

PROJECT REPORT FOR PLASMA DONOR APPLICATION

1. INTRODUCTION

1.1 Project Overview

Covid-19 is currently spreading as a deadly disease and till today no medicine has been found for this disease. Alternatively, now a day's plasma transplant surgery is also being performed rapidly. At this present time plasma banks are in short supply. Not only that, but the number of plasma donors is low too. And some people do not know what plasma donation is and where to donate plasma.

As we all know, the traditional methods of finding plasma, one has to find out for oneself by looking at hospital records and contacting donors have been recovered, sometimes may not be available at home and move to other places. In this type of scenario, the health of those who are sick becomes disastrous. Therefore, it is not considered a rapid process to find plasma. So, We have set up a system to alleviate this situation and help needy people to identify plasma donors and plasma banks.

1.2 Purpose

The main purpose of the proposed system is to provide the platform for the plasma donors and the recipient and it acts as a connecting bridge between the plasma donors and the needy. The donor who wants to donate plasma can simply upload their details in the website and can donate the plasma to the plasma bank. If a person in the need of plasma can easily able to make a plasma request for the required blood type just fill in up the request form. The donor who are willing to donate can able to accept the plasma request and make an appointment for donation once the donor eligibility has been verified. The proposed solution makes the plasma hunting process very simple just by connecting the donor and the needy around us.

2. LITERATURE SURVEY

2.1 Existing problem

One has to find out the plasma donor by looking at hospital records and contact the donors through mobile phones. The people who donate plasma are not checked properly. The donor with any possible medical problem can cause danger to recipient. One should always verify the donor medical records before the donating plasma. In most of the situation, the donors don't know where to donate and how to donate plasma.

2.2 References

- In “A study on plasma management system” by A. Clemen Teena, k. Sankar, S. Kannan[7]. They made a system through which they can manage information about donors and patients. So that whenever blood is needed they can use this information as blood bank authorized officers have access to this information.
- 2) In “Android plasma” by professor Snigdha, Pratiksha Lokhande, Siddhi Kesar and Pranita More[6] . came up with an android app in which updates information about donors time to time and also it shows all the blood banks near to user location. In this admin controls and have all information of the app.
- 3) In “MBB: A life saving application” by Ramakant Gawande; Narendra Gupta; Nikhil Thengadi [4]. They come up with a system to link all donors and help in controlling blood transfusion process. Their system will also maintain database which hold data of donors and blood according to their city and further by their locality.
- 4) In “Short message service (SMS) based plasma” by G. Muddu Krishna & S. Nagaraju(2016)[1]. They proposed a system in which services of blood bank will be accessed via SMS. If someone needed blood then they have to request for blood via SMS and then packet count module of their system will check for availability of blood and response will be given by data processing module.
- 5) In “Automated online plasma database” by Muhammad Arif; S. Sreevas; K. Nafseer; R. Rahul(2012)[2] . They come up with direct call routing technique by using asterisk. In this every blood bank consist of a database and that will be managed by central server. When someone in need of blood call on their tollfree no. they will directly get connected to a donor and after receiving blood from that donor name of that donor will be kept on hold for 8 weeks.

2.3 Problem Statement Definition

In general usage, plasma donation is often confused with blood donation, and people are unaware of the uses of plasma. In this present **covid** situation, till today no medicine has been found for this disease. Alternatively, nowadays Plasma transplant survey is also being performed rapidly. At this present time plasma banks are in short supply and plasma donors are low. And some people do not know where and how to donate. To overcome this we have setup a system to alleviate this situation and help needy people to identify plasma donors and plasma banks. The main objective is to develop an application to build a network of people who can help each other. This application is developed to simply explore for plasma in near areas for emergency situations.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



https://github.com/IBM-EPBL/IBM-Project-4521-1658733854/blob/main/Pre-Development/Ideation%20Phase/Brainstorm%20%26%20Idea%20Prioritization_2022-10-31_14-49-11.pdf

3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The world is suffering from the COVID 19 crisis. But still no vaccine has been found. But there are other way to reduce mortality or to help people affected by COVID19 by donating plasma from recovered patients. But at present time plasma banks are in short supply. Not only that, but the number of plasma donors are rare. And some people were unaware about donating plasma
2.	Idea / Solution description	The solution for this problem is to create cloud based web application which connect the plasma donor and recipient
3.	Novelty / Uniqueness	The plasma donor and requester have to provide their details. when the recipient request for particular blood group, the request will be notified to the donors with same blood group.
4.	Social Impact / Customer Satisfaction	Donor will be smug after donating plasma. Recipient lives can be saved at critical situation.
5.	Business Model (Revenue Model)	This plasma donor application can be used by donor and recipient without any difficulties And free to use.
6.	Scalability of the Solution	With the help of cloud it is really useful for the donor and recipient to modify the details and to save their personal details & use it for future use.

3.4 Problem Solution fit



https://github.com/IBM-EPBL/IBM-Project-4521-1658733854/blob/1fd3bbee862b131f2706b117322e84b66ff1f851/Pre-Development/Project%20Design%20Phase-1/Problem_solution_fit%20.pdf

4. REQUIREMENT ANALYSIS

4.1 Functional requirement

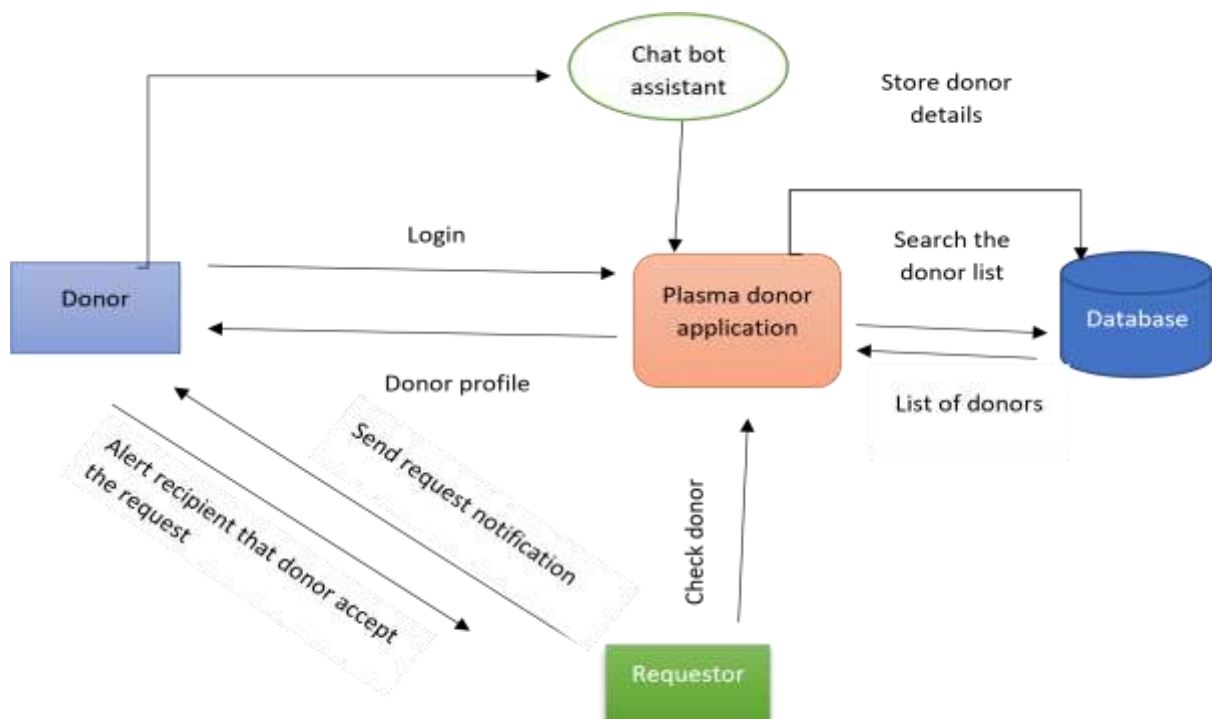
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through web application
FR-2	User Confirmation	Confirmation via Email
FR-3	User login	Login with email id & password
FR-4	User interaction	Ask queries through chatbot
FR-5	Request	Alert notification through mail or SMS
FR-6	Donor confirmation	Donor send confirmation to requestor

4.2 Non-functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application should be user friendly and user interface should be finetuned.
NFR-2	Security	The donor and requestor details are highly secured with the help of authentication.
NFR-3	Reliability	The application is highly reliable and can be accessible for a long haul
NFR-4	Performance	The application will perform in all the situation effectively
NFR-5	Availability	It is available on both online and offline. The application should work 24/7
NFR-6	Scalability	I t is scalable when the number of user level increases.

5. PROJECT DESIGN

5.1 Data Flow Diagrams



5.2 Solution & Technical Architecture

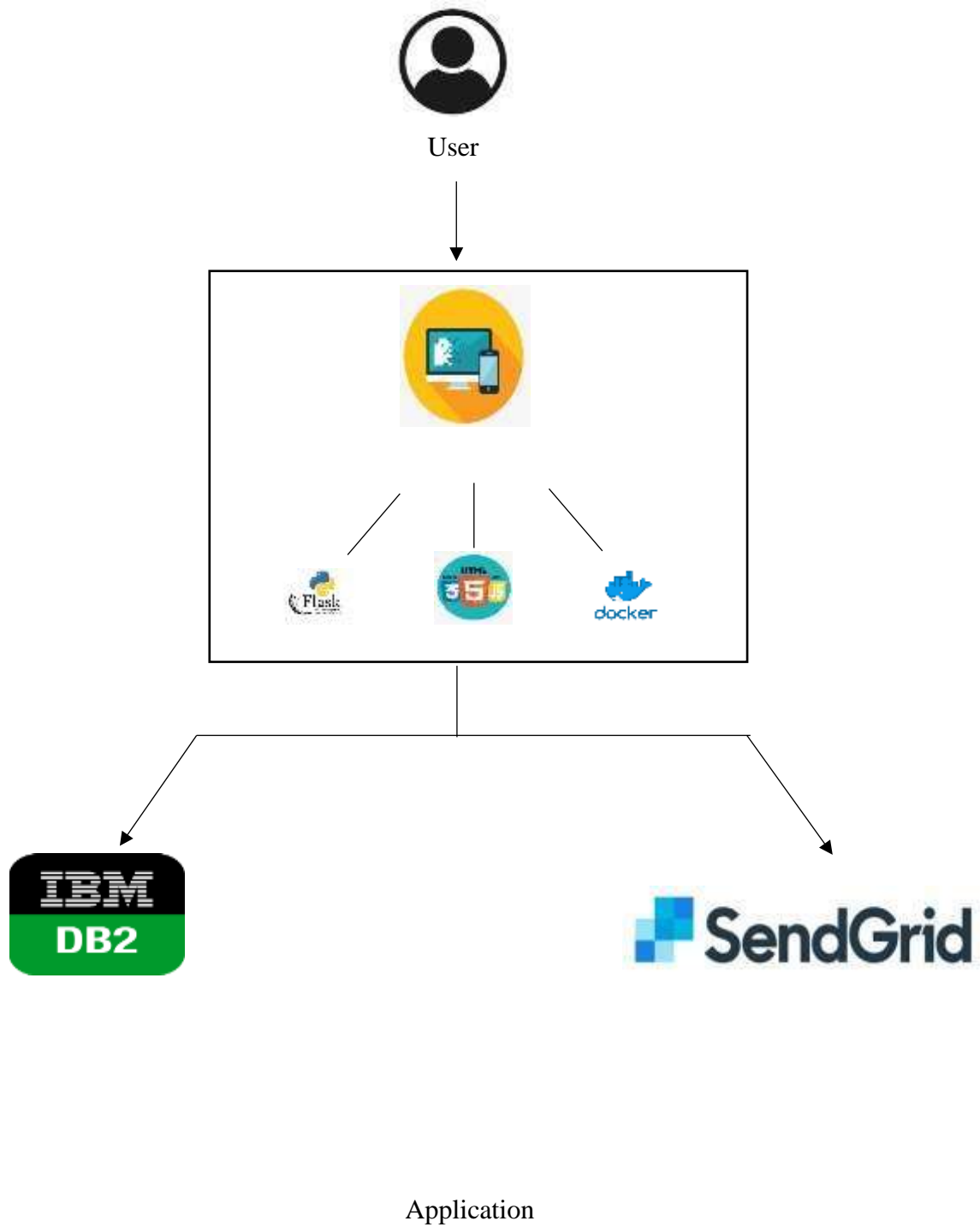


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interaction with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript, bootstrap etc.
2.	User registration	User data will be collected and will be verified and validated before pushing it into database.	Java script, Python flask, IBM_DB
3.	Chatbot	Clarify user doubts	IBM Watson service
4.	Confirmation e-mail	Sending the confirmation email to the verified users	SendGrid
5.	Database	store, Configuration, retrieve the user's details	MySQL
6.	Cloud Database	To store and view the information about the donor and requester	IBM DB
7.	File storage	File storage requirements	IBM block storage or other storage services or Local file system

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python flask framework is used	Python flask
2.	Security Implementations	Mandatory access control (MAC) and kubernetes is used	SHA-256, Encryptions, IAM Controls, OWASP.
3.	Scalable Architecture	3 Tire Architecture is used	Web server- HTML, CSS, JS Application server- Python flask Database server- IBM_DB2
4.	Availability	Using load balancer to reduce traffic in the network	IBM load balancer
5.	Performance	User friendly API	IBM content delivery network

5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Login	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Donor	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
Donor	Login	USN-3	As a user, I can log into the application by entering email & password	I can login in the official page.	High	Sprint-1
Donor	Donor profile	USN-4	As a donor, I can edit or modify my details in the profile	I can modify my account	medium	Sprint-1
Requestor	Search	USN-5	As a user I can Search for the right donor	I can get the right donor	High	Sprint-2
Requestor	Notification	USN-6	As a user I can notify the donor by sending notification	I can send notification to donor	Medium	Sprint-2
Donor and requestor	Dashboard	USN-7	An opensource application helps in connecting donor and recipient	I can collaborate with the donor	High	Sprint-1
Chatbot	Clarify	USN-8	As a user I can ask my doubts in chatbot	I can clarify my doubts	medium	Sprint-2

6. PROJECT PLANNING & SCHEDULING

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Rejisha Anchana
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Merishmaha Irin blessy
Sprint-2	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Irin blessy Pavithra merishmaha
Sprint-2	Donor profile	USN-4	As a donor, I can edit or modify my details in the profile	1	Medium	Pavithra Anchana
Sprint-3	Search	USN-5	As a user I can Search for the right donor	2	High	Anchana Rejisha Merish maha
Sprint-3	Notification	USN-6	As a user I can notify the donor by sending notification	2	High	Pavithra Irin blessy Merishmaha
Sprint-1	Dashboard	USN-7	An opensource application helps in connecting donor and recipient	1	Medium	Merishmaha Anchana Rejisha
Sprint-4	Clarify	USN-8	As a user I can ask my doubts in chatbot	2	High	Pavithra Irin blessy
Sprint -2	Donor list	USN-9	As a user I can view all the donor details	1	Medium	Anchana Rejisha Merish maha

6.2 Sprint Delivery Schedule

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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

6.3 Reports from JIRA



7. CODING & SOLUTIONING

7.1 Feature 1

Python

- Python is a widely-used, interpreted, object-oriented, and high-level programming language with dynamic semantics, used for general- purpose programming. It's everywhere, and people use numerous Python-powered devices on a daily basis, whether they realize it or not.
- Python was created by Guido van Rossum, and first released on February 20, 1991.
- Python is derived from many other languages, including ABC, Modula-3, C, C++, Algol-68, Smalltalk, and Unix shell and other scripting languages.
- Python is copyrighted. Like Perl, Python source code is now available under the GNU General Public License (GPL)
- It is easy to learn – the time needed to learn Python is shorter than for many other languages; this means that it's possible to start the actual programming fast
- It is easy to use for writing new software – it's often possible to write code faster when using Python.
- It is easy to obtain, install and deploy – Python is free, open and multiplatform; not all languages can boast that.
- Programming skills prepare you for careers in almost any industry and are required if you want to continue to more advanced and higher- paying software development and engineering roles.
- Python is now maintained by a core development team at the institute, although Guido van Rossum still holds a vital role in directing its progress.

7.2 Feature 2

Flask

- Flask is a micro web framework written in Python. It is classified as a Micro framework because it does not require particular tools or libraries.
- It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself.
- Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools

7.3 Database Scheme

IBM Db2

- DB2 is a database product from IBM.
- It is a Relational Database Management System (RDBMS). DB2 is designed to store, analyze and retrieve the data efficiently.
- DB2 product is extended with the support of Object-Oriented features and non

relational structures with XML.

- Provide a massively parallel processing (MPP) architecture Exploits Hive, HBase and Apache Spark concurrently for best-in-class analytic capabilities.
- Provides low latency support for ad-hoc and complex queries, high performance, and federation capabilities Understands dialects from other vendors and various products from Oracle, IBM® Db2® and IBM Netezza® Enables advanced row and column security

Kubernetes

Kubernetes is also known as '**k8s**'.

- Kubernetes is an extensible, portable, and open-source platform designed by **Google** in **2014**.
- It is mainly used to automate the deployment, scaling, and operations of the container-based applications across the cluster of nodes.
- Kubernetes helps to manage containerised applications in various types of physical, virtual, and cloud environments.
- Google Kubernetes is a highly flexible container tool to consistently deliver complex applications running on clusters of hundreds to thousands of individual servers
- Kubernetes is the Linux kernel which is used for distributed systems.
- It helps you to be abstract the underlying hardware of the nodes(servers) and offers a consistent interface for applications that consume the shared pool of resources.

8. TESTING

8.1 Test Cases

Test case_id	Test scenario	Test data	Expected result	Actual result	Status
TC_001	Verify user is able to see the login	Click on the login button	Login should display	Navigated to login page	pass
TC_002	Donor will enter all the details asked in the input field	Enter all details	The details should be stored	Successfully all data is stored	pass
TC_003	Donor login to the application using their signup	Enter the username and password	It will check the data in the IBM DB2 with the donor	successful	pass

	credentials such as username and password		entered during login details and then navigate to donor homepage		
TC_004	logout button in the navigation bar	Click the navigation bar	While clicking logout it should return to home page	successful	pass
TC_005	For registering, provide your details	Enter your details and click submit	After clicking submit the details will be saved	successful	pass

8.2 User Acceptance Testing

The test coverage and open issues of the plasma donor application project at the time of release to User Acceptance Testing (UAT)

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Sub total
By Design	8	4	2	3	17
Duplicate	1	0	2	1	4
External	2	3	0	1	6
Fixed	10	2	5	18	35

Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	3	2	1	6
Totals	21	12	13	25	71

Test Case Analysis

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	8	0	0	8
Client Application	50	0	0	50
Security	2	0	0	2
Outsource Shipping	3	0	0	3
Exception Reporting	10	0	0	10
Final Report Output	6	0	0	6
Version Control	3	0	0	3

9. RESULTS

9.1 Performance Metrics

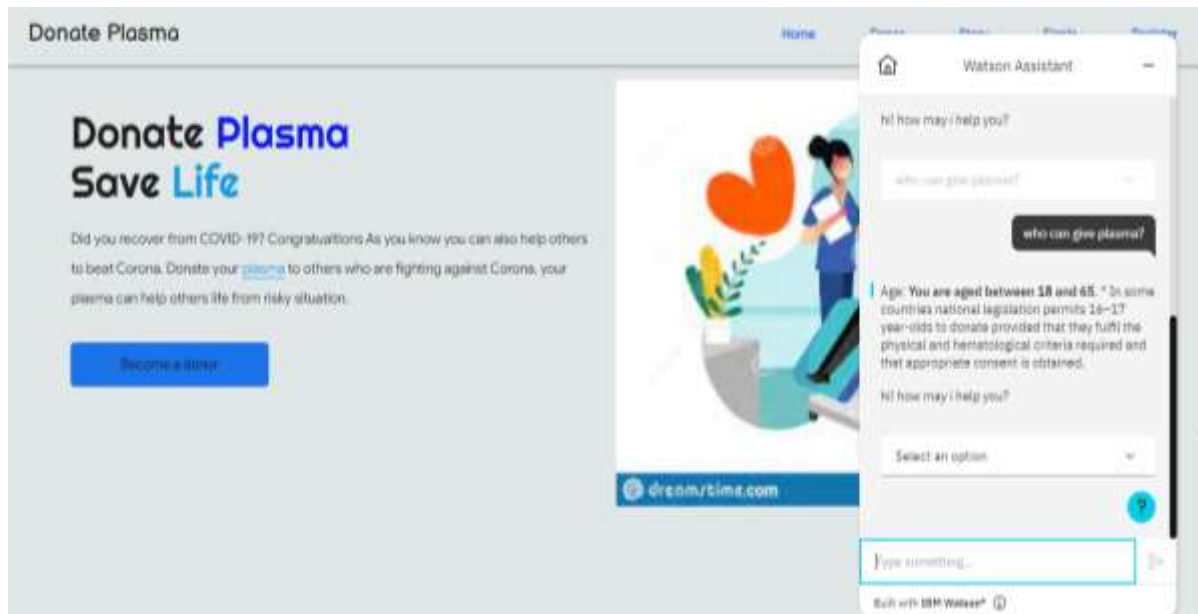
Project metrics are used to track the progress and performance of a project.

- Monitoring parts of a project like productivity, scheduling, and scope

make it easier for team leaders to see what's on track. Deadlines or budgets to meet their client's expectations

Output

Home page & chatbot



Story page




Registration

Donate Plasma

Sign InRegister

COVID-19 and Blood Donation

World plasmatape at risk and requires faster donations. Plasma is the liquid part of blood that carries nutrients, hormones, and antibodies. It's the most abundant component of blood, and it's the only plasma that can be used.



Create account to save others

First Name

Enter your first name

Last Name

Enter your last name

DOB

Enter your date of birth

Password

Enter your password

Confirm Password

Enter your password again

Submit

Login

Welcome Back!

Login page


Username


Password

Forgot Password

LOGIN

GIVE PLASMA SAVE LIVES





Update donor profile

Donate Plasma

Logout

This page says:
successfully updated!

OK

Update Profile

Create Profile

Name*

anjali

Phone Number*

8134664919

Address

Madurai

Blood Group

A+

Available

Unavailable

Update

Updated Donor list

Donor List

Search Donor Here...

Name	Age	Address	Blood Group	Mobile Number	Availability Status
anjali	25	Madurai	A+	8134664919	Available
Alex	28	Madurai	A+	9876543210	Available
Shrey	31	Madurai	A+	9876543210	Available
Sita	29	Chennai	B+	9876543210	Available

10. ADVANTAGES

- Easy to connect donor and recipient in a same platform.
- Easy to find the right donor.
- By using this application, the users can either **raise** a request for plasma donation **or** requirement.
- Simple user interface
- It helps to reduce the time taken to choose the right donor.

DISADVANTAGES

- Requires internet facility

11. CONCLUSION

In recent days, it is noticed the increase in plasma request posts on social media such as Facebook, Twitter, and Instagram. Interestingly there are many people across the world interested in donating plasma when there is a need, but those donors don't know where and how to donate plasma.

This proposed system helps to provide the platform for the plasma donors and the recipient. It acts as intermediate between the plasma donors and the needy. The donor who wants to donate plasma can simply upload their details in the website and can donate the plasma to the plasma bank. This project will help the plasma banks to improve their services.

12. FUTURE SCOPE

Upgrading the UI that is more user-friendly which will help many users to access the website and also ensures that many plasma donors can be added into the community.

13. APPENDIX

Source Code

Index .html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Donate Plasma</title>
    <link
      href="https://fonts.googleapis.com/icon?family=Material+Icons"
      rel="stylesheet"
    />
    <link
      rel="stylesheet"
      href="https://fonts.googleapis.com/css?family=Google+Sans"
      as="style"
    />
    <link rel="stylesheet" href="materializecss.min.css" />
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <header>
      <nav class="nav-extended nav-fixed transparent z-depth-1">
        <div class="nav-wrapper">
          <a href="index.html" class="brand-logo" id="logo">Donate Plasma</a>
```

```
<a href="#" class="sidenav-trigger menu" data-target="mobile-nav">
  <i class="material-icons">menu</i>
</a>
<ul id="nav-mobile" class="right hide-on-med-and-down">
  <li>
    <a
      href="index.html"
      class="btn-flat hover-underline-animation"
      id="donor"
    >Home</a>
  >
</li>
  <li>
    <a
      href="#donorList"
      class="btn-flat hover-underline-animation"
      id="donor"
    >Donor</a>
  >
</li>
  <li>
    <a
      href="story.html"
      class="btn-flat hover-underline-animation"
      id="story"
    >Story</a>
  >
</li>
  <li>
```

```
<a
  href="signin.html"
  class="btn-flat hover-underline-animation"
  id="signin"
  >SignIn</a
>
</li>
<li>
  <a
    href="register.html"
    class="btn-flat hover-underline-animation"
    id="register"
    >Register</a
  >
</li>
</ul>
</div>
</nav>
<ul class="sidenav" id="mobile-nav">
  <li><a href="index.html">Home</a></li>
  <li><a href="#donorList">Donor</a></li>
  <li><a href="story.html">Story</a></li>
  <li><a href="signin.html">SignIn</a></li>
  <li><a href="register.html">Register</a></li>
</ul>
</header>

<main>
  <div class="customContainer">
```

```

<!-- INITIAL SECTION -->
<div class="section">
  <div class="row">
    <div class="col s12 l6 m6">
      <h3 id="bannerText">
        Donate <span id="plasma">Plasma</span> <br />
        Save <span id="life">Life</span>
      </h3>
      <span id="subBanner"
        >Did you recover from COVID-19?
        <span id="congo">Congratualtions</span>
        As you know you can also help others to beat Corona. Donate your
        <a
          href="https://www.redcrossblood.org/donate-blood/dlp/plasma-
information.html"
          target="_blank"
        >plasma</a>
        >
        to others who are fighting against Corona. your plasma can
        help others life from risky situation.
      </span>
      <br />
      <a
        href="register.html"
        class="waves-effect waves-indigo btn-flat donorBtn"
      >Become a donor</a>
    </div>
  </div>
</div class="col s12 l6 m6">

```

```

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

```
<!-- TABLE SECTION -->
```

```
<h3 class="donor">
  Donor List
</h3>
<div class="row">
  <div class="input-field col s12 m6 l4">
    <i class="material-icons prefix indigo-text text-lighten-3"
      >search</i
    >
    <input
      id="search"
      type="text"
      placeholder="Search for any info..."
      autocomplete="off"
    />
  </div>
```


</div>

<!-- <div class="custom-scrollbar"> -->

<table class="centered highlight responsive-table" href="mysql://ibm_cloud_30399dec_4835_4967_a23d_30587a08d9a8:\$PASSWORD@981ac415-5a35-4ac7-b6bb-fb609326dc42.8f7bfd8f3faa4218aec56e069eb46187.databases.appdomain.cloud:32704/ibmcloudodb?ssl-mode=verify-full">

<thead>

<tr>

<th>Name</th>

<th>Age</th>

<th>Address</th>

<th>Blood Group</th>

<th>Mobile Number</th>

<th>Availability Status</th>

</tr>

</thead>

</table>

</main>

<script

src="https://code.jquery.com/jquery-3.5.1.min.js"

integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="

crossorigin="anonymous"

></script>

```

<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.j
s"></script>
<script src="plugin.js"></script>
</body>
</html>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.j
s"></script>
<script src="plugin.js"></script>
<script>
window.watsonAssistantChatOptions = {
  integrationID: "2392cfc9-e194-48cc-987d-f5fe05e72990", // The ID of this
integration.
  region: "jp-tok", // The region your integration is hosted in.
  serviceInstanceID: "f458535c-c1ab-4fc8-b45b-0c09f4f4a508", // 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>
</body>
</html>

```

Profile.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Donate Plasma</title>
    <link
      href="https://fonts.googleapis.com/icon?family=Material+Icons"
      rel="stylesheet"
    />
    <link
      rel="stylesheet"
      href="https://fonts.googleapis.com/css?family=Google+Sans"
      as="style"
    />
    <link rel="stylesheet" href="materializecss.min.css" />
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <header>
      <nav class="nav-extended nav-fixed transparent z-depth-1">
        <div class="nav-wrapper">
          <a class="brand-logo" id="logo">Donate Plasma</a>
          <a href="#" class="sidenav-trigger menu" data-target="mobile-nav">
            <i class="material-icons">menu</i>
          </a>
          <ul id="nav-mobile" class="right hide-on-med-and-down">
            <li>
              <a
                href="index.html"
                class="btn-flat hover-underline-animation">
```

```

        id="logout"
        ><i class="material-icons right">exit_to_app</i> Logout</a
    >
</li>
</ul>
</div>
</nav>
<ul class="sidenav" id="mobile-nav">
    <li><a href="index.html">Logout</a></li>
</ul>
</header>

<main>
<div class="container">
    <div class="row topMargin">
        <div class="col s12">
            <ul class="tabs center">
                <li class="tab">
                    <a class="active" href="#update_profile">Update Profile</a>
                </li>
                <li class="tab">
                    <a href="#story">Story</a>
                </li>
            </ul>
        </div>
        <div id="update_profile" class="col s12">
            <div class="row">
                <br />
                <div class="center-align">
                    <span class="title">Update Profile</span>
                </div>
                <div class="right">
                    <a class="waves-effect waves-light btn-flat right profileDlt"
                        ><i class="material-icons right">delete_forever</i>Delete

```

```

        Profile</a>
    >
</div>
</div>
<!-- UPDATE PROFILE -->
<div class="card rounded">
    <div class="card-content">
        <div class="row">
            <form action="" method="post">
                <div class="row">
                    <div class="col s12 l6 m6">
                        <div class="input-field col s12">
                            <input
                                id="first_name"
                                type="text"
                                class="validate"
                                required
                            />
                            <label for="first_name">Name*</label>
                        </div>
                    </div>
                    <div class="col s12 l6 m6">
                        <div class="input-field col s12">
                            <input
                                placeholder="enter your registered mobile number"
                                id="mobile_number"
                                type="tel"
                                class="validate"
                                pattern="[0-9]{10}"
                                required
                            />
                            <label for="mobile_number">Phone Number*</label>
                        <span
                            class="helper-text"

```

```

        data-error="Invalid number format"
        data-success="Valid number format"
    ></span>
</div>
</div>
</div>
<div class="row">
    <div class="col s12 l6 m6">
        <div class="input-field col s12">
            <textarea
                id="address"
                class="materialize-textarea"
            ></textarea>
            <label for="address">Address</label>
        </div>
    </div>
    <div class="col s12 l6 m6">
        <div class="input-field col s12">
            <select required>
                <option value="" disabled selected>
                    >Choose your option</option>
                >
                <option value="a+">A+</option>
                <option value="a-">A-</option>
                <option value="b+">B+</option>
                <option value="b-">B-</option>
                <option value="ab+">AB+</option>
                <option value="ab-">AB-</option>
                <option value="o+">O+</option>
                <option value="o-">O-</option>
            </select>
            <label>Your blood group*</label>
        </div>
    </div>
</div>

```

```

</div>
<div class="row">
  <div class="col s12 l6 m6">
    <div class="switch">
      <label>
        Unavailable
        <input type="checkbox" />
        <span class="lever"></span>
        Available
      </label>
    </div>
  </div>
</div>
<div class="center-align">
  <button
    type="submit" onclick="alert('successfully updated')"
    class="waves-effect btn blue darken-3 btnRounded"
  >
    Update
  </button>
</div>
</form>
</div>
</div>
</div>
<div id="story" class="col s12">
  <br />
  <div class="center-align">
    <span class="title">Share your feedback</span>
  </div>
<div class="row">
  <form class="col s12">
    <div class="row">

```

```
<div class="input-field col s12">
  <textarea
    id="share_story"
    data-length="300"
    maxlength="300"
    class="materialize-textarea"
  ></textarea>
  <label for="share_story">Your story</label>
</div>
<div class="center-align">
  <button
    type="submit"
    class="waves-effect btn blue darken-3 btnRounded"
  >
    <i class="material-icons right">share</i>
    Share
  </button>
</div>
</div>
</div>
</form>
</div>
</div>
</div>
<!-- CHANGE PASSWORD -->
</div>
</main>
```

```
<script
  src="https://code.jquery.com/jquery-3.5.1.min.js"
  integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="
  crossorigin="anonymous"
></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>
```



```
<script src="plugin.js"></script>
</body>
</html>
```

Register.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Donate Plasma</title>
    <link
      href="https://fonts.googleapis.com/icon?family=Material+Icons"
      rel="stylesheet"
    />
    <link
      rel="stylesheet"
      href="https://fonts.googleapis.com/css?family=Google+Sans"
      as="style"
    />
    <link rel="stylesheet" href="materializecss.min.css" />
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <header>
      <nav class="nav-extended nav-fixed transparent z-depth-1">
        <div class="nav-wrapper">
          <a href="index.html" class="brand-logo" id="logo">Donate Plasma</a>
          <a href="#" class="sidenav-trigger menu" data-target="mobile-nav">
```

```
<i class="material-icons">menu</i>
</a>
<ul id="nav-mobile" class="right hide-on-med-and-down">
  <li>
    <a
      href="signin.html"
      class="btn-flat hover-underline-animation"
      id="signin"
    >SignIn</a>
  >
  <a
    href="register.html"
    class="btn-flat hover-underline-animation"
    id="register"
  >Register</a>
  >
</li>
</ul>
</div>
</nav>
<ul class="sidenav" id="mobile-nav">
  <li><a href="register.html">Register</a></li>
  <li><a href="signin.html">SignIn</a></li>
</ul>
</header>

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

```
<div class="card center-align rounded credentialCard">
  <div class="card-content">
    <div class="row">
      <div class="col s12 l5 m5">
        
      </div>
      <div class="col s12 l7 m7">
        <h5 class="center-align subTitle">
          Create account to save others
        </h5>
        <form action="" method="get" id="registrationForm">
          <div class="input-field col s12">
            <input
              placeholder="ENTER YOUR NAME"
              id="mobile_number"
              type="text"
              class="validate"
              autocomplete="off"
              required
            />
            <label for="name">NAME</label>
            <span
```

```
        class="helper-text"
        data-error="please enter you name"
        data-success="Valid"
    ></span>
</div>
<div class="input-field col s12">
    <input
        placeholder="ENTER 10 DIGIT MOBILE NUMBER"
        id="mobile_number"
        type="tel"
        class="validate"
        pattern="[0-9]{10}"
        autocomplete="off"
        required
    />
    <label for="mobile_number">Mobile Number</label>
    <span
        class="helper-text"
        data-error="Invalid number format"
        data-success="Valid number format"
    ></span>
</div>
<div class="input-field col s12">
    <input
        placeholder="ENTER YOUR AGE"
        id="age"
        type="tel"
        class="validate"
        pattern="[0-9]{2}"
```

```
        autocomplete="off"
        required
    />
    <label for="age">AGE</label>
    <span
        class="helper-text"
        data-error="Invalid number format"
        data-success="Valid number format"
    ></span>
</div>
<div class="input-field col s12">
    <input
        id="password"
        name="password"
        type="password"
        minlength="6"
        data-rule-password="true"
        class="validate"
        required
    />
    <label for="password">Password</label>
    <span
        class="helper-text"
        data-error="At least 6 characters"
        data-success="Valid"
    ></span>
</div>
<div class="input-field col s12">
    <input
```

```
        id="confirmPassword"
        name="confirmPassword"
        type="password"
        data-rule-password="true"
        data-rule-equalTo="#password"
        class="validate"
        required
    />
    <label for="confirmPassword">Confirm Password</label>
    <span
        class="helper-text"
        data-error="Password not match"
        data-success="Password match"
    ></span>
</div>
<div class="center-align">
    <button
        type="submit" onclick="alert('successfully updated')"
        class="waves-effect btn blue darken-3 btnRounded"
    >
        Submit
    </button>
</div>
</form>
</div>
</div>
</div>
</div>
```

```
</div>
</main>

<script
  src="https://code.jquery.com/jquery-3.5.1.min.js"
  integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="
  crossorigin="anonymous"
></script>

<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>

  <script src="plugin.js"></script>
</body>
</html>
```

Sign in.html

```
<!DOCTYPE html>
<!-- Code By Webdevtrick ( https://webdevtrick.com ) -->
<html lang="en" >
<head>
  <meta charset="UTF-8">
  <title>Animated Login Page | Webdevtrick.com</title>
  <link href="https://fonts.googleapis.com/css?family=Rubik&display=swap"
rel="stylesheet">
  <link rel="stylesheet" href="signin.css">
</head>
<body>

<div class="container">
  <div class="left-section">
```

```

<div class="header">
  <h1 class="animation a1">Welcome Back!</h1>
  <h4 class="animation a2"> Login page.</h4>
</div>

<div class="form">
  <input      type="email"      class="form-field      animation      a3"
placeholder="Username">
  <input      type="password"    class="form-field      animation      a4"
placeholder="Password">
  <p class="animation a5"><a href="#">Forgot Password</a></p>
  <button class="animation a6">LOGIN</button>
</div>
</div>

<div class="right-section"></div>
</div>

```

```

</body>

```

```

</html>

```

Story.html

```

<!DOCTYPE html>

```

```

<html lang="en">

```

```

  <head>

```

```

    <meta charset="UTF-8" />

```

```

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

```

```

    <title>Donate Plasma</title>

```

```

    <link

```

```

      href="https://fonts.googleapis.com/icon?family=Material+Icons"

```

```

      rel="stylesheet"

```

```

    />

```



```

<link
  rel="stylesheet"
  href="https://fonts.googleapis.com/css?family=Google+Sans"
  as="style"
/>
<link rel="stylesheet" href="materializecss.min.css" />
<link rel="stylesheet" href="style.css" />
</head>
<body>
  <header>
    <nav class="nav-extended nav-fixed transparent z-depth-1">
      <div class="nav-wrapper">
        <a href="index.html" class="brand-logo" id="logo">Donate Plasma</a>
        <a href="#" class="sidenav-trigger menu" data-target="mobile-nav">
          <i class="material-icons">menu</i>
        </a>
        <ul id="nav-mobile" class="right hide-on-med-and-down">
          <li>
            <a
              href="index.html"
              class="btn-flat hover-underline-animation"
              id="donor"
            >Home</a>
          </li>
          <li>
            <a
              href="index.html#donorList"
              class="btn-flat hover-underline-animation"
              id="donor"

```

```
>Donor</a>
>
</li>
<li>
<a
href="story.html"
class="btn-flat hover-underline-animation"
id="story"
>Story</a>
>
</li>
<li>
<a
href="signin.html"
class="btn-flat hover-underline-animation"
id="signin"
>SignIn</a>
>
</li>
<li>
<a
href="register.html"
class="btn-flat hover-underline-animation"
id="register"
>Register</a>
>
</li>
</ul>
</div>
```

```
</nav>
<ul class="sidenav" id="mobile-nav">
  <li><a href="index.html">Home</a></li>
  <li><a href="#donorList">Donor</a></li>
  <li><a href="story.html">Story</a></li>
  <li><a href="signin.html">SignIn</a></li>
  <li><a href="register.html">Register</a></li>
</ul>
</header>
```

```
<main>
  <div class="customContainer">
    <!-- USER STORY SECTION -->
    <div class="row">
      <div class="center-align">
        <span class="title">PLASMA DONOR APPLICATION </span>
      </div>
      <br />
      

    <!-- USER STORY CARD -->
    <!-- START -->
```

```
<div class="col s12 m6 l6">
  <div class="card horizontal rounded cardHorizontal">
    <div class="card-stacked">
      <div class="header">

        <span>WELCOME</span>
      </div>
      <div class="card-content">
        <p>
          Welcome to Plasma Donation Website. As we all know, the world
          is suffering from the COVID-19 crisis. Our government and health care
          professionals are trying their best to help the patients suffering from COVID-19.
          Plasma therapy is an experimental approach to treat COVID-positive patients and
          help them recover faster. But, in this situation, it is difficult for a patient to find a
          plasma donor as everybody can't donate plasma.
        </p>
      </div>
    </div>
  </div>
<!-- END -->

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

```
        </div>
    </div>
</div>
</div>
</main>

<script
  src="https://code.jquery.com/jquery-3.5.1.min.js"
  integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="
  crossorigin="anonymous"
></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/js/materialize.min.js"></script>
<script src="plugin.js"></script>

</body>
</html>
```

GitHub link

<https://github.com/IBM-EPBL/IBM-Project-4521-1658733854>

Project Demo Link

<https://drive.google.com/file/d/1s2Oqjh5hXxyxQzE02jXuS4JOXhhgokEN/view?usp=drivesdk>