PLASMA DONOR APPLICATION

TEAM ID -PNT2022TMID43028

IBM PROJECT REPORT

Submitted by

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in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

SRI SAI RANGANATHAN ENGINEERING COLLEGE
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NOVEMBER 2022

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ABSTRACT:

- Plasma is **the yellow liquid portion of blood**. About 55% of our blood is plasma, and the remaining 45% are red blood cells, white blood cells and platelets that are suspended in the plasma. Plasma is about 92% water.
- Although the government is carrying out Could vaccination campaigns on a large scale. the number of vaccines produced is not enough for all the population to get vaccinated at present. And with the corona positive cases rising every day. saving lives has become the prime matter of concern. As per the data provided by WHO more than 3 million people have died due to the corona virus . However, apart from vaccination, there is another scientific method by which a covid infected person can be treated and the death risk can be reduced. This plasma therapy is an experimental approach to treat corona positive patients and help them recover. This plasma therapy is considered to be safe & promising. A person who has recovered from covidcan donate his/her plasma to a person who is infected with the coronavirus.

1 . INTRODUCTION:

1.1 PROJECT OVERVIEW

Although the government is carrying out Could vaccination campaigns on a large scale. the number of vaccines produced is not enough for all the population to get vaccinated at present. And with the corona positive cases rising every day. saving lives has become the prime matter of concern. As per the data provided by WHO more than 3 million people have died due to the coronavirus (https://couid19 who int/). However, apart from vaccination, there is another scientific method by which a covid infected person can be treated and the death risk can be reduced. This plasma therapy is an experimental approach to treat corona positive patients and help them recover. This plasma therapy is considered to be safe & promising. A person who has recovered from Covid can donate his/her plasma to a person who is infected with the coronavirus.

This system proposed here aims at connecting the donors & the patients by an online application. By using this application. the users can either raise a request for plasma donation or requirement.

1.2PURPOSE

During the COVID 19 crisis, the requirement of plasma became a highpriority and the donor count has become low. Saving the donor information and helping the needy by notifying the current donors list, would be a helping hand. In regard to the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request.

2.LITERATURE SURVEY

2.1 EXISTING PROBLEM:

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 and was recovered, and which donor is eligible to donate plasma was a challenging task. As the plasma therapy was one of the ways to treat the infected patients getting the donor details played a major role.

The proposed method helps the users to check the availability of donors. A donor has to register to the website providing their details. The registered users can get the information about the donor count of each blood group. The database will have all the details such as name, email, phone number, infected status. Whenever a user requests for a particular blood group then the concerned blood group donors will receive the notification regarding the requirement. A Json code is written to store the information, to fetch the requested information in lambda.

2.2 REFERENCE

1) TITLE: Free Blood Donation Mobile Applications.

AUTHORS: Sofia Ouhbi · Jose Luis Fern ´ andez-Alem ´ an´ · Ambrosio Toval · Ali Idri · Jose Rivera Pozo

ABSTRACT:

Blood donation (BD) is a noble act and mobile applications (apps) can help increase

awareness about it. This paper analyzes and assesses the characteristics of free apps for BD as regards features and functionality. A search in Google Play, Apple Apps store, Blackberry App World and Windows Mobile App store was carried out to select 169 free BD apps from the 188 apps identified. The results presented in this paper show that the majority of the apps selected have been developed for the Android operating system. Moreover, most of the apps selected are available to help users search for donors. Few of the apps could not be installed and/or accessed. Of those that could be installed: half of them do not require any kind of authentication; a few of them are available in more than one language; half of them have a geographical restriction; around 60 % of them do not notify the user of BD events and requests; one, which is available for Android and iOS, can connect with a laboratory; around 45 % of them allow users to share information via social networks, and the majority of them do not provide BD recommendations. These results are used as a basis to provide app developers with certain recommendations. There is a need for better BD apps with more features in order to increase the number of volunteer donors.

2)TITLE: Mobile Blood Donation Application

AUTHORS: Hassan, Otman Mohamed M.

ABSTRACT :

The importance of blood in human existence and wellbeing cannot be underrated. Blood has been regarded as the basis of human living, thus if it is not in short of, human health might be at risk. Thus blood banking and blood donation in any medical operation for saving human's life must be readily available. In this study, the researcher proposed the development of a WAP-based blood application system that enables voluntary blood donors to apply to donate blood anywhere and at anytime, with the aim of solving the problem experience in the traditional blood donation application.

2.3 Problem Statement Definition :

1. People who need blood are increasing day by day. People who have diseases like anemia or people who have gotten into accidents and run out of blood need constant supply of blood to sustain their life and there is not enough blood available for them.
2. It is not that people do not want to donate blood, but because they have no idea where they can donate. It is important for the people who are excited to donate, but yet are very busy, to be sure where and when they can donate ,and therefore We are designing a system which contains all the information regarding blood donation camps ongoing in a particular area so that people who want to donate blood will get information regarding these camps.

1. Our System is a mobile application which aims to serve as a communication tool between Blood Donation camp Organizers and blood donors . To become a member of the system, donors need to create their profile by providing the information like name, blood group, email address, password, and exact location from “Google Map”. In order to find out the exact location of a donor, Google Map is integrated with this application.
2. The mobile application always keeps updating the location of a donor. As a result, the system can automatically keep showing the nearby Blood donation Camps to the registered donor wherever they go, and donors can easily get the idea of nearby blood donation camps. Also, users can get information regarding the type of blood which is available and information of past as well as future events

3.IDEATION & PROPOSEDSOLUTION

3.1 EMPATHY MAP CANVAS:

THINK AND FEEL:

1. Need to make a difference
2.Am I eligible for plasma donation
3.To many acronyms
4.Concerts are her favourite

HEAR :

1. Be the change you see in the world
2.Most friends are not sociable
3.Does not have too many friends
4. The fee will change soon

SAY AND DO :

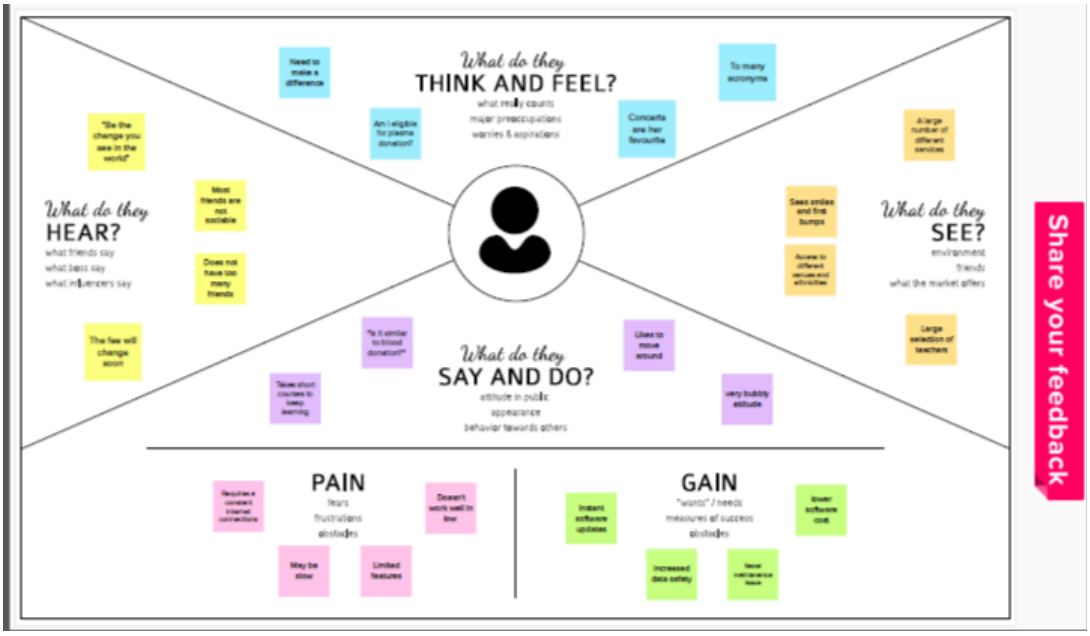
1.Is the similar to blood donation?
2.Takes short courses to keep learning to move around
3.Very bubbly attitude

SEE :

1.A large number of different services
2.Sees smiles and first bumps
3.Access to different venues and ethnicities
4.Large selection of teachers

PAIN :

1.Requires a constant internet connections
2.May be slow
3.Limited features
4.Does not work well in low



GAIN :

1.Instant software updates
2.Increased data safety
3.Fewer maintenance issue
4.Lower software cost

3.2 IDEATION & BRAINSTORMING:

IDEAS 1 :

1. As an initiative taken by the government which motivates student for providing support for the pandemic
2. Collecting plasma is a big business and its a valuable commodity in the medical community
3. Plasma donations help create therapies that treat rare and life threatening diseases
4. This plasma therapy is an experimental approach to treat corona-positive patients and help them recover

5. This system comprises of admin and user where both can request for a plasma
6. Various features of the application are described and their needs of use are analyzed.

IDEAS 2 :

7. Atleast 18 years old
8. Weigh atleast 50 kg
9. Must pass a medical examination
10. Complete medical history screening
11. Including hepatitis and HIV
12. Diet including 50 to 80 g of daily protein

IDEAS 3 :

13. Dehydrationcontains lot of water
14. Dizziness fainting and lightheadness
15. Fatigue- low levels of nutrients and salts
16. Bruising and discomfort
17. Infectionlooks red and swollen with pain
18. Citrate reaction-very serious but rare side effect
19. Light Chills,shivering headed Ness

IDEAS 4 :

1. Electrolytes are minerals that help to balance the amount of water, nutrients and pH level inside the body.
2. Plasma donations ensure that these individuals can receive a plasma transfusion to supplement their body’s clotting ability and stop excessive bleeding from occurring.

3. 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
4. Nearly 10,000 units of plasma are needed every day in the United States, and plasma transfusions are often lifesaving.
5. Have internal or external bleeding due to an injury
6. Plasma are undergoing surgery, such as cardiovascular or orthopedic surgery
7. Are undergoing a transplan

GROUP IDEAS :

1. This plasma therapy is considered to be safe& promising
2. Test nonreactive
3. Plasma donor
4. Finding blood donor is a challenging issue in almost every country.
5. Health issues

SIMILAR IDEAS :

1. This plasma therapy is considered to be safe& promising
2. This project provides quick access to donor for immediate requirement of blood.
3. Have an inherited blood disorder
4. Side effects
5. Test nonreactive

3.3 PROPOSED SOLUTION:

The basic solution is to create a centralized system to keep a track on the upcoming as well as past Blood Donation Events. The recommendation solution is as follows:

1. Donors will save the donor card digitally

2.The Programmer Officer will be able to predict the feasible date in order to get the maximum response.

3.An Emergency button is introduced in order to guarantee the safety of Donors.

4.The call will be dialed automatically to the ambulance once the donor meets an accident.

5.A centralized system is designed in order to keep a record of the past and upcoming events.

3.4 PROBLEM SOLUTION FIT :

1. plsma donors must be 18 years of age weight at least 110 pounds(50kg)
2. Constraints and challenges in convaslencoent plasma collection amidst the covid 19 pandemic strategies and recommendations to overcome
3. Drink an extra 16 unces of dear non-alcoholic fluids(preferable water) before your donation. This can help prevent dizziness, fainting, light head edness and fatigue, some of the most common side effects associated with plasma donation
4. Greets donors,answers phone call, and assists with donors beginning the donation process.
5. Certain chronic illnesses, such hepatitis and HIV automatically disqualify someone from donating other active conditions, such as tuberculosis ,must be treated first for certain amount of time before an individual can donate blood or plasma
6. Plasma donations are used to make products help immune defiencie
7. people are generous with their blood .people feel good about giving their blood. Treated well and solicited regularly they will return to give again.

4.REQUIREMENT ANALYSIS :

4.1 FUNCTIONAL REQUIREMENT :

FR No.	**Functional Requirement (Epic)**	**Sub Requirement (Story / Sub-Task)**
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login Using the credential we have used during registration
FR-4	User Permission	User must given permission access to the search engine. So the intelligent system can detect plasma donors
FR-5	Using the intelligent system	User will use the intelligent system to collect the donor and save their information

4.2 NON- FUNCTIONAL REQUIREMENTS :

FR No	Non-Functional Requirement	Description
NFR-1	Usability	To enhance and improve donors' blood donation digital experience, by understanding the problem space with regards to a decrease in repeat donors. Improving existing features and proposing new features in the existing app which contributes to the overall business goal of increasing repeat donors

NFR-2	Security	The Online Blood Donation Management System, the purpose of which is to act as a bridge between a person who needs blood, a patient, and a blood donor. The design of an automatic blood system has become an integral part for saving the human lives, who need the blood under different situations. Since, there are various drawbacks of the preexisting system like privacy issues for the donors, which are getting reflected directly on the interface. Thus, we have designed a robust system that will create a connection between different hospitals, NGOs, and blood banks to help the patient in any difficult situation. Thus, HIPPA model provides a backbone for security breaches The interface designed will be easy-to-use and easy to access and will be a fast, efficient, and reliable way to get lifesaving blood, totally free of charge.

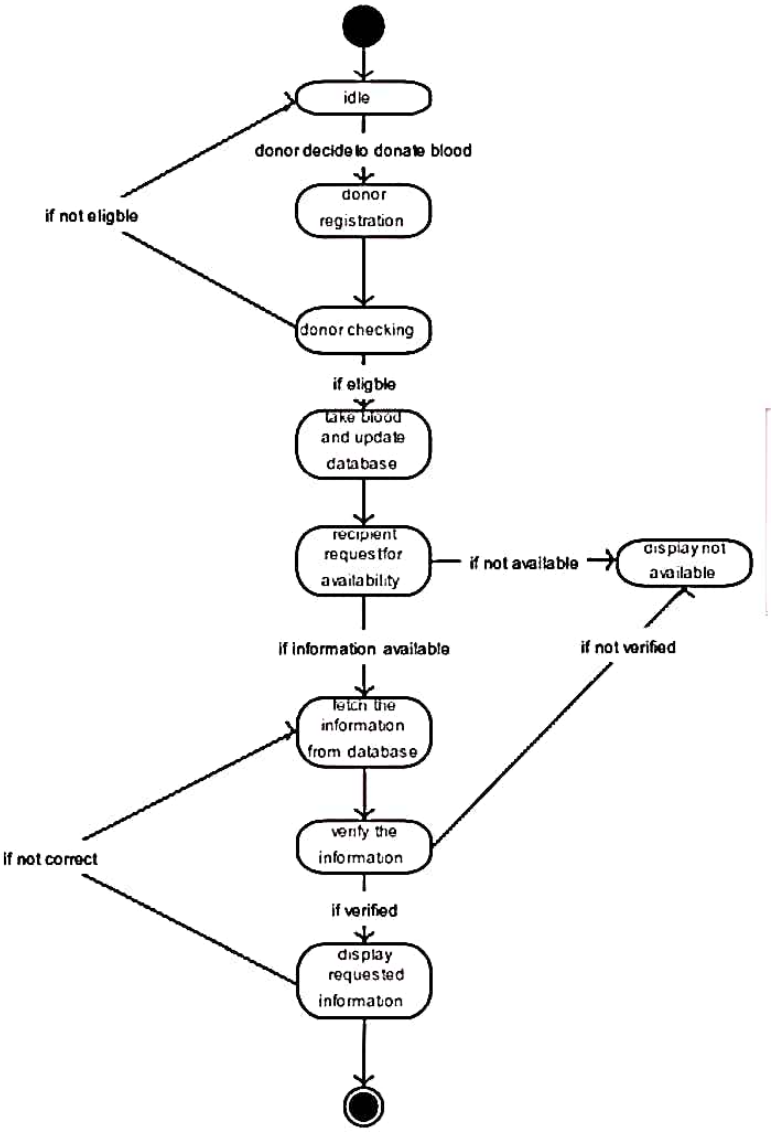
NFR-3	Reliability	Plasma Life is a Plasma & Blood Donation App ,which puts the power to save a lives in the palm of your hand. The main purpose of Plasma Life App is to create & manage a platform for all donors of the world & remove the recent crisis
NFR-4	Performance	At Software Things we focus on building real engagement with the help of apps. We want our products to be useful for users, and this was also the case with the 'Bliscy Krewni' (a wordplay related to blood) application. It was especially important considering the major goal the app was aimed to achieve – increasing the number of blood donations. We knew that donating blood saves lives, therefore we wanted to give users what they need to donate blood.

NFR-5	Availability	• Get a real-time view of current appointment availability • Book and manage appointments anytime, 24/7 • Find where to donate close to your current location • Receive messages when we need your help • Find out more about your blood type • See your donation milestones • Check guidelines about medicines, health conditions and travel

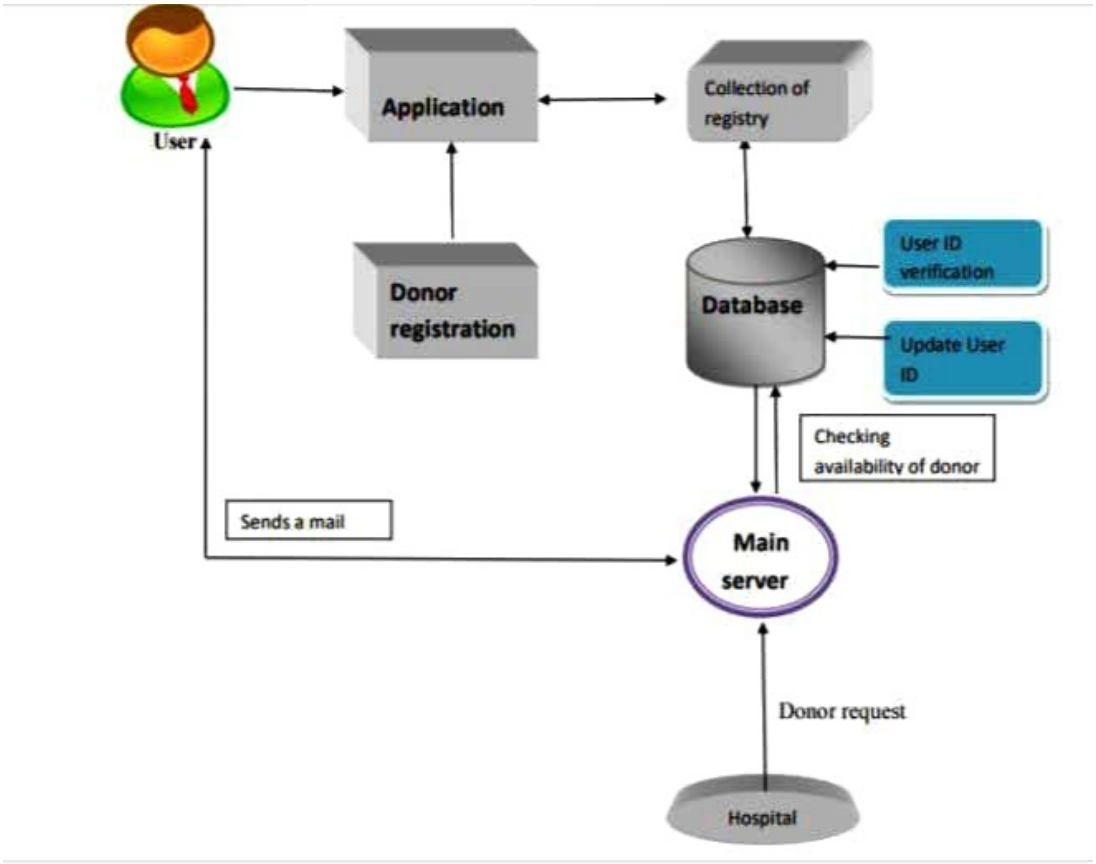
NFR-6	Scalability	Plasma types can be distinguished according to the method of collection (recovered or apheresis plasma), the donor remuneration status (paid, compensated or unpaid donors), and according to whether the plasma is polyvalent or hyperimmune regarding antibody content. In the present study, we compared the plasma protein compositions of recovered plasma and source plasma in fractionation pools, each pool being made with donations collected within a single country

5. PROJECT DESIGN :

5.1 DATA FLOW DIAGRAM :



5.2 SOLUTION & TECHNICAL ARCHITECTURE:



5.3 USER STORIES :

6.PROJECT PLANNING &SCHEDULING

6.1 SPRINT PLANNING &ESTIMATION:

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	20	6 Days	23 Oct 2022	28 Oct 2022	20	28 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.2 SPRINT DELIVERY SCHEDULE:

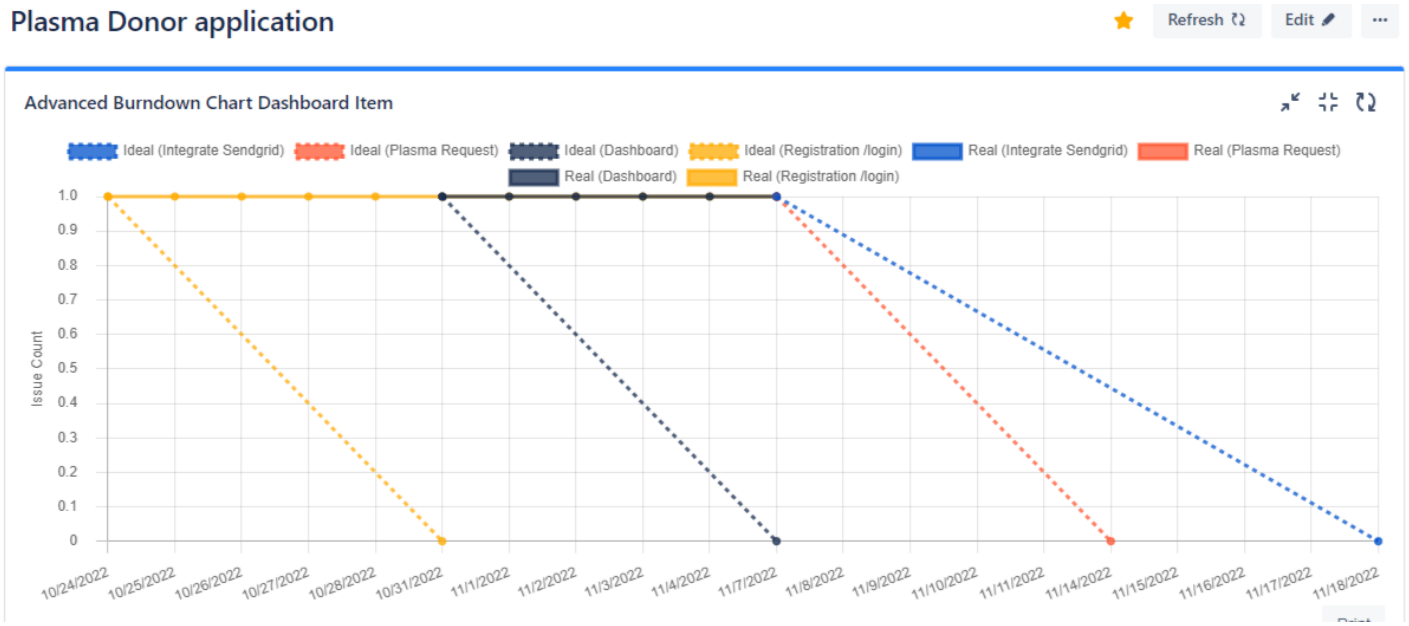
Sprint	**Fuctional Requirement(epic)**	**User story number**	**User story/task**	**Story points**	**Priority**	**Team member**
Sprint-1	Registration	USN-1	Push the registration data into the database	1	High	Brindha Vijayalakshmi
Sprint-1	Login	USN-2	Fetch the data upon login	2	High	Brindha Praveen kanth

Sprint-2	Dashboard	USN-3	Display the stats of different blood groups	1	Low	Karan Praveen kanth
Sprint-3	Plasma request	USN-4	Upon request take the required blood group and return the details	2	Medium	Vijayalakshmi Praveen kanth
Sprint-4	Integrating sendgrid and send emails using sendgrid	USN-5	The final delivered will be delivered	2	High	Karan Vijayalakshmi

6.3 REPORT FROM JIRA:

Road Map:

Burndown:


Plasma Donor application
Refresh
Edit
Advanced Burndown Chart Dashboard Item
Ideal (Integrate Sendgrid)
Ideal (Plasma Request)
Ideal (Dashboard)
Ideal (Registration /login)
Real (Integrate Sendgrid)
Real (Plasma Request)
Real (Dashboard)
Real (Registration /login)
Issue Count
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10/24/2022
10/25/2022
10/26/2022
10/27/2022
10/28/2022
10/31/2022
11/1/2022
11/2/2022
11/3/2022
11/4/2022
11/7/2022
11/8/2022
11/9/2022
11/10/2022
11/11/2022
11/14/2022
11/15/2022
11/16/2022
11/17/2022
11/18/2022

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

7.1 FEATURE 1:

PROGRAM 1:

HTML:

```
 <div class="login-wrap">
<div class="login-html">
<link rel="stylesheet"href="st.css">
<input id="tab-1" type="radio" name="tab" class="sign-in" checked><label for="tab-1" class="tab">Sign In</label>
<input id="tab-2" type="radio" name="tab" class="sign-up"><label for="tab-2" class="tab">Sign Up</label>
<div class="login-form">
<div class="sign-in-htm">
<div class="group">
<label for="user" class="label">Username</label>
<input id="user" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input" data-type="password">
</div>
<div class="group">
```

```
<input id="check" type="checkbox" class="check" checked>
<label for="check"><span class="icon"></span> Keep me Signed in</label>
</div>
<div class="group">
<input type="submit" class="button" value="Sign In">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<a href="#forgot">Forgot Password?</a>
</div>
</div>
<div class="sign-up-htm">
<div class="group">
<label for="user" class="label">Username</label>
<input id="user" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Password</label>
<input id="pass" type="password" class="input" data-type="password">
</div>
<div class="group">
<label for="pass" class="label">Repeat Password</label>
<input id="pass" type="password" class="input" data-type="password">
</div>
<div class="group">
```

```
<label for="pass" class="label">Email Address</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Bloodgroup</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">State</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">city</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Gender</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Mobile number</label>
<input id="pass" type="text" class="input">
</div>
<div class="group">
<label for="pass" class="label">Last time donated</label>
```

```
<input id="pass" type="text" class="input">
</div>
<div class="checkbox-text">
<div class="checkbox-content">
<input type="checkbox" id="termCon">
<label for="termCon" class="text">I accepted all terms and conditions</label>
</div>
</div>
<div class="group">
<input type="submit" class="button" value="Sign Up">
</div>
<div class="hr"></div>
<div class="foot-lnk">
<label for="tab-1">Already Member?</a>
</div>
</div>
</div>
</div>
</div>
```

CSS:

```
body{
margin:0;
color:#4f69ff;
background:#c8c8c8;
```

```
font:600 16px/18px 'Open Sans',sans-serif;
}
*,:after,:before{box-sizing:border-box}
.clearfix:after,.clearfix:before{content:";display:table}
.clearfix:after{clear:both;display:block}
a{color:inherit;text-decoration:none}
.login-wrap{
width:100%;
margin:auto;
max-width:525px;
min-height:1000px;
position:relative;
background:url(https://c1.wallpaperflare.com/preview/74/499/640/plasma-ball-electric-static-electricity-dark.jpg) no-repeat center;
background-size: cover;
box-shadow:0 12px 15px 0 rgba(250, 248, 248, 0.24),0 17px 50px 0 rgba(230, 224, 224, 0.19);
}
.login-html{
width:100%;
height:100%;
position:absolute;
padding:90px 70px 50px 70px;
background:rgba(40,57,101,.9);
}
.login-html .sign-in-htm,
```

```
.login-html .sign-up-htm{
top:0;
left:0;
right:0;
bottom:0;
position:absolute;
transform:rotateY(180deg);
backface-visibility:hidden;
transition:all .4s linear;
}
.login-html .sign-in,
.login-html .sign-up,
.login-form .group .check{
display:none;
}
.login-html .tab,
.login-form .group .label,
.login-form .group .button{
text-transform:uppercase;
}
.login-html .tab{
font-size:22px;
margin-right:15px;
padding-bottom:5px;
margin:0 15px 10px 0;
```

```
display:inline-block;
border-bottom:2px solid transparent;
}
.login-html .sign-in:checked + .tab,
.login-html .sign-up:checked + .tab{
color:#fff;
border-color:#1161ee;
}
.login-form{
min-height:345px;
position:relative;
perspective:1000px;
transform-style:preserve-3d;
}
.login-form .group{
margin-bottom:15px;
}
.login-form .group .label,
.login-form .group .input,
.login-form .group .button{
width:100%;
color:#fff;
display:block;
}
.login-form .group .input,
```

```
.login-form .group .button{
border:none;
padding:15px 20px;
border-radius:25px;
background:rgba(255,255,255,.1);
}
.login-form .group input[data-type="password"]{
text-emphasis-color:circle;
-webkit-text-security:circle;
}
.login-form .group .label{
color:#aaa;
font-size:12px;
}
.login-form .group .button{
background:#1161ee;
}
.login-form .group label .icon{
width:15px;
height:15px;
border-radius:2px;
position:relative;
display:inline-block;
background:rgba(255,255,255,.1);
}
```

```
.login-form.group label .icon:before,
.login-form.group label .icon:after{
content:'';
width:10px;
height:2px;
background:#fff;
position:absolute;
transition:all .2s ease-in-out 0s;
}
.login-form .group label .icon:before{
left:3px;
width:5px;
bottom:6px;
transform:scale(0) rotate(0);
}
.login-form .group label .icon:after{
top:6px;
right:0;
transform:scale(0) rotate(0);
}
.login-form .group .check:checked + label{
color:#fff;
}
.login-form .group .check:checked + label .icon{
background:#1161ee;
```

```
}
.login-form .group .check:checked + label .icon:before{
transform:scale(1) rotate(45deg);
}
.login-form .group .check:checked + label .icon:after{
transform:scale(1) rotate(-45deg);
}
.login-html .sign-in:checked + .tab + .sign-up + .tab + .login-form .sign-in-htm{
transform:rotate(0);
}
.login-html .sign-up:checked + .tab + .login-form .sign-up-htm{
transform:rotate(0);
}
}
.login-form .group .check:checked + label .icon{
background:#1161ee;
}
.login-form .group .check:checked + label .icon:before{
transform:scale(1) rotate(45deg);
}
.login-form .group .check:checked + label .icon:after{
transform:scale(1) rotate(-45deg);
}
.login-html .sign-in:checked + .tab + .sign-up + .tab + .login-form .sign-in-htm{
transform:rotate(0);
```

```
}
.login-html .sign-up:checked + .tab + .login-form .sign-up-htm{
transform:rotate(0);
}
```

PROGRAM 2:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<title>Admin Dashboard | By Code Info</title>
<link rel="stylesheet" href="homepage .css" />
<!-- Font Awesome Cdn Link -->
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.2.0/css/all.min.css" />
</head>
<body>
<header class="header">
<div class="logo">
<a href="#">PLASMA DONOR APPLICATION</a>
<div class="search_box">
<input type="text" placeholder="Search">
<i class="fa-sharp fa-solid fa-magnifying-glass"></i>
</div>
</div>
```

```
<div class="header-icons">
<i class="fas fa-bell"></i>
<div class="account">
<h4>Vijayalakshmi</h4>
</div>
</div>
</header>
<div class="container">
<nav>
<div class="side_navbar">
<span>Main Menu</span>
<a href="#" class="active">Dashboard</a>
<a href="#">Profile</a>
<a href="#">Blood bank</a>
<a href="#">Donors</a>
<a href="#">Statistics</a>
<a href="#">Settings</a>
<a href="#">Log out</a>
<a href="#">share app</a>
<div class="links">
<span>PAYMENTS</span>
<a href="#">google pay</a>
<a href="#">phone Pay</a>
<a href="#">Paytm</a>
</div>
```

```
</div>
</nav>
<div class="main-body">
<h2>Dashboard</h2>
<div class="promo_card">
<h1>PLASMA DONOR APPLICATION</h1>
<span>Second Chance To live Life</span>
</div>
<div class="history_lists">
<div class="list1">
<div class="row">
<h4>History</h4>
<a href="S.NO">See all</a>
</div>
<table>
<thead>
<tr>
<th>S.NO</th>
<th>NAME</th>
<th>BLOOD GROUP</th>
<th>AGE</th>
<th>LAST DONATE</th>
</tr>
</thead>
<tbody>
```

<tr>
<td>1</td>
<td>Arun</td>
<td>a+</td>
<td>21</td>
<td>21-2-2022</td>
</tr>
<tr>
<td>2</td>
<td>Babu</td>
<td>AB+</td>
<td>24</td>
<td>23-06-2022</td>
</tr>
<tr>
<td>3</td>
<td>Chandhuru</td>
<td>O+</td>
<td>23</td>
<td>12-08-2022</td>
</tr>
<tr>
<td>4</td>
<td>Dhinagaran</td>
<td>O-</td>

<td>24</td>

<td>05-05-2022</td>

</tr>

<tr>

<td>5</td>

<td>Praveen</td>

<td>B+</td>

<td>23</td>

<td>22-07-2022</td>

</tr>

<tr>

<td>6</td>

<td>Siva</td>

<td>B+</td>

<td>24</td>

<td>21-09-2022</td>

</tr>

<tr>

<td>7</td>

<td>Ravi</td>

<td>AB-</td>

<td>23</td>

<td>01-01-2022</td>

</tr>

</tbody>

```
</table>
</div>
<div class="sidebar">
<h4>BLOOD GROUPS</h4>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>A+</h5>
<h6>12,ooo members</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>A-</h5>
<h6>5,000 members</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>AB+</h5>
<h6>3,000 members</h6>
```

```
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>AB-</h5>
<h6>500 members</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>B+</h5>
<h6>15,000 member</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>B-</h5>
<h6>1,000 member</h6>
<span><i class="fas BLOOD"></i></span>
```

```
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>O+</h5>
<h6>20,000 member</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
<div class="balance">
<i class="fas BLOOD icon"></i>
<div class="info">
<h5>O-</h5>
<h6>2,000 member</h6>
<span><i class="fas BLOOD"></i></span>
</div>
</div>
</div>
</div>
</body>
</html>
```

CSS

```
/* import google fonts */
@import
```

```
url("https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap");
*{
margin: 0;
padding: 0;
border: none;
outline: none;
text-decoration: none;
box-sizing: border-box;
font-family: "Poppins", sans-serif;
}
body{
background-image:url(https://images.hdqwalls.com/download/abstract-blur-4k-5k-qm-
1920x1080.jpg);
background-size: cover;
}
.header{
display: flex;
align-items:center;
justify-content: space-between;
height: 60px;
padding: 20px;
background: #fff;
}
.logo{
display: flex;
```

```
align-items:right;
}
.logo a{
color: rgb(0, 0, 0);
font-size: 18px;
font-weight: 600;
margin: 2rem 8rem 2rem 2rem;
}
.search_box{
display: flex;
align-items: center;
}
.search_box input{
padding: 9px;
width: 250px;
background: rgb(247, 244, 244);
border-top-left-radius: 5px;
border-bottom-left-radius: 5px;
}
.search_box i{
padding: 0.66rem;
cursor: pointer;
color: #fff;
background: rgb(245, 4, 4);
border-top-right-radius: 5px;
```

```
border-bottom-right-radius: 5px;
}
.header-icons{
display:flex;
align-items:right;
}
.header-icons i{
margin-right: 2rem;
cursor: pointer;
}
.header-icons .account{
width: 130px;
display: flex;
align-items: right;
justify-content: space-between;
}
.header-icons .account img{
width: 35px;
height: 35px;
cursor: pointer;
border-radius: 50%;
}
.container{
margin-top: 10px;
display: flex;
```

```
justify-content: space-between;
}
/* Side menubar section */
nav{
background: rgba(255, 255, 255, 0.541);
}
.side_navbar{
padding: 1px;
display: flex;
flex-direction: column;
}
.side_navbar span{
color: rgb(255, 255, 255);
margin: 1rem 3rem;
font-size: 12px;
}
.side_navbar a{
width: 100%;
padding: 0.8rem 3rem;
font-weight: 500;
font-size: 15px;
color: rgb(250,250,250);
}
.links{
margin-top: 5rem;
```

```
display: flex;
flex-direction: column;
}
.links a{
font-size: 13px;
}
.side_navbar a:hover{
background: rgb(235, 235, 235);
}
.side_navbar .active{
border-left: 2px solid rgb(255, 255, 255);
}
/* Main Body Section */
.main-body{
width: 70%;
padding: 1rem;
}
.promo_card{
width: 100%;
color: #fff;
margin-top: 10px;
border-radius: 6px;
width:70%;
padding: 0.5rem 1rem 1rem 3rem;
background: rgb(243, 4, 4);
```

```
align-items: center;
}
.promo_card h1, .promo_card span, button{
margin: 10px;
align-items:right;
}
.promo_card button{
display: block;
padding: 6px 12px;
border-radius: 5px;
cursor: pointer;
}
.history_lists{
display: flex;
align-items:right;
justify-content: space-between;
}
.row{
display: flex;
justify-content: space-between;
align-items:right;
margin: 1rem 0;
}
table{
background: #fff;
```

```
padding: 1rem;
text-align: left;
border-radius: 10px;
}
table td, th{
padding: 0.2rem 0.8rem;
}
table th{
font-size: 15px;
}
table td{
font-size: 13px;
color: rgb (100, 100, 100);
}
/* Sidebar Section */
.sidebar{
align-items: baseline;
width:20%;
border: 10%;
height: 10%;
padding: 2rem 1rem;
background: #fff;
}
.sidebar h4{
margin-bottom: 1.5rem;
```

```
}
.sidebar .balance{
display: flex;
align-items: center;
margin-bottom: 1rem;
}
.balance .icon{
color: rgb(19, 1, 1);
font-size: 20px;
border-radius: 6px;
margin-right: 1rem;
padding: 1rem;
background: rgb(245, 6, 6);
}
.balance .info h5{
font-size: 16px;
}
.balance.info h6{
font-style: 12px;
font-family: 'Franklin Gothic Medium', 'Arial Narrow', Arial, sans-serif;
}
.balance .info span{
font-size: 14px;
color: rgb(100, 100, 100);
}
```

```
.balance .info i{
margin-right: 2px;
}
```

7.2FEATURE 2:

PROGRAM 1:

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Apply</title>
<script>
window.watsonAssistantChatOptions = {
integrationID: "cb7720be-031f-4117-a70f-eb9893a547a4", // The ID of this integration.
region: "us-south", // The region your integration is hosted in.
serviceInstanceID: "555443a6-fe3a-4c47-b77f-86cd464fd9e9", // The ID of your service instance.
onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
const t=document.createElement('script');
t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
});
</script>
<style>
body{
```

```
background: rgb(255, 255, 255);
height: 553px;
text-align: center;
font-family: cursive;
}
h3{
color: rgb(6, 241, 238);
font-size: 40px;
}
input{
border: 2px;
border-style: groove;
border-radius: 7px;
padding-top: 8px;
padding-left: 8px;
padding-bottom: 8px;
padding-right: 8px;
border-color: rgb(0, 255, 251);
height: 25px;
width:400px;
}
button{
border: 2px;
border-radius: 10px;
padding-top: 8px;
```

```
padding-left: 8px;
padding-bottom: 8px;
padding-right: 8px;
border-style: groove;
width: 90px;
opacity: 90%;
border-color: rgb(0, 247, 255);
cursor:pointer;
}
.right{
width:50%;
float: right;
}
.left{
width: 50%;
float: left;
}
</style>
</head>
<body>
<h3>PLASMA REQUEST</h3>
<form method="post">
<div class="right">
<input type="text" name="blood_group" placeholder="Blood Group" required /><br><br>
<input type="number" name="aadhar" placeholder="Aadhar" required /><br><br>
```

```
<input type="text" name="state" placeholder="State" required /><br><br>
<input type="text" name="city" placeholder="City" required /><br><br>
<input type="password" name="password" placeholder="Password" required /><br><br>
</div>
<div class="left">
<input type="text" name="name" placeholder="Name" required /><br><br>
<input type="email" name="email" placeholder="Email" required /><br><br>
<input type="number" name="mobile" placeholder="Mobile" required /><br><br>
<input type="number" name="age" placeholder="Age" required /><br><br>
<input type="text" name="gender" placeholder="Gender" required /><br><br>
</div>
<button type="submit">Apply</button>
</form>
<p style="color: rgb(27, 161, 27);">{{success}}</p>
<p style="color: rgb(214, 25, 25)">{{error}}</p>
<a href="/logout">logout</a>
</body>
</html>
```

8. TESTING

8.1 TEST CASE

Test cases	Feature type	Test scenario	Pre-requisite	Execute	Working	Results
Login	Functional	Verify user details for opening homepage	1.Python 2.HTML 3.CSS	Enter the user ID, password for opening homepage	Login should display on the screen	Pass
Homepage	Functional	Verify the user details for opening home page for the user can access the application	Integrate with flask	Enter the donor details(name, age,mail id,blood group,genter, etc…)	Homepage should display on the screen	Pass

8.2 USER ACCEPTANCE TESTING:

Defect Analysis

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

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	5	5	24
Duplicate	2	0	2	0	4
External	5	3	2	1	11
Fixed	15	5	5	10	35
Not Reproduced	0	0	0	0	0
Skipped	0	0	1	1	2
Won't Fix	0	5	2	1	8
Totals	32	17	17	18	84

TEST CASE ANALYSIS

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

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	10	0	0	10
Client Application	40	0	0	40
Security	5	0	0	2

9.RESULTS:

Test case ID	Test Scenario	Pre-Requisite	Steps To Eecute	Expected result	Status	Exceted by
Login	Enter the user crentials	HTML	Enter plasma donr application(blood group,name, age,email id,city,pho ne number,gen der)	Enter the user crentials	Pass	S.Vijayalakshmi M.Karan
Home page	Enter donor details	Integrate with flask	Enter plasma donr application(blood group,name, age,email id,city,pho ne number,gen der)	In homepage should display to enter a donor detail	Pass	M.Brindha M.Praveenkanth

10.ADVANTAGES AND DISADVANTAGES :

ADVANTAGES :

- Earn up to $4,000 per year
- Make an impact
- Boost your mood
- Maintain a healthy diet
- Reduce chloesterol levels
- Lower blood pressure

DISADVANTAGES :

- Dehydration
- Dizziness
- Fatigue
- Brusing and discomfort
- Infection
- Citrate reaction
- Arterial puncture
- Tips

11.CONCLUSION

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

12. FUTURE SCOPE

- Certain they are healthy,suitable to give plasma and will not be harmed by plasma donation
- Avoid collecting plasma from individulas may be unsuitable due to the risk of TTI or other health factors that may harm patients

13.APPENDIX

SOURCE CODE

```
from flask import Flask, render_template

app = Flask(__name__,template_folder="")

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

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

GitHub&Project Document Link

GitHub Link : https://github.com/IBM-EPBL/IBM-Project-47558-1660800180

DemoLink:https://drive.google.com/file/d/1gf5CdCsriL2DWG2R8ma5ZRWxgTHrVuat/view?usp=drivesdk