmail.com'
# app.config['MAIL_PORT'] = 465
# app.config['MAIL_USERNAME'] = 'psuswin00@gmail.com'
# app.config['MAIL_PASSWORD'] = 'Su$i0410'
# app.config['MAIL_USE_TLS'] = False
# app.config['MAIL_USE_SSL'] = True
# mail = Mail(app)

app.secret_key='a'

conn =ibm_db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;USERNAM
E=zxd72229;PASSWORD=XEdSEnZ2jpYUndqg;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")

@app.route("/", methods=['GET', 'POST'])
def home():
    return render_template("wel.html")

```

```

@app.route("/",methods=['GET', 'POST'])
def home1():
    return render_template("home.html")

@app.route("/register-donor",methods=['GET', 'POST'])
def register_donor():
    msg=''
    if request.method=='POST':
        Fullname =request.form['Fullname']
        password =request.form['password']
        email =request.form['email']
        DOB = request.form['DOB']
        Gender = request.form['Gender']
        BloodGroup = request.form['BloodGroup']
        State = request.form['State']
        Pin = request.form['Pin']
        phone = request.form['phone']
        Issues = request.form['Issues']
        sql="SELECT * FROM samp WHERE fullname =?"
        stmt= ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1, Fullname)
        ibm_db.execute(stmt)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg='Account already exists !'
        elif not re.match(r'^[^\@]+\@[^\@]+\.[^\@]+', email):
            msg='Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', Fullname):
            msg='name must contain only characters and numbers !'
        else:
            insert_sql="INSERT INTO  samp VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)"
            prep_stmt=ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(prepare_stmt,1,Fullname)
            ibm_db.bind_param(prepare_stmt,2,password)
            ibm_db.bind_param(prepare_stmt,3,email)
            ibm_db.bind_param(prepare_stmt,4,DOB )
            ibm_db.bind_param(prepare_stmt,5,Gender)
            ibm_db.bind_param(prepare_stmt,6,BloodGroup)
            ibm_db.bind_param(prepare_stmt,7,State)
            ibm_db.bind_param(prepare_stmt,8,Pin)
            ibm_db.bind_param(prepare_stmt,9,phone)
            ibm_db.bind_param(prepare_stmt,10,Issues)
            ibm_db.execute(prepare_stmt)
            msg='You have successfully registered !'
        elif request.method=='POST':
            msg='Please fill out the form !'
        return render_template('reg1.html',msg=msg)

@app.route("/register-recipient",methods=['GET', 'POST'])
def register_recipient():
    msg=''
    if request.method=='POST':
        Name =request.form['Name']
        email =request.form['email']
        password =request.form['password']

```

```

        Address =request.form['Address']
        phone = request.form['phone']
sql="SELECT * FROM recip WHERE name =?"
stmt= ibm_db.prepare(conn,sql)
ibm_db.bind_param(stmt,1, Name)
ibm_db.execute(stmt)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
msg='Account already exists !'
elif not re.match(r'^@[^@]+\.[^@]+', email):
msg='Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', Name):
msg='name must contain only characters and numbers !'
        else:
insert_sql="INSERT INTO recip VALUES (?, ?, ?, ?, ?)"
prep_stmt=ibm_db.prepare(conn,insert_sql)
ibm_db.bind_param(prepare_stmt,1,Name)
ibm_db.bind_param(prepare_stmt,2,email)
ibm_db.bind_param(prepare_stmt,3,password)
ibm_db.bind_param(prepare_stmt,4,Address)
ibm_db.bind_param(prepare_stmt,5,phone)
ibm_db.execute(prepare_stmt)
msg='You have successfully registered !'
elif request.method=='POST':
msg='Please fill out the form !'
        return render_template('reg2.html',msg=msg)

@app.route("/login",methods=['GET', 'POST'])
def login_donor():
    global userid
    msg=''

    if request.method=='POST':
        email =request.form['email']
        password =request.form['password']
sql="SELECT * FROM samp WHERE email =? AND password=?"
stmt=ibm_db.prepare(conn,sql)
ibm_db.bind_param(stmt,1, email)
ibm_db.bind_param(stmt,2, password)
ibm_db.execute(stmt)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['loggedin'] =True
            session['id'] = account['EMAIL']
userid= account['EMAIL']
            session['email'] = account['EMAIL']
msg='Logged in successfully !'

msg='Logged in successfully !'
        return render_template('home_donor.html',msg=msg)
    else:
msg='Incorrect username / password !'
        return render_template('login1.html',msg=msg)
@app.route('/logout')

```

```

def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login_donor'))

@app.route("/login2",methods=['GET', 'POST'])
def login_recipient():
    global userid
    msg=''

    if request.method=='POST':
        email =request.form['email']
        password =request.form['password']
        sql="SELECT * FROM recip WHERE email =? AND password=?"
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1, email)
        ibm_db.bind_param(stmt,2, password)
        ibm_db.execute(stmt)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['loggedin'] =True
            session['id'] = account['EMAIL']
            userid= account['EMAIL']
            session['email'] = account['EMAIL']
            msg='Logged in successfully !'

            msg='Logged in successfully !'
            return render_template('home_recipient.html',msg=msg)
        else:
            msg='Incorrect username / password !'
            return render_template('login2.html',msg=msg)

@app.route('/logout2')
def logout2():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return render_template('login2.html')

# @app.route('/send_email', methods = ['POST'])
# def send():
#     if 'blood' in request.form:
#         type = request.form['blood']
#         stmt = ibm_db.prepare(conn, 'SELECT email FROM samp WHERE blood =
# ?')
#         ibm_db.bind_param(stmt,1,type)
#         ibm_db.execute(stmt)
#         tb = ibm_db.fetch_tuple(stmt)
#         mails = []
#         while tb != False:
#             mails.append(tb[0])
#             tb = ibm_db.fetch_tuple(stmt)

```

```

#         msg = Message('Blood Request', recipients=mails)
#         msg.body = "Here the " + request.form['blood'] + " Blood Requested"
#         mail.send(msg)
#         return render_template('display.html', state="SENT")

#     return 'Please Provide Blood in Form'

@app.route('/display', methods=['GET', 'POST'])
def display():
    if 'id' in session:
        if 'blood' in request.form:
            type = request.form['blood']
            stmt = ibm_db.prepare(conn, 'SELECT Fullname FROM samp WHERE
blood = ?')
            ibm_db.bind_param(stmt,1,type)
            ibm_db.execute(stmt)
            tb = ibm_db.fetch_tuple(stmt)
            data = []
            while tb != False:
                data.append(tb[0])
                tb = ibm_db.fetch_tuple(stmt)

            return render_template('display.html', data=data,
blood=request.form['blood'], state="NOTSENT")
        return redirect('login2')
    return 'Not Authed'

if __name__ == '__main__':
    app.debug=True
    app.run(host='0.0.0.0',port=8080)

```

main.py

```

from flask import Flask
from flask_mail import Message,Mail

app = Flask(__name__)
mail = Mail(app)

app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True

```

```
@app.route("/")
def index():

    msg = Message("Hello",
                  sender="psuswin00@gmail.com",
                  recipients=["suswinpalaniswamy@gmail.com"])

    mail.send(msg)
    return 'sent'

if __name__ == '__main__':
    app.run(debug=True)
```