PLASMA DONOR APPLICATION

IBM – DOCUMENTATION

UNDER THE GUIDANCE OF

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TEAM ID : PNT2022TMID38955

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KRISHNASAMY COLLEGE OF ENGINEERING AND TECHNOLOGY

ANNA UNIVERSITY : 2019-2023

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INTRODUCTION

PROJECT OVERVIEW:

There is an expectation that the blood will always be there when it is really needed. Blood donor volunteers constitute the main supply source in an effective blood supply chain management. They feed blood stocks through their donation. In an emergency situation, if the stocks are insufficient, the only source of blood supply will be the people who come to the health center and donate the blood on a voluntary basis. It is certain that time is a very important component in such situation. For this reason, the health care center should call the nearest available donor in order to ensure to get the service as quickly as possible. A smart phone application is developed to facilitate the identification of the nearest available blood donor volunteer and the communication with him/her in the emergency situations where the blood can't be supplied through the blood banks' stocks. In this paper this application will be presented.

PURPOSE:

- To develop a system that provides functions to support donors to view and manage their information conveniently.
- To maintain records of blood donors, blood donation information and the blood stocks in a centralized database system.
- To inform donors of their blood result after their donation.
- To support searching, matching and requesting for blood convenient for administrators.

LITERATURE SURVEY

Several experiments have been carried out over the years by different groups of researchers. Here are some of the following groups:

1.Denuis O'Neil (1999). "Blood component" Archived from the original on June 5, 2013. Normally, a certain amount of human body weight comes from blood. For adults, it is 4-6 litres of blood. This essential liquid plays an important role in transporting oxygen and nutrients to cells and removing carbon dioxide, ammonia and other waste products. Blood is a very common tissue composed of over 4000 different types of components.

2. Ways to keep your plasma healthy, Original Archived November 1, 2013, Accessed November 11, 2011. Plasma donation is one of the most accepted practices for saving lives,While earning a few dollars. The whole process can take some time, but it's well worth it once you experience it a few times. Accepting money in exchange for plasma is welcome. It's a move when you feel like you're not just a hero, but you're adding value to yourself. The term "healthy" does not mean only in the absence of disease. It also means that you are healthy enough.

3. Ripathis S, Kumar V, Prabhakar A, Joshi S, Agarwal A (2015). "Microscale Passive Plasma Separation: A Review of Design Principles and Microdevices," J. Micromech Micro 25 (8): 083001; Plasma separation is of great importance in the fields of diagnosis and healthcare. Due to the lagging transition to microscale, these recent trends are a rapid shift towards shrinking complex macro processes.

4.Kalpana DeviGuntoju,Tejaswini Jalli,Sreeja Uppala,Sanjay

Mallisettiinstant plasma donor recipient connector web application 2022. JOURNAL: InternationalResearch Journal ofModernization inEngineeringTechnology and Science.

5.M Sai Tarun, Ravi Kishan,Shaik AzaadSuraz Basha,Shaik RajAhammad, UChandrasekhar,Neha BaggaBlood BankManagement System2021. Journal of Emerging Technologies and Innovative Research.

6.Nayan Das, MDAsif Iqbal Nearest Blood Plasma Donor Finding:A Machine Learning Approach 2020 23rd International Conference on Computer and Information Technology.

7.Ms. PradnyaJagtap,Ms.MonikaMandale,Ms.Prachi Mhaske,Ms.SonaliVidhate,Mr. S.S. Patil Implementation of blood donation application using android smartphone 2018 Open access International journal of science & engineering.

EXISTING SYSTEM:

Convalescent Plasma Therapy is an investigational therapeutic method recommended as a treatment strategy for COVID19 as vaccines, and proper treatment methods were unavailable. The therapy involves transfusing antibody contained plasma from the COVID recovered individuals (donors) into critically affected patients. It can accelerate the recovery of the recipient. The effectiveness of antibodies is affected by the health and clinical history of donors, according to research. It implies the possibility of implementing Machine Learning Classification models for predicting the Eligible donors (who meet the threshold antibody level for donation) and Regression models to predict the antibody level value of a

donor from the person's clinical history before conducting tests for the same. The proposed system can help the health authorities approach the most probably efficient donors for the therapy rather than wasting time and test kits on a random donor who may or may not be eligible. The results from various ML algorithms trained on a synthetic clinical history dataset are examined and assessed as significant to some degree. The system has to be validated against real data to arrive at reasonable conclusions. This paper demonstrates how a data-driven solution is more beneficial than the conventional methods for donor search

REFERENCES :

- G.Marano et al. "Convalescent plasma: new evidence for an old therapeutic tool?." Blood transfusion = Trasfusione del sangue vol. 14(2) pp. 152-7, March 2016.
- P.Tiberghien et al., "Collecting and evaluating convalescent plasma for COVID-19 treatment: why and how?", Vox sanguinis, vol. 115(6) pp. 488-494, August 2020.
- K.Rajendran et al., "Convalescent plasma transfusion for the treatment of COVID-19: Systematic review. Journal of medical virology", Journal of Medical Virology, vol.92, pp. 1475-1483, September 2020.

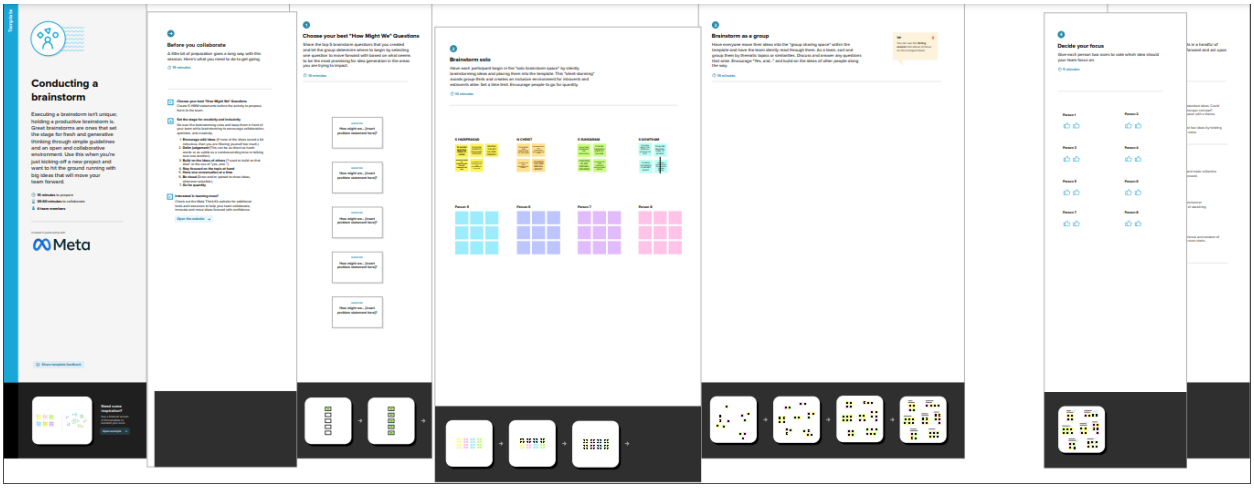
PROBLEM STATEMENT DEFINITION:

- During COVID 19 crisis the requirement for plasma increased drastically as there were no vaccinations found in order to treat the infected patients.
- In such situation it was very difficult to find the plasma donor, check whether the donor was infected previously andwas recovered, and which donor is eligible to donate plasma was a challengingtask.
- As the plasma therapy was one of theways to treat the infected patients getting the donor details playeda major role.

IDEATION AND PROPOSED SOLUTION:

EMPATHY MAP CANVAS:

IDEATION AND BRAINSTROMING:



PROPOSED SOLUTION

Proposed Solution Template:

Project team shall fill the following information in proposedsolution template.

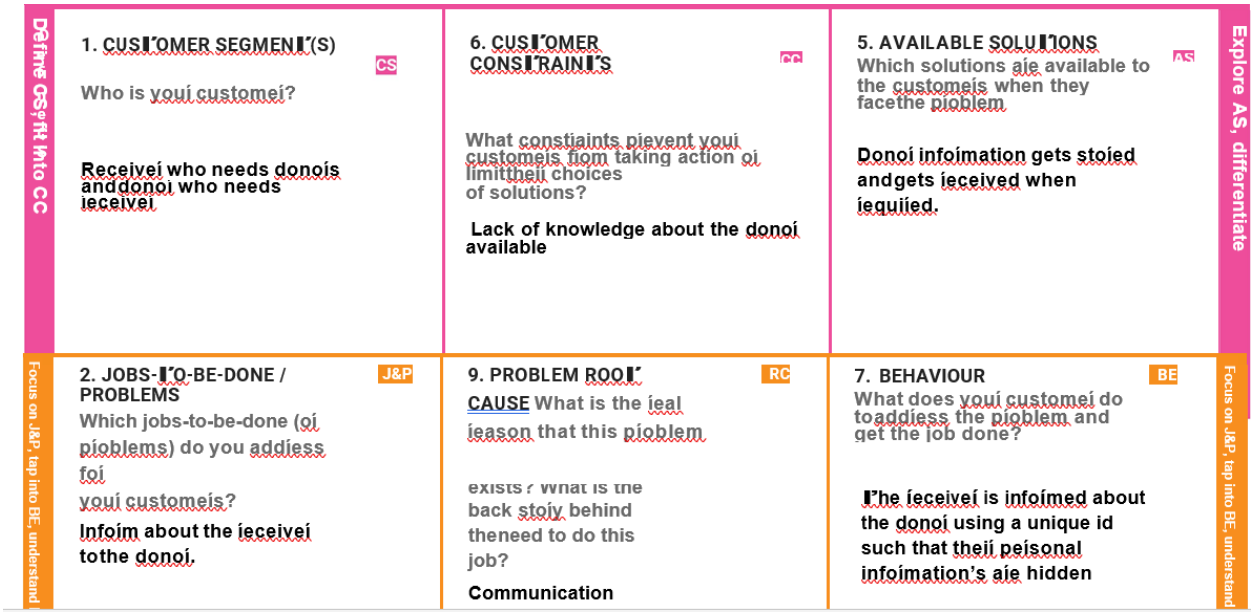
S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	During COVID 19 crisis the requirement for plasma increased drastically as there were no vaccinations found in order to treat the infected patients. In such situation it was very difficult to find the plasma donor, check whether thedonor was infected previously andwasrecovered, and whichdonor is eligible to donate plasma was a challengingtask. As the plasma therapy was one of theways to treat the infected patients getting the donordetails played a major role.

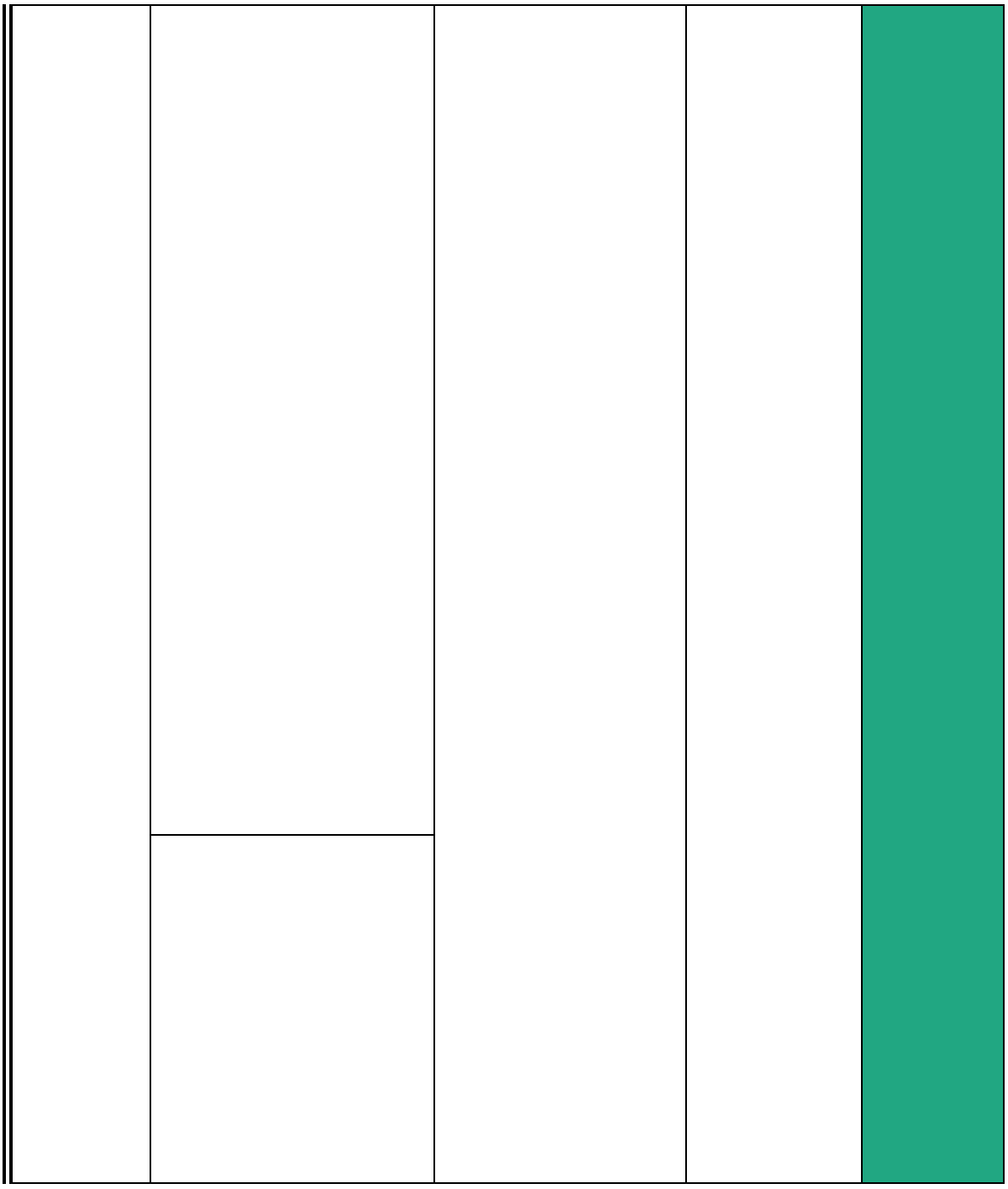
2.	Idea / Solution description	This proposed system aims at connecting the donors & the patients by an online application.By this creating application with UI to interact with the user for getting the donor details ,who need it can see their details providing them upon the recipient's request so that they can get the plasma.
3.	Novelty / Uniqueness	Our application allow the user to request and donate the plasma.The person need the plasma immediately or pre request. You have plasma immediately then give emergency request, then all registered member on the application to getvoice alert.
4.	Social Impact / Customer Satisfaction	In this covid19 period the requirement for plasma need high and the donor count has low,so using this application provides opportunity come forward to donate plasma. we have predicted that effect of donor motivation on donor relationship satisfaction and loyalty change.

5.	Business Model(Revenue Model)	The application is user friendly and can be easily used. User Data can be stored in IBM DB2in cloud which reduces the overall cost incurredfor developing the application. This application is accessible by everyone . This can be used anywhere anytime.
6.	Scalability of the Solution	This application helps users to find plasma donors by sitting in home itself instead of searching donors everywhere. When there is a emergency then plasma request to send to everyone. Once the donor is ready to donate receiver is notified about donation. Receiver can contact the donor. With this app donor canknow the eligibility to donate and making it easier to locatesuitable donor at right time.

PROBLEM SOLUTION FIT:

Project Title: Plasma Donor Application





FUNCTION REQUIREMENT:

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 the Form (WebApp)
FR-2	User Confirmation	Confirmation viathe Email Confirmation via the OTP
FR-3	Certification	After the donor donates plasma, we will give them a certificate of appreciation and authentication.
FR-4	Statistical data	The availability of plasma is given in the page asstatus, which will be helpful for the users.
FR-5	User PlasmaRequest	Users canrequest to donateplasma by fillingout the request form on the page. Once the request is submitted, theywill get an email
FR-6	Searching/reporting requirements	Users can use the searchbar to lookup informationaboutcamps and othertopics.
FR-8	Virtual Assistants	A virtual assistant is a software agent that can carry out tasksor provide services on behalf of a personin response to commands or inquiries. When users entertheir inquiries, the system will respond with pertinent information about plasma and details of plasma donation.

NON FUNCTION REQUIREMENT:

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 the Form (WebApp)
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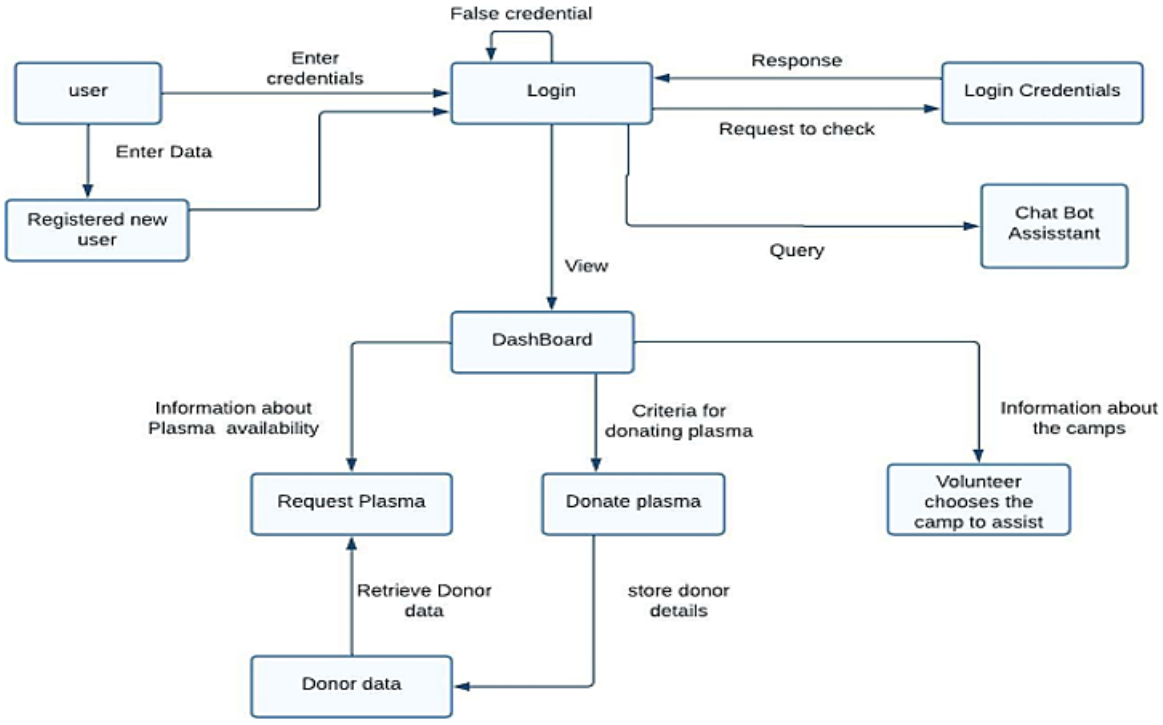
PROJECT DESIGN:

DATA FLOW DIAGRAM:



SOLUTION ARCHITECTURE:

Sl.No	Parameter	Description
1.	Is the System Robust?	Yes, the system is robust that it can'tbe crashed intermittently and it has been tested for several times before placing it to the high availability environment.
2.	Is it highly modifiable?	Yes, the system is modifiable and it can admitto the changesby detecting errorsthat needs to be fixed and new functionalities. It is highly Responsive changes.
3.	Is it Scalable?	Yes, the system proposed is highly scalable as it canhandle the growingworkload where goodperformance is also needed to work efficiently.Deployment of the platform has been done using various OS virtualization platform it will handle the workload statistically.

4.	Is it buildable?	Yes, it is partially buildable platform as the budget required will be more as cloud is a pay per use model and time takenwill be quite comparatively less.

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 (Mobileuser)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can accessmy account /dashboard	High	Sprint-1
		USN-2	As a user,I will receiveconfirmation emailonceI have registered for the application	I can receiveconfirmation onemail &click confirm	High	Sprint-1
		USN-3	As a user, I can register for the applicationthrough Gmail	I can receive confirmation notifications through Gmail	Medium	Sprint-1
	Login	USN-4	As a user,I can loginto the application by entering email& password	I can access into my User profile and view details in dashboard	High	Sprint-1
	Dashboard	USN-5	As a user Ican send the proper requests todonate and obtain plasma.	I can receiveappropriate notifications through email	High	Sprint-1
Customer (Web user)	Login	USN-6	As a user I canregister and loginto the application by entering email & password toview the profile	I can access into my User profile and view details indashboard	High	Sprint-1
	Dashboard	USN-7	As a user I can sendthe proper requests todonate and obtain plasma.	I can receiveappropriate notifications through email	High	Sprint-1
Customer Care Executive	Application	USN-8	As a customer care executive, I can try toaddress user's concerns and questions	I can view and addresstheir concerns detailsand questions	Medium	Sprint-2

Administrator	Application	USN-9	As an admin I can help with user-facing aspectsof a website, like its appearance, navigation and use of media.	I can change appearance and navigation in a user-friendly manner.	Medi um	Sprint-3
		USN-10	As an admin,I can involve working withthe technical sideof websites.	I can help with such as Troubleshooting issues,setting up web hosts,ensuring users haveaccess and programming servers.	Medi um	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story/ Task	Acceptance criteria	Priority	Release
Chatbot	Dashboard	USN-11	In addition the Customer- care executive chatbot you can try to address user'sConcerns details and questions	I can reply to all thequeriesrelated to ourapplication.	Medium	Sprint-3

PROJECT PLANNING & SCHEDULING:

SPRINT PLANNING & ESTIMATION:

TITLE	DESCRIPTION	DATE
Setting up application environment	Developing a flask project , creation of IBM cloud , installation of IBM cloud CLI , docker CLI installation and creation of account in sendgrid.	01 agu 2022

Implementing web application	It includes creation of UI to interact with application and creation of IBM DB2 and connect wiyh python.	11 agu 2022
Integrating sendgrid Services	In this phase , only need to create the sendgrid integration with python code.	inprogress
Deployment of app in IBM cloud	It contains containerize the app,upload image to IBM container registry and deploy in kubernetes cluster	Inprogress.

Literature survey	gather/collect the relevant information on project use case.	22 agu 2022
Empathy map	It contain the canvas of our project and it includes the pain and gain	02 sep 2022
Ideation	organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility &	05 sep 2022

	importance	
Proposed solution	It consist of problem to be solved ,novelty, social impact,business model and scalablity.	10 sep 2022
Problem solution fit	It consist of customer segments and customer constraints.	13 sep 2022
Solution architecture	. It contains functional requirements and user stories	15 sep 2022
Customer journey	user interactions & experiences with the application (entry to exit)	21 sep 2022

Functional requirement	It includes to collect the fuctional requirements.	23 sep 2022
Data flow diagram	Visual representation of the information flow.	25 sep 2022

Technology architecture	It contains components and technology and application characteristics.	3 oct 2022
Planning phase	It contains milestone activities and sprint delivery.	15 oct 2022
Development phase	Develop and submit the developed code	inprogress

SPRINT DELIVERY SCHEDULING:

Use the below templateto create productbacklog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can registerfor the application by entering my email, password, and confirming mypassword.	2	High	

Sprint-1		USN-2	As a user, I will receive confirmation emailonce I have registered for theapplication	1	High	
Sprint-2		USN-3	As a user, I can registerfor the application through Gmail	2	Medium	
Sprint-2	Login	USN-4	As a user,I can log intothe application by entering email	1	High	
Sprint-3	Dashboard	USN-5	As a user/patient I can request for plasmadonation .	2	Medium	
Sprint-4		USN-6	As a user/donor I candisplay my health certificate to donate plasma	1	High	

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

Sprint	TotalStory Points	Duration	SprintStart Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	07 Nov 2022

Sprint	TotalStory Points	Duration	SprintStart Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

FINAL COADING:

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8">
   <title>blood stock</title>
   <link rel="stylesheet" href="finalcss.css">
</head>
<style>

table, th, td {
 border:1px solid black;
}
</style>
<body>

<h2>Blood stocks</details></table></h2>
<table style="width:100%">
 <tr>
   <th> Blood group</th>
   <th>Available bank</th>
   <th>Available Unit</th>
   <th>Status</th>
  <th> Date</th>
</tr>
 <tr>
   <td> O+ve</td>
   <td> Chennai branch</td>
   <td> 3</td>
   <td> Requested</td>
   <td>12.11.2022. </td>
```

```
 </tr>
 <tr>
   <td> B+ve</td>
   <td> Chennai branch</td>
   <td> 5</td>
   <td> Requested</td>
   <td>03.11.2022. </td>
 </tr>
```

Donor.html

```
<!DOCTYPE html>
<html>
<head>
   <meta charset="utf-8">
   <title>Plasma donor details</title>
</head>
<style>

table, th, td {
 border:1px solid black;
}
</style>
<body>
<div align:"center">
<h2 >Plasma Donor details</h2></div>
<div class="wrapper">
<table style="width:100%">
```

```
<tr>
  <th>Donor Name</th>
  <th>Disease</th>
  <th>Age</th>
 <th>Bloog group</th>
 <th>Unit</th>
 <th>Status</th>
 <th>Request date</th>
</tr>
<tr>
  <td> Sowmya.p</td>
  <td> Healthy</td>
  <td> 21</td>
  <td>o+ve </td>
  <td>2  </td>
  <td> Approved</td>
  <td> 14.11.2022</td>
</tr>
<tr>
```

```
   <td> Siva</td>
   <td>  Healthy </td>
   <td> 21</td>
   <td>b+ve </td>
   <td>2  </td>
   <td> Approved</td>
   <td> 14.11.2022</td>
 </tr>

 <tr>
   <td> Swathi</td>
   <td> Healthy </td>
   <td> 21</td>
   <td>Ab+ve </td>
   <td>3 </td>
   <td> Approved</td>
   <td> 14.11.2022</td>
 </tr>
 <div>
</table>


</body>
</html>
```

Fincalcss.css

```
@import
url('https://fonts.googleapis.com/css?family=Poppins:400,500,600,700&display=swap')
;
*{
 margin: 0;
 padding: 0;
 box-sizing: border-box;
 font-family: 'Poppins', sans-serif;
}
.wrapper{
 height: 100%;
 width: 300px;
 position: relative;
}
.wrapper .menu-btn{
 position: absolute;
 left: 20px;
 top: 10px;
 background: #4a4a4a;
```

```
 color: #fff;
 height: 45px;
 width: 45px;
 z-index: 9999;
 border: 1px solid #333;
 border-radius: 5px;
 cursor: pointer;
 display: flex;
 align-items: center;
 justify-content: center;
 transition: all 0.3s ease;
}
#btn:checked ~ .menu-btn{
 left: 247px;
}
.wrapper .menu-btn i{
 position: absolute;
 transform: ;
 font-size: 23px;
 transition: all 0.3s ease;
}
.wrapper .menu-btn i.fa-times{
 opacity: 0;
}
#btn:checked ~ .menu-btn i.fa-times{
 opacity: 1;
 transform: rotate(-180deg);
}
#btn:checked ~ .menu-btn i.fa-bars{
 opacity: 0;
 transform: rotate(180deg);
```

```
 position: fixed;
 background: #404040;
 height: 100%;
 width: 270px;
 overflow: hidden;
 left: -270px;
 transition: all 0.3s ease;
}
#btn:checked ~ #sidebar{
 left: 0;
}
#sidebar .title{
```

```
 line-height: 65px;
 text-align: center;
 background: #333;
 font-size: 25px;
 font-weight: 600;
 color: #f2f2f2;
 border-bottom: 1px solid #222;
}
#sidebar .list-items{
 position: relative;
 background: #404040;
 width: 100%;
 height: 100%;
 list-style: none;
}
#sidebar .list-items li{
 padding-left: 40px;
 line-height: 50px;
 border-top: 1px solid rgba(255,255,255,0.1);
 border-bottom: 1px solid #333;
 transition: all 0.3s ease;
}
#sidebar .list-items li:hover{
 border-top: 1px solid transparent;
 border-bottom: 1px solid transparent;
 box-shadow: 0 0px 10px 3px #222;
}
#sidebar .list-items li:first-child{
 border-top: none;
}
```

```
#sidebar .list-items li:first-child{
 border-top: none;
}
#sidebar .list-items li a{
 color: #f2f2f2;
 text-decoration: none;
 font-size: 18px;
 font-weight: 500;
 height: 100%;
 width: 100%;
 display: block;
}
#sidebar .list-items li a i{
 margin-right: 20px;
}
#sidebar .list-items .icons{
 width: 100%;
 height: 40px;
```

```
 text-align: center;
 position: absolute;
 bottom: 100px;
 line-height: 40px;
 display: flex;
 align-items: center;
 justify-content: center;
}
#sidebar .list-items .icons a{
 height: 100%;
 width: 40px;
 display: block;
 margin: 0 5px;
 font-size: 18px;
 color: #f2f2f2;
 background: #4a4a4a;
 border-radius: 5px;
 border: 1px solid #383838;
 transition: all 0.3s ease;
}
#sidebar .list-items .icons a:hover{
 background: #404040;
}
.list-items .icons a:first-child{
 margin-left: 0px;
}
.content{
 position: absolute;
 top: 50%;
 left: 50%;
```

```
 transform: translate(-50%,-50%);
 color: #202020;
 z-index: -1;
 width: 100%;
 text-align: center;
}
.content .header{
 font-size: 45px;
 font-weight: 700;
}
.content p{
 font-size: 40px;
 font-weight: 700;
}
```

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
     <meta charset="utf-8">
     <title>Plasma donor</title>
     <link rel="stylesheet" href="finalcss.css">
     <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css"/>
  </head>
  <body>
     <div class="wrapper">
        <input type="checkbox" id="btn" hidden>
        <label for="btn" class="menu-btn">
        <i class="fas fa-bars"></i>
        <i class="fas fa-times"></i>
        </label>
        <nav id="sidebar">
           <div class="title">
              Side Menu
           </div>
           <ul class="list-items">

              <li><a href="file:///Users/siva-pt6291/plasma/plamadonor/home.html#"
target="iframe_a"><i class="fas fa-home"></i>Home</a></li>
              <li><a href="file:///Users/siva-pt6291/plasma/plamadonor/donor.html"
target="iframe_a"><i class="fas fa-user"></i>Donor</a></li>
              <li><a
href="file:///Users/siva-pt6291/plasma/plamadonor/patient.html"
target="iframe_a"><i class="fas fa-address-book"></i>Patient</a></li>
              <li><a
href="file:///Users/siva-pt6291/plasma/plamadonor/bloodstock.html"
fa-cog"></i>Logout</a></li>
           <div class="icons">
              <a href="#"><i class="fab fa-facebook-f"></i></a>
              <a href="#"><i class="fab fa-twitter"></i></a>
              <a href="#"><i class="fab fa-github"></i></a>
              <a href="#"><i class="fab fa-youtube"></i></a>
           </div>

        </ul>
     </nav>
  </div>
```

```
        </p>
      </div>
      <div align="right"  padding: 25px 50px 75px 100px;> <iframe
src="file:///Users/siva-pt6291/plasma/plamadonor/welcome.html" name="iframe_a"
title="Iframe Example " width="900px" height="600px" ></iframe>

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

```
<!DOCTYPE html>
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>Login Page in HTML with CSS Code Example</title>
 <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">


<link
href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css"
rel="stylesheet"
integrity="sha384-wvfXpqpZZVQGK6TAh5PVlGOfQNHSoD2xbE+QkPxCAFlNEevoEH3Sl0sibVcOQVnN"
crossorigin="anonymous"><link rel="stylesheet" href="./style1.css">

</head>
<body>
<!-- partial:index.partial.html -->
<div class="box-form">
   <div class="left">
       <div class="overlay">
       <h1>Plasama Donor</h1>


       </div>
   </div>


       <div class="right">
       <h5>Login</h5>
       <p>Don't have an account? <a href="#">Creat Your Account</a> it takes less
than a minute</p>
```

```
            <input type="text" placeholder="user name">
            <br>
            <input type="password" placeholder="password">
        </div>

            <br><br>

        <div class="remember-me--forget-password">


            <p>forget password?</p>
        </div>

            <br>
            <button>Login</button>
    </div>

</div>
<!-- partial -->
 </body>
</html>
```

Logout.html

```
<!DOCTYPE html>
<html>
<body>

   <h2 style="text-align:center;"> You Logged out this Application</h2>
   <img
src="https://cdn.dribbble.com/users/1044993/screenshots/13234956/media/e83a3fdf897b
cdd4762048aa58c8a68e.png?compress=1&resize=400x300&vertical=top" width="100%"
height="600px">

</body>
</html>
```

Patient.html

```
<!DOCTYPE html>
<html>
<style>
table, th, td {
 border:1px solid black;
}
</style>
<body>
```

```
<h2>Patient details</h2>

<table style="width:100%">
 <tr>
   <th>Patient Name</th>
   <th>Disease</th>
   <th>Age</th>
   <th>Blood Group required</th>
   <th>Unit</th>
   <th>Request Date</th>
   <th>Status</th>
 </tr>
 <tr>
   <td>Ben</td>
   <td>Nothing</td>
   <td>20</td>
   <td>O+</td>
   <td>3</td>
   <td>1/1/22</td>
   <td>Approved</td>

</tr>
 <tr>
   <td>Siva</td>
   <td>BP</td>
   <td>20</td>
   <td>B+</td>
   <td>2</td>
   <td>2/12/22</td>
   <td>Denied</td>
```

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
   <meta charset="UTF-8">
   <!---<title>Registration Form </title>--->
   <link rel="stylesheet" href="style.css">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
<body>
 <div class="container">
   <div class="title">Plasma Donor Registration</div>
   <div class="content">
     <form action="#">
       <div class="user-details">
         <div class="input-box">
           <span class="details">Full Name</span>
           <input type="text" placeholder="Enter your name" required>
         </div>
         <div class="input-box">
           <span class="details">Username</span>
           <input type="text" placeholder="Enter your username" required>
         </div>
         <div class="input-box">
           <span class="details">Email</span>
           <input type="text" placeholder="Enter your email" required>
         </div>
         <div class="input-box">
           <span class="details">Phone Number</span>
           <input type="text" placeholder="Enter your number" required>
         </div>
         <div class="input-box">
```

```
          <div class="category">
            <label for="dot-1">
            <span class="dot one"></span>
            <span class="gender">Male</span>
          </label>
          <label for="dot-2">
            <span class="dot two"></span>
            <span class="gender">Female</span>
          </label>
          <label for="dot-3">
            <span class="dot three"></span>
            <span class="gender">Prefer not to say</span>
            </label>
          </div>
        </div>
        <div class="button">
          <input type="submit" value="Register">
        </div>
      </form>
    </div>
  </div>

</body>
</html>
```

Style1.css

```css
body {
   background-image: linear-gradient(135deg, #FAB2FF 10%, #1904E5 100%);
   background-size: cover;
   background-repeat: no-repeat;
   background-attachment: fixed;
   font-family: "Open Sans", sans-serif;
   color: #333333;
   height: 60%;
}

.box-form {
   margin: 0 auto;
   width: 70%;
   height: 70%;
   background: #ffffff;
   border-radius: 10px;
   overflow: hidden;
   display: flex;
   flex: 1 1 100%;
   align-items: stretch;
```

```
    justify-content: space-between;
    box-shadow: 0 0 20px 6px #090b6f85;
  }
  @media (max-width: 980px) {
    .box-form {
        padding-top: 20px;
      flex-flow: wrap;
      text-align: center;
      align-content: center;
      align-items: center;
      height: 70%;
    }
  }
  .center {
    margin: auto;
    width: 50%;
    border: 3px solid green;
    padding: 10px;
    height: 70%;
  }
  .box-form div {
    height: auto;
  }
  .box-form .left {
    color: #FFFFFF;
    background-size: cover;
    background-repeat: no-repeat;
    background-image:
url("https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQ4QYNT_tKN2gUUg-2xlwTKFr
QOTBqe148bEclVw7Ab-8t0Wmd2e1Lu1PId8hwIzgSmqMo&usqp=CAU");
    overflow: hidden;
```

```
}
.box-form .left .overlay {
  padding: 80px;
  width: 100%;
  height: 100%;
  background: #5961f9ad;
  overflow: hidden;
  box-sizing: border-box;
}
.box-form .left .overlay h1 {
  font-size: 10vmax;
  line-height: 1;
  font-weight: 900;
  margin-top: 40px;
```

```
  margin-bottom: 20px;
}
.box-form .left .overlay span p {
  margin-top: 30px;
  font-weight: 900;
}
.box-form .left .overlay span a {
  background: #3b5998;
  color: #FFFFFF;
  margin-top: 10px;
  padding: 14px 30px;
  border-radius: 10px;
  display: inline-block;
  box-shadow: 0 3px 6px 1px #042d4657;
}
.box-form .left .overlay span a:last-child {
  background: #1dcaff;
  margin-left: 30px;
}
.box-form .right {
  padding: 10px;
  width: 250px;
  overflow: hidden;
}
@media (max-width: 980px) {
  .box-form .right {
    width: 100%;
  }
}
.box-form .right h5 {
```

```
  font-size: 6vmax;
  line-height: 0;
}
.box-form .right p {
  font-size: 14px;
  color: #B0B3B9;
}
.box-form .right .inputs {
  overflow: hidden;
}
.box-form .right input {
  width: 100%;
  padding: 10px;
  margin-top: 25px;
  font-size: 16px;
```

```
  border: none;
  outline: none;
  border-bottom: 2px solid #B0B3B9;
}
.box-form .right .remember-me--forget-password {
  display: flex;
  justify-content: space-between;
  align-items: center;
}
.box-form .right .remember-me--forget-password input {
  margin: 0;
  margin-right: 7px;
  width: auto;
}
.box-form .right button {
  float: right;
  color: #fff;
  font-size: 16px;
  padding: 12px 35px;
  border-radius: 50px;
  display: inline-block;
  border: 0;
  outline: 0;
  box-shadow: 0px 4px 20px 0px #49c628a6;
  background-image: linear-gradient(135deg, #70F570 10%, #49C628 100%);
}
 label {
  display: block;
  position: relative;
  margin-left: 30px;
}
```

```
 label {
  display: block;
  position: relative;
  margin-left: 30px;
}
 label::before {
  content: ' \f00c';
  position: absolute;
  font-family: FontAwesome;
  background: transparent;
  border: 3px solid #70F570;
  border-radius: 4px;
  color: transparent;
  left: -30px;
  transition: all 0.2s linear;
}
 label:hover::before {
  font-family: FontAwesome;
  content: ' \f00c';
```

```
  color: #fff;
  cursor: pointer;
  background: #70F570;
}
 label:hover::before .text-checkbox {
  background: #70F570;
}
 label span.text-checkbox {
  display: inline-block;
  height: auto;
  position: relative;
  cursor: pointer;
  transition: all 0.2s linear;
}
 label input[type="checkbox"] {
  display: none;
}
```

Style.css

```
body {
  background-image: linear-gradient(135deg, #FAB2FF 10%, #1904E5 100%);
  background-size: cover;
  background-repeat: no-repeat;
  background-attachment: fixed;
  font-family: "Open Sans", sans-serif;
  color: #333333;
}
 .box-form {
  margin: 0 auto;
  width: 80%;
  background: #FFFFFF;
```

```
  margin: 0 auto;
  width: 80%;
  background: #FFFFFF;
  border-radius: 10px;
  overflow: hidden;
  display: flex;
  flex: 1 1 100%;
  align-items: stretch;
  justify-content: space-between;
  box-shadow: 0 0 20px 6px #090b6f85;
}
@media (max-width: 980px) {
  .box-form {
    flex-flow: wrap;
    text-align: center;
    align-content: center;
    align-items: center;
  }
```

```
}
.box-form div {
  height: auto;
}
.box-form .left {
  color: #FFFFFF;
  background-size: cover;
  background-repeat: no-repeat;
  background-image:
url("https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSZ4GwRJ4Vq9TnGy7qaNzO1oN
BqTJz2PFrpGQ&usqp=CAU");
  overflow: hidden;
}
.box-form .left .overlay {
  padding: 30px;
  width: 100%;
  height: 100%;
  background: #5961f9ad;
  overflow: hidden;
  box-sizing: border-box;
}
.box-form .left .overlay h1 {
  font-size: 10vmax;
  line-height: 1;
  font-weight: 900;
  margin-top: 40px;
  margin-bottom: 20px;
}
.box-form .left .overlay span p {
  margin-top: 30px;
  font-weight: 900;
```

```
.box-form .left .overlay span a {
  background: #3b5998;
  color: #FFFFFF;
  margin-top: 10px;
  padding: 14px 50px;
  border-radius: 100px;
  display: inline-block;
  box-shadow: 0 3px 6px 1px #042d4657;
}
.box-form .left .overlay span a:last-child {
  background: #1dcaff;
  margin-left: 30px;
}
```

```
.box-form .right {
  padding: 40px;
  overflow: hidden;
}
@media (max-width: 980px) {
  .box-form .right {
    width: 100%;
  }
}
.box-form .right h5 {
  font-size: 6vmax;
  line-height: 0;
}
.box-form .right p {
  font-size: 14px;
  color: #B0B3B9;
}
.box-form .right .inputs {
  overflow: hidden;
}
.box-form .right input {
  width: 100%;
  padding: 10px;
  margin-top: 25px;
  font-size: 16px;
  border: none;
  outline: none;
  border-bottom: 2px solid #B0B3B9;
}
.box-form .right .remember-me--forget-password {
  display: flex;
```

```
  justify-content: space-between;
  align-items: center;
}
.box-form .right .remember-me--forget-password input {
  margin: 0;
  margin-right: 7px;
  width: auto;
}
.box-form .right button {
  float: right;
  color: #fff;
  font-size: 16px;
  padding: 12px 35px;
  border-radius: 50px;
```

```
  background: transparent;
  border: 3px solid #70F570;
  border-radius: 4px;
  color: transparent;
  left: -30px;
  transition: all 0.2s linear;
}
 label:hover::before {
  font-family: FontAwesome;
  content: ' \f00c';
  color: #fff;
  cursor: pointer;
  background: #70F570;
}
 label:hover::before .text-checkbox {
  background: #70F570;
}
 label span.text-checkbox {
  display: inline-block;
  height: auto;
  position: relative;
  cursor: pointer;
  transition: all 0.2s linear;
}
 label input[type="checkbox"] {
  display: none;
}
```

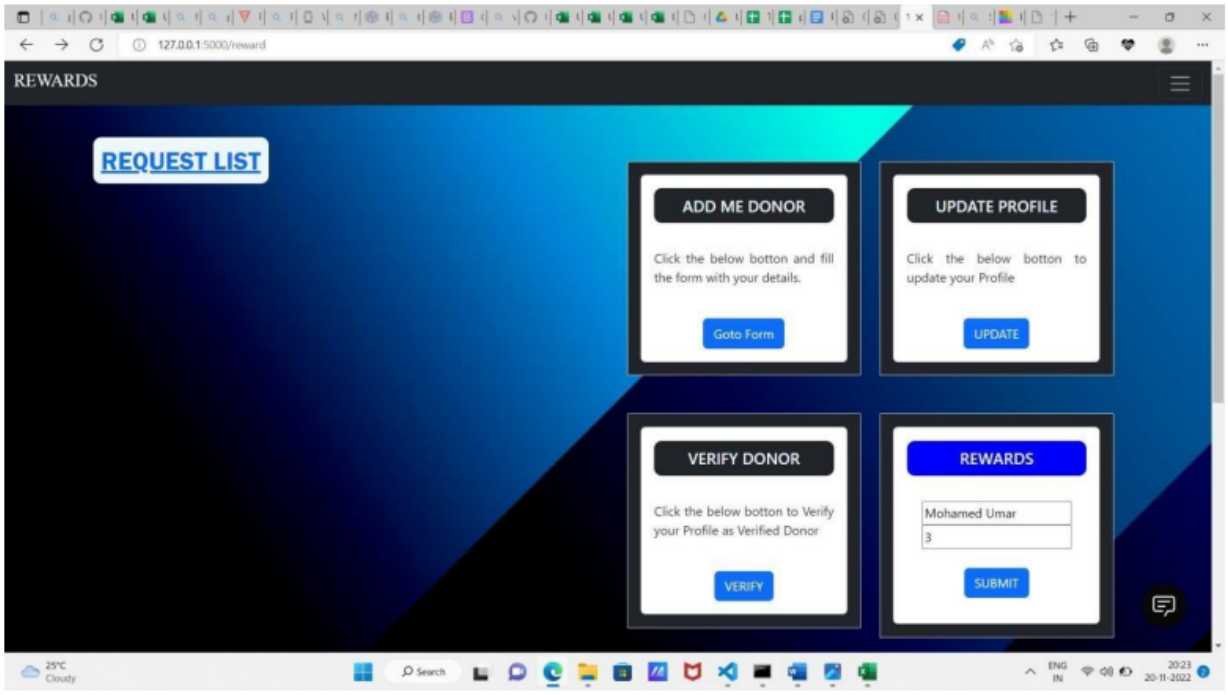
Welcome.html

```
<link rel="stylesheet" href="finalcss.css">
```

```
<div class="content">
  <div class="header">
     Welcome
  </div>
  <p>
     to plasma donor software

  </p></div>
```

RESULTS:



ADVANTAGES & DISADVANTAGES:

ADVANTAGES:

- Make an impact.
- Boost your mood.
- Maintain a healthy diet.
- Reduce cholesterol levels.
- Lower blood pressure. Giving
- Donating plasma may reduce your risk of developing cancer
- Most of us are familiar with the benefits and the process of blood

donation; however, few people understand the impact of plasma donation.

- Besides the benefits that come from helping others, there are many other positives to donating plasma that make it mutually beneficial for you and the patients you help.

DISADVANTAGES:

- screening donors for existing health conditions using new needles for each donation having professional staff on hand providing monitoring and refreshments to ensure a safe recovery
- Donating blood is safe, as long as the center follows the standard guidelines.
- The U.S. and many other countries have strict regulations to ensure safety. The FDA and American Association of Blood Banks (AABB) monitor blood banks for this purpose.

CONCLUSION:

Plasma is a liquid portion of blood; it is a mixture of water, proteins and salts. Antibodies are proteins made by the body in response to an infection. People fully rescued from COVID19 are encouraged to donate plasma, which can help to increase the lifespan of other patients because their plasma contains antigens which helps the affected person to recover faster. These immunoglobulin give your immune system a way to fight the virus when you are sick, so your plasma can be used to help others fight off illness. Individuals must fully resolve symptoms for at least 14 days prior are eligible to donate. Thus, this application will act as a connecting bridge between donor and recipient.

FUTURE SCOPE:

The scope clearly defines the boundaries of the proposed system. The

functional areas of this application that lies under the scope of the proposed system are the management of the availability of donors, hospitals, blood banks to the user or member at any time.

APPENDIX:

GITHUB: https://github.com/IBM-EPBL/IBM-Project-43171-1660713830.git
DEMO LINK:https://drive.google.com/file/d/1zuAsIXDYDd5dEnNFzv0-wUegwrWuyRoh/view?usp=drivesdk