PLASMA DONAR APPLICATION

HX8001 - PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP

REPORT

Submitted by

DHARCHANA K **820419205015**

JAYASRIDHARA B **820419205025**

JINTO MARIA V.A **820419205026**

JOTHIMANI N **820419205027**

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PROJECT REPORT

1.INTROTIODUCN

1.1 PROJECT OVERVIEW

Cloud computing helps in on-demand deliver of IT resources over the internet with pay-as-you-go pricing model where users have to pay only for the resource that they use. This helps to reduce the additional infrastructural cost and users can access technology services such as power, storage, compute, database, networking, analytics and also intelligence over the internet in order to offer flexible, innovation, and economies of scale. Users can run their infrastructure more efficiently and scale their business according to their requirement. Cloud deployment modules such as public cloud, private cloud, hybrid cloud and community cloud helps the users to choose the type of deployment options that are beneficial for their company. Cloud service models consists of software as a service (saas), platform as a service (paas) and infrastructure as a service (iaas). In Software as a service a third party service providers will host the applications and make them available over the internet. Some a requires purchasing of licenced version with involves huge cost and with the help of software as a service those applications can also be used without having to buy the licence of the software which is more cost effective.

Plasma is that the clear, straw-coloured liquid part of blood this is still once crimson blood cells, white blood cells, platelets and alternative cellular elements rectangular measure removed. it's the only largest element of human blood, comprising concerning fifty-five p.c, and carries water, salts, enzymes, antibodies and alternative proteins. A plasma donor has to pass health screening prior to each donation. Plasma is collected through a process known as plasmapheresis. During this process an automated device is used to separate the plasma from the blood. Once the plasma is collected red blood cells and other components will be returned to the donor. After plasma is collected it is tested for suitability for future manufacture, frozen and then held for 60 days prior to pooling

A donor has to register to the website providing his details such as name, contact information (phone number and email id) along with donor’s blood group and donor’s plasma count.

1.2 PURPOSE

The management is ad-hoc with no semblance of organization or standard operating procedures. Donors cannot access plasma from plasma banks other than the bank where they have donated plasma. In the present system all the plasma banks are attached to hospitals and there is no stand-alone plasma bank. Some hospital has its own systems and limitations. Because of the low number of donors and more number of plasma banks, the efficiency and quality of plasma banks are low, resulting in wastage of plasma and plasma components. There is Scarcity of rare plasma group, Unavailability of plasma during emergency, Less awareness among people about plasma donation and plasma transfusion,Deaths due to lack of plasma during operations.

2. LITERATURE SURVEY

A. **Bharat Blood Bank in India [2005]** - Donors in India who want to donate blood can register at Bharat Blood Bank after reading the basic constraints of donating blood. Bharat Blood Bank requests the donor's name, password, and ID to allow the donor to access his account, which contains information about his date of birth, blood group, gender status, weight, email ID, mobile no, city, address, state, and information about kidney, cancer and heart disease, and date of his last blood donation. After that, the people who need blood can browse the site and display the list of blood donors. BharatBloodBank.com allows recipients to search by area to have more reachable donors. The website provides the phone number to the recipients to make contact with the donor. Also, BharatBloodBank.com provides information about Blood Donation, such as tips, scientific information, facts, etc. It selects other blood banks for blood donation. BharatBloodBank.com offers these services for free. Further, the site doesn't use the collected information for any commercial purposes. [1]

B.**Web-based blood donor MIS in Uganda [2009]** - A web-based blood Management Information System (MIS) was developed to improve the lives of the vulnerable in Uganda, besides providing adequate supply of blood.The study objectives were to develop a web-basedblood management system to help in the management of blood donors' records and make it

easy to distribute the blood in different parts of the country, based on each hospital's demands.[2]

C. **An IEEE paper was authored on Data Mining for Better Healthcare[2016]**: A Path towards Automated Data Analysis? By Tania Cerquitelli, Elena Baralis, Lia Morra and Silivia Chiusano. This paper addresses the mining activity from the medical database perspective. The mining system should be able to devise which knowledge could be most interesting to the user extract actionable knowledge from large medical dataset with minimal user intervention. System should be capable of yielding actionable knowledge extracting manageable sets. Large parameter spaces need to be explored at abstraction level to envision a system capable of evaluating and comparing many data-mining technique configurations at a time. In 2015, a IEEE paper on Mobile Based Healthcare Management using Artificial Intelligence was authored by Amiya Kumar Tripathy, Rebeck Carvalho, Keshav Pawaskar, Suraj Yadav, Vijay Yadav. In this paper, the health-care management system is proposed which will consist of mobile based heart rate measurement so that the data can be transferred and diagnosis based on heart rate can be provided quickly with a click of button. The system will consist of video conferencing to connect remotely with doctor. The system will also consist of Doc-Bot and an online Blood Bank. In this implemented project, heart rate calculation differs from actual one due to noise present in input signal. So the performance is not efficient in practical. Methodology used Clustering, Text Mining, Pattern Matching, Support Vector Machine, Partitioning Algorithm and DonorHART tool used in collecting donor reaction information. Limitations are Difficulty in handling emergency situation and No proper security for personal details misuse.

D. **Serverless computing: Economic and architectural impact [2017]** - In this paper, the author has carried out analysis based on the opportunities presented by serverless computing. They emphasise that serverless services are more affordable approach for many network services and it is more user friendly . These services will help to improve the new business opportunities. [4]

E. **Building a chatbot with serverless computing[2016]**- Author conducted a survey of existing serverless platform in this paper from source projects, industry, academia, use cases, and key characteristics and has described the challenges and the open problems associated with it.

Authors work presented a handson experience of serverless technologies using different services from different cloud provides such as Amazon, Google, IBM, Microsoft Azure. [3]

2.1 EXISTING PROBLEM

The operation of the blood bank still now is maintained in the manual system.

- The operation is tedious, time consuming and space consuming.
- It creates room for errors as the data is entered manually by the persons.
- It includes the risk of the documents being lost over the years and maintenance of the records is difficult.
- The data recorded during testing or while acquiring the details of different aspects of blood bank management system is not so accurate and precise.
- Maintaining the stock of blood and the daily transactions without computerisation also poses a challenge.

2.2 REFERENCES

[1] Bharat Group. Bharat Group Launches A Noble Non-Profit Social Service Initiative, 2005.

[2] Fredrick K. A Web-Based Blood Donor Management Information System for the Red Cross Society, Uganda (Wbbdmi), 2009.

[3] P. C. P. C. a. V. I. M. Yan, "Building a chatbot with serverless computing," IBM watson research center, 2016.

[4] R. C. Gojko Adzic, "Serverless computing: Economic and architectural impact," ESEC/FSE, 2017.

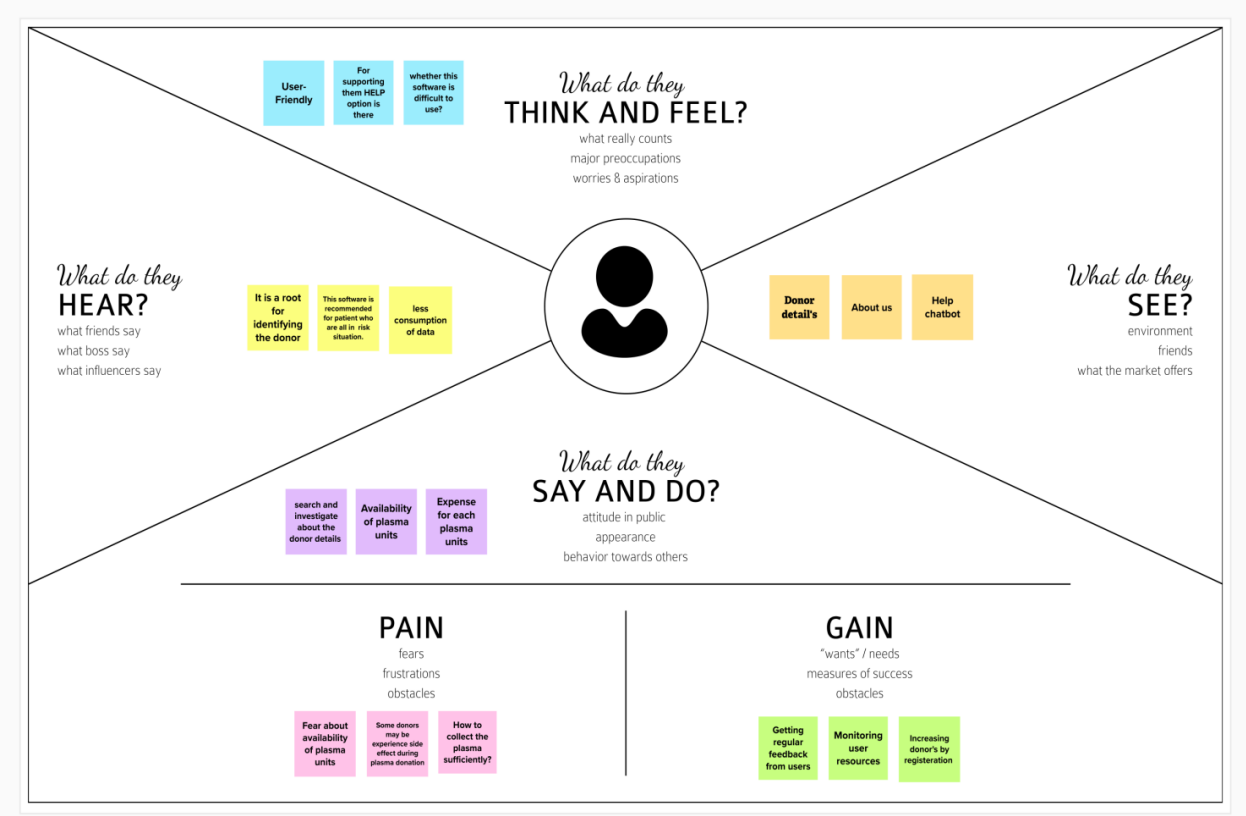
2.3 PROBLEM STATEMENT DEFINITION

Blood Donation Application system is programmed in order to help the human or patient. Who are seeking plasma, it keeps the detailed information as what kind of plasma scarcity of rare blood group. unavailability of blood during emergency. Less awareness among people among blood donation blood transfusion. Death during the lack of blood during operation. It doesn't store plasma but store information about the plasma because there was time need plasma in urgent and help the people to find plasma donor.

3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

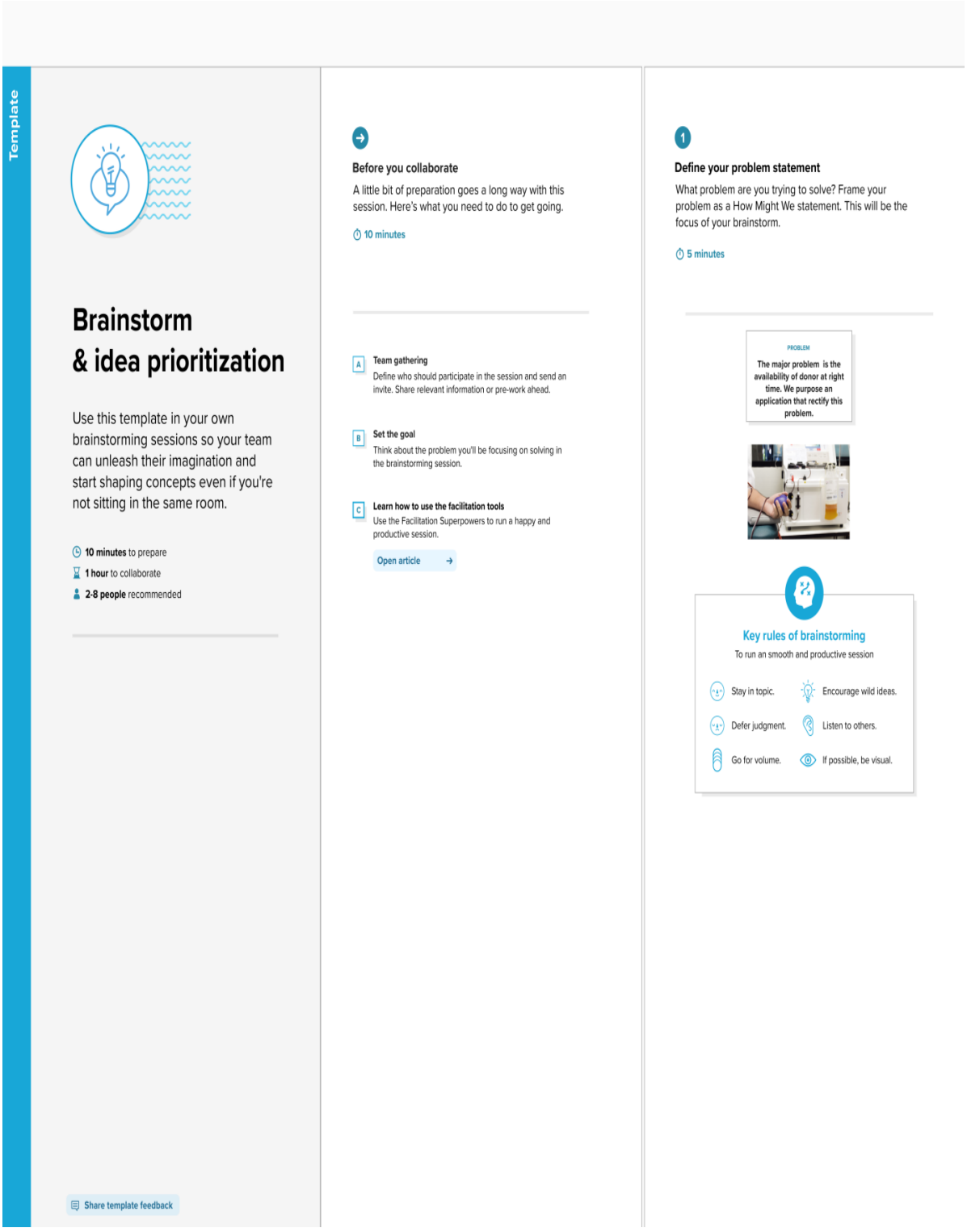
- An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.
- It is a useful tool to helps teams better understand their users.
- Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.



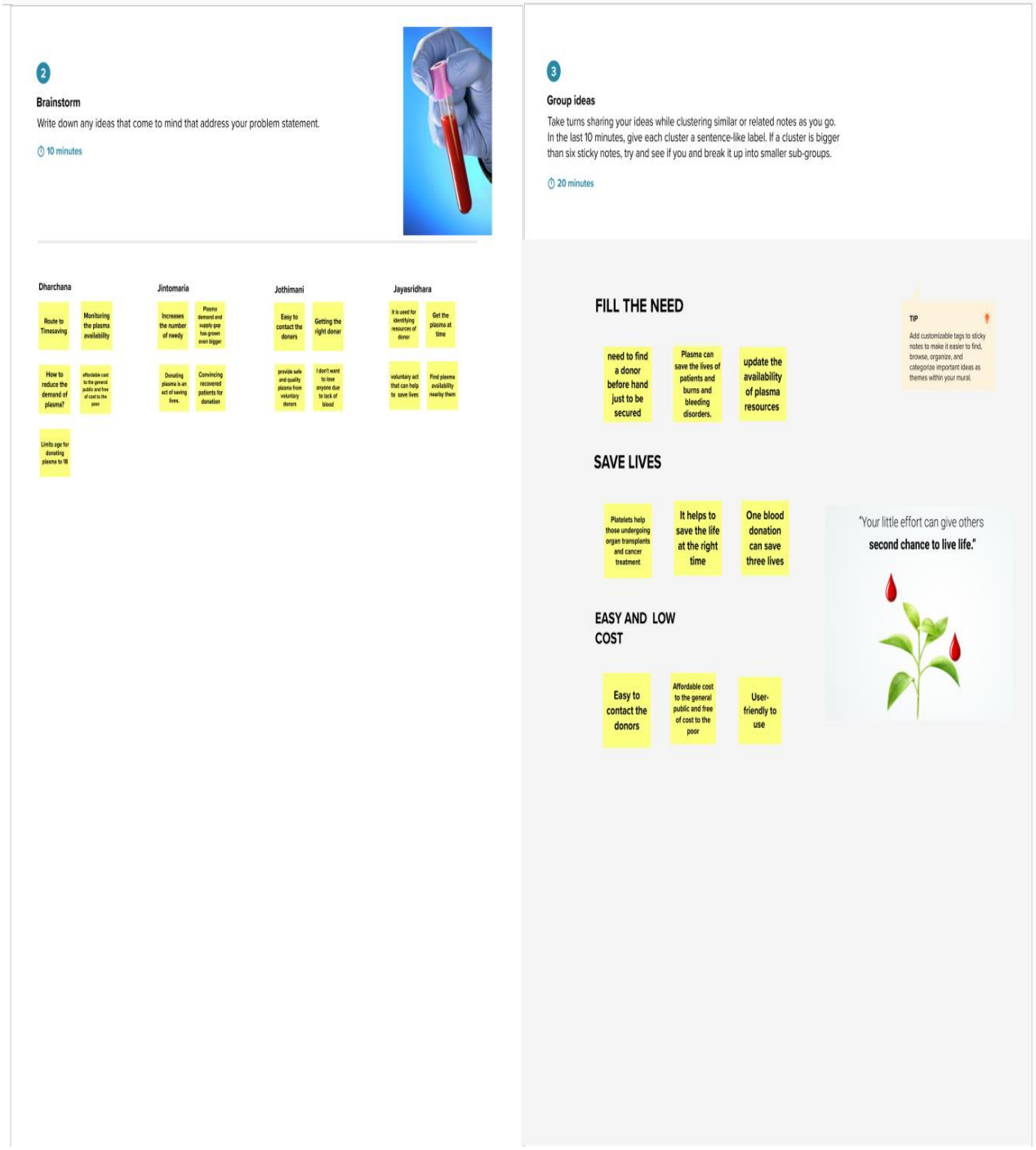
3.2 Ideation & Brainstorming

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Step-1: Team Gathering, Collaboration and Select the Problem Statement



Step-2: Brainstorm, Idea Listing and Grouping



Step-3: Idea Prioritization

3.3 PROPOSED SOLUTION

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.

S. No .	Parameter	Description
1.	Problem Statement (Problem to be solved)	No proper communication channel to notify donor about the Plasma donotion requirement. Major problem is availablity of donor is rectify using application .
2.	Idea / Solution description	Application based plasma donor is needed to address these issues and problem. Easy to contact the donor.
3.	Novelty / Uniqueness	Update the availability of plasma resources. Send request and contact us .Solve all these problem this online “PLASMA DONOR APPLICTION”
4.	Social Impact / Customer Satisfaction	It is a route for identifying the donor. Get information about all group campaigns. User friendly.
5.	Business Model (Revenue Model)	Demand and other stuffs of needer . admin will manage to contact that rare donor. Needer will be able to see the stock of various blood group.
6.	Scalability of the Solution	Affordable cost to the gerenal public and free of cost .Easy to contact us.

3.4PROBLEM SOLUTION FIT

4. REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENTS

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	**Access Website**	Software operator should be capable to access web-application through either an application browser or similar on the pc.
FR-2	**Software operator Registration**	The software operator should be able to register through the web-application.The donor software operator must provide user name,gender,blood/plasma group,location,contact.
FR-3	**Login/logout/update details**	The login information will be stored on the database for future use.
FR-4	**Search for donor**	Search result can be viewed in a list.Each element in the list represents a specific donor with the donor details.
FR-5	**View request**	The plasma bank should be able to view received request and then respond to them.
FR-6	**View distribution details**	The plasma bank should be able to view the status of the distribution details.

4.2 NON-FUNCTIONAL REQUIREMENTS

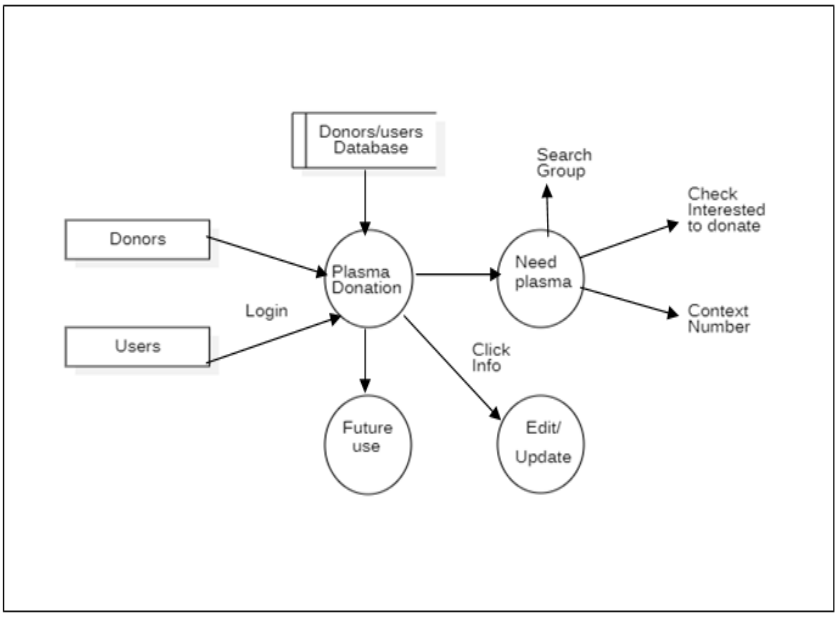
FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The plasma donor application must have a good looking user friendly interface.
NFR-2	**Security**	The plasma donor application must be secured with proper user name and passwords.

NFR-3	**Reliability**	The plasma donor application should work properly,even when faults occur.
NFR-4	**Performance**	The plasma donor application must perform well in different scenarios.
NFR-5	**Availability**	The plasma donor application must available 24 hours a day with no bandwidth issues.
NFR-6	**Scalability**	The plasma donor application should able to increase or decrease in performance and cost in response to changes in application and system processing demands.

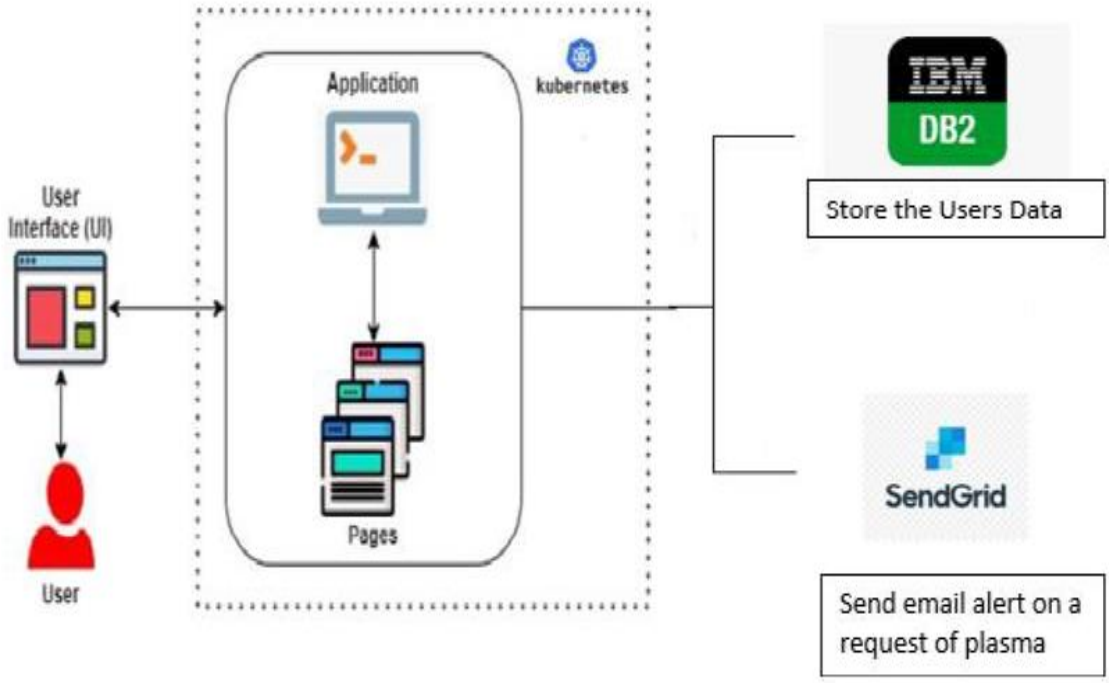
5. PROJECT DESIGN

5.1 DATA FLOW DIAGRAM

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



5.2 SOLUTION & TECHNICAL ARCHITECTURE



5.3 USER STORIES

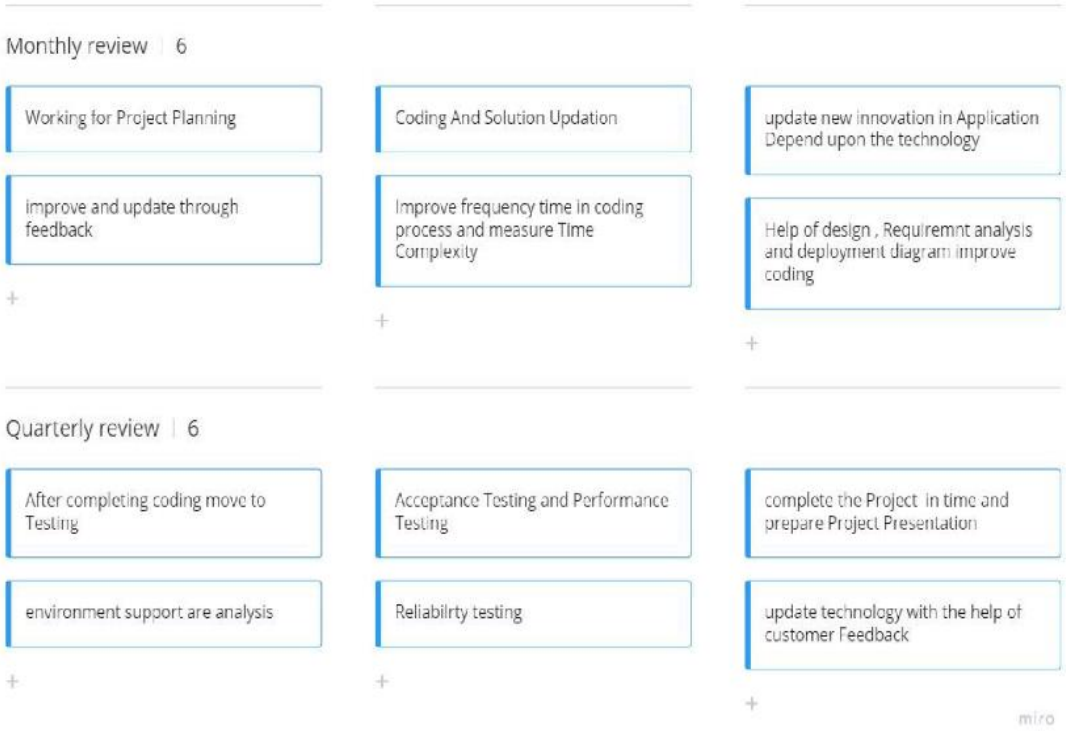
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Confirmation	USN-2	As a user, I will receive confirmation email once I	I can receive confirmation email & click	High	Sprint-1

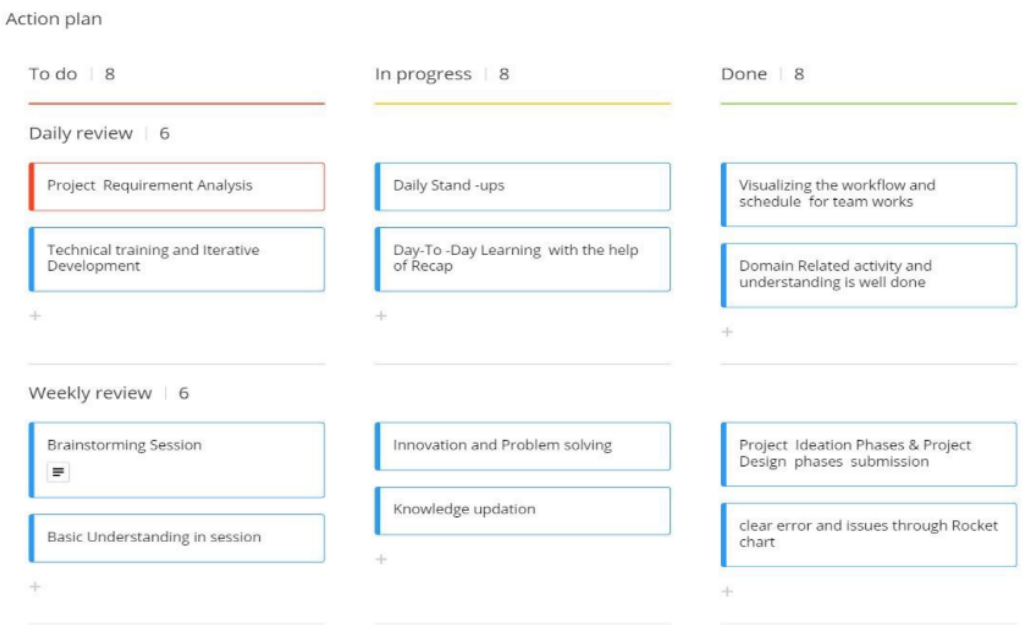
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
			have registered for the application	confirm		
	Access application	USN-3	As a user, I can register for the application through application	I can register & access the application	Low	Sprint-2
	Registration Gmail	USN-4	As a user, I can register for the application through Gmail	I can receive successful registration Gmail	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can enter into application successfully	High	Sprint-1
Customer (Web user)	Access Website	USN-6	Capable to access web application through an browser	I can access web-application	Medium	Sprint-1
	Search for donor	USN-7	Search result can be viewed in a list	I can view list represents a specific donor with donor details	High	Sprint-1
Customer Care Executive	Software Operator	USN-8	Should be able to register through application. Donor must provide username, gender, blood group, location, contact.	The user's response surprised us positively	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
	View request	USN-9	The customer care executive should be able to view received request and then respond to them	We can receive the request response immediately	High	Sprint-1
Administrator	Maintenance	USN-10	Admin can access, view, modify, update all details of the plasma donor application	Admin is the authorized person of the overall application.	High	Sprint-1

6.PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING & ESTIMATES





6.2 SPRINT DELIVERY 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 register for the application by entering my email, password, and confirming my password.	13	High	3
Sprint-2	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	13	High	3
Sprint-1	Registration through Google account	USN-3	As a user, I can register for the application through google account	8	Low	2
Sprint-3	Search for donor	USN-4	I can view list represents a specific donor withdonor details	13	Medium	2
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email &	13	High	2

			password			
Sprint-2	Dashboard	USN-6	As a user, I can log in into the application and view the dashboard for plasma information's.	8	Medium	2
Sprint-2	Notification	USN-7	As a user,I can get notifications after register for plasma donation/needy.	13	High	3
Sprint-3	Database	USN-8	Admin can access, view, modify, update all details of the plasma donor application	20	High	4
Sprint-4	Software testing And deployment	USN-9	As user want to access the application without any drawbacks we need to test the software before release.	13	High	4

7.CODING & SOLUTIONING

Source Code

Style.css

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1; padding:
    4px 10px 4px;
    margin-bottom: 0;
    font-size: 13px;
    line-height: 18px;
    color: #333333;
```

```
        text-align: center;
        text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
        vertical-align: middle;
        background-color: #f5f5f5;
        background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
        background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: linear-gradient(top, #ffffff, #e6e6e6);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
        border-color: #e6e6e6 #e6e6e6 #e6e6e6;
        border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
        border: 1px solid #e6e6e6;
        -webkit-border-radius: 4px;
        -moz-border-radius: 4px;
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }
```

```
.btn-large {
    padding: 9px 14px;
    font-size: 15px;
    line-height: normal;
    -webkit-border-radius: 5px;
    -moz-border-radius: 5px;
    border-radius: 5px;
    }

.btn:hover {
    color: #333333;
    text-decoration: none;
    background-color: #e6e6e6;
    background-position: 0 -15px;
    -webkit-transition: background-position 0.1s linear;
    -moz-transition: background-position 0.1s linear;
    -ms-transition: background-position 0.1s linear;
    -o-transition: background-position 0.1s linear;
    transition: background-position 0.1s linear;
    }

.btn-primary, .btn-primary:hover {
    text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
    color: #ffffff;
    }

.btn-primary.active { color: rgba(255, 255, 255, 0.75); }

.btn-primary {
    background-color: #4a77d4;
    background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
```

```
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

    .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }

    .btn-block { width: 100%; display:block; }

    * { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

    html { width: 100%; height:100%; overflow:hidden; }

    body {
        width: 100%;
        height:100%;
        font-family: 'Open Sans', sans-serif;
```

```
    background: #fffff;
    color: #000000;

    font-size: 18px;
    text-align:center;
    letter-spacing:1.2px;


}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
                text-align: center;
        }
.login {
    position: absolute;
    top: 70%;
    left: 50%;
    margin: -25px 0 0 -150px;
    width:400px;
    height:400px;
```

```
}

.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-align:center; float:left; padding-left:150px;}

ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
  padding-right:150px;
  overflow: hidden;
 }


li {
  float: right;
}

li a {
  display: block;
  color: white;
  text-align: center;
  padding: 0px 15px;
  text-decoration: none;
}


input {
    width: 100%;
    margin-bottom: 10px;
    background: rgba(255,255,255,255);
```

```
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }


    textarea {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
```

```
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

    select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
```

```
}
```

Login.html

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1; padding:
    4px 10px 4px;
    margin-bottom: 0;
    font-size: 13px;
    line-height: 18px;
    color: #333333;
    text-align: center;
    text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
    vertical-align: middle;
    background-color: #f5f5f5;
    background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
    background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: linear-gradient(top, #ffffff, #e6e6e6);
    background-repeat: repeat-x;
    filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
    border-color: #e6e6e6 #e6e6e6 #e6e6e6;
    border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
    border: 1px solid #e6e6e6;
    -webkit-border-radius: 4px;
    -moz-border-radius: 4px;
```

```
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

    .btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

    .btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
```

```
        }

    .btn-primary, .btn-primary:hover {
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }

    .btn-primary.active { color: rgba(255, 255, 255, 0.75); }

    .btn-primary {
        background-color: #4a77d4;
        background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

    .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }
```

```
.btn-block { width: 100%; display:block; }

* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

html { width: 100%; height:100%; overflow:hidden; }

body {
    width: 100%;
    height:100%;
    font-family: 'Open Sans', sans-serif;
    background: #fffff;
    color: #000000;

    font-size: 18px;
    text-align:center;
    letter-spacing:1.2px;


}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
```

```
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
                text-align: center;
            }
        .login {
            position: absolute;
            top: 70%;
            left: 50%;
            margin: -25px 0 0 -150px;
            width:400px;
            height:400px;
        }

        .header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-align:center; float:left; padding-left:150px;}

        ul {
          list-style-type: none;
          margin: 0;
          padding: 0;
          padding-right:150px;
          overflow: hidden;
         }


        li {
          float: right;
        }

        li a {
```

```
  display: block;
  color: white;
  text-align: center;
  padding: 0px 15px;
  text-decoration: none;
}

input {
    width: 100%;
    margin-bottom: 10px;
    background: rgba(255,255,255,255);
    border: none;
    outline: none;
    padding: 10px;
    font-size: 13px;
    color: black;
    text-shadow: black;
    border: 1px solid rgba(0,0,0,0.3);
    border-radius: 4px;
    box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
    -webkit-transition: box-shadow .5s ease;
    -moz-transition: box-shadow .5s ease;
    -o-transition: box-shadow .5s ease;
    -ms-transition: box-shadow .5s ease;
    transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }
```

```
    textarea {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

    select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
```

```
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
```

Register.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
    <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
    <!link rel="stylesheet" href="style.css">
```

```
<style>
.login{
top: 20%;
}
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
    <ul>



            <li><a class="active" href="/login">Home</a></li>
    </ul>
</div>
 <div class="login">

    <!-- Main Input For Receiving Query to our ML -->
    <form action="{{ url_for('register')}}"method="post">
     <input type="text" name="name" placeholder="Enter Your Name" required="required" style="color:black"/>
      <input type="email" name="email" placeholder="Enter Email" required="required" style="color:black"/>
            <input type="text" name="phone" placeholder="Enter 10-digit mobile number" required="required" style="color:black"/>
      <input type="city" name="city" placeholder="Enter Your City Name" required="required" style="color:black"/>
            <select name="infect">
```

```
                                    <option value="select" selected>Select COVID infection status</option>
                                    <option value="infected">Infected</option>
                                    <option value="uninfected">Uninfected</option>
                </select>
            <select name="blood">
                                    <option value="select" selected>Choose your blood group</option>
                                    <option value="O Positive">O Positive</option>
                                    <option value="A Positive">A Positive</option>
                                    <option value="B Positive">B Positive</option>
                                    <option value="AB Positive">AB Positive</option>
                                    <option value="O Negative">O Negative</option>
                                    <option value="A Negative">A Negative</option>
                                    <option value="B Negative">B Negative</option>
                                    <option value="AB Negative">AB Negative</option>
                </select>
            <input type="password" name="passw" placeholder="Enter Password" required="required" style="color:black"/>
            <button type="submit" class="btn btn-primary btn-block btn-large">Register</button>

        </form>

     <br><br>
    <div style="color:black">
     {{ pred }}</div>
```

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

Request.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
    <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
    <!link rel="stylesheet" href="style.css">

<style>
.login{
top: 20%;
}
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
```

```
        <ul>


                <li><a href="/requester">Request</a></li>
                <li><a href="/registration">Register</a></li>
                <li><a class="active" href="/login">Home</a></li>
        </ul>
    </div>
     <div class="login">
                <div>
                </div>

        <!-- Main Input For Receiving Query to our ML -->
       <form action="{{ url_for('requested')}}"method="post">
                <select name="bloodgrp">
                                <option value="select" selected>Choose your blood group</option>
                                <option value="O Positive">O Positive</option>
                                <option value="A Positive">A Positive</option>
                                <option value="B Positive">B Positive</option>
                                <option value="AB Positive">AB Positive</option>
                                <option value="O Negative">O Negative</option>
                                <option value="A Negative">A Negative</option>
                                <option value="B Negative">B Negative</option>
                                <option value="AB Negative">AB Negative</option>
                </select>
```

```
                <textarea rows="4" placeholder="Enter the address" required="required" style="color:black" name="address"></textarea>
                <!input type="textarea" name="address" rows="4" placeholder="Enter the address" required="required" style="color:black" />
            <button type="submit" class="btn btn-primary btn-block btn-large">Submit the request</button>

        </form>
     <br><br>
    <div style="color:black">
     {{ pred }}</div>
     </div>
    </body>
    </html>
```

Stats.html

```
    <!DOCTYPE html>
    <html lang="en">
    <head>
      <title>Plasma Donar App</title>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
      <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
      <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
```

```
  <!link rel="stylesheet" href="style.css">
</head>
<style>
        .big{
        top:70;
        background-color:white;
        margin-top:80px;
        margin-left:550px;
        margin-right:550px;
        height:200px;
        border-radius: 25px;
        border: 3px solid #4a77d4;
        box-shadow: 6px 8px 4px grey;
        text-align:center;
        }
        .row{

        height:150px;

        }
        .col{
                margin:10px;
                margin-left:50px;
                margin-right:50px;
                border-radius: 25px;
                border: 1px solid #4a77d4;
                box-shadow: 0px 8px 4px grey;
                text-align:center;
        }
        .ext{
        margin-top:25px;
```

```
                line-height:40px;
                }
                .ext1{
                margin-top:40px;
                line-height:50px;
                font-size:25px;
                color:#f95450;
                }

        </style>
        <body>

        <div class="container-fluid">
        <div class="header">
        <div><b>Plasma Donar App</b></div>
        <ul>
                <li><a href="/requester">Request</a></li>
                <li><a class="active" href="/login">Home</a></li>
            </ul>
        </div>
          <br>
          <div class="big">
            <div class="box">
                <div                                                    class="ext1"><font
size="20px">{{b}}</font><br><b>Donors</b></div>
            </div>
          </div>
          <br>
          <div class="row">
            <div class="col" >
                <div class="ext">{{b1}}<br><b>O Positive</b></div>
```

```
    </div>
   <div class="col" >
            <div class="ext">{{b2}}<br><b>A Positive</b></div>
    </div>
   <div class="col" >
            <div class="ext">{{b3}}<br><b>B Positive</b></div>
    </div>
   <div class="col" >
            <div class="ext">{{b4}}<br><b>AB Positive</b></div>
    </div>
  </div>
  <br>
  <div class="row">
   <div class="col" >
            <div class="ext">{{b5}}<br><b>O Negative</b></div>
    </div>
   <div class="col" >
            <div class="ext">{{b6}}<br><b>A Negative</b></div>
    </div>
   <div class="col" >
            <div class="ext">{{b7}}<br><b>B Negative</b></div>
    </div>
   <div class="col" >
            <div class="ext">{{b8}}<br><b>AB Negative</b></div>
    </div>
  </div>
</div>
</body>
</html>
```

Style.css

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
```

```
.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1; padding:
    4px 10px 4px;
    margin-bottom: 0;
    font-size: 13px;
    line-height: 18px;
    color: #333333;
    text-align: center;
    text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
    vertical-align: middle;
    background-color: #f5f5f5;
    background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
    background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
    background-image: linear-gradient(top, #ffffff, #e6e6e6);
    background-repeat: repeat-x;
    filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
    border-color: #e6e6e6 #e6e6e6 #e6e6e6;
    border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
    border: 1px solid #e6e6e6;
    -webkit-border-radius: 4px;
    -moz-border-radius: 4px;
    border-radius: 4px;
    -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
```

```
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

    .btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

    .btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
        }

    .btn-primary, .btn-primary:hover {
```

```
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }

    .btn-primary.active { color: rgba(255, 255, 255, 0.75); }

    .btn-primary {
        background-color: #4a77d4;
        background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

    .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }

    .btn-block { width: 100%; display:block; }
```

```
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

html { width: 100%; height:100%; overflow:hidden; }

body {
    width: 100%;
    height:100%;
    font-family: 'Open Sans', sans-serif;
    background: #fffff;
    color: #000000;

    font-size: 18px;
    text-align:center;
    letter-spacing:1.2px;


}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
```

```
                text-align: center;
            }
    .login {
        position: absolute;
        top: 70%;
        left: 50%;
        margin: -25px 0 0 -150px;
        width:400px;
        height:400px;
    }

    .header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px;
text-align:center; float:left; padding-left:150px;}

    ul {
      list-style-type: none;
      margin: 0;
      padding: 0;
      padding-right:150px;
      overflow: hidden;
     }


    li {
      float: right;
    }

    li a {
      display: block;
      color: white;
      text-align: center;
```

```
  padding: 0px 15px;
  text-decoration: none;
}

input {
    width: 100%;
    margin-bottom: 10px;
    background: rgba(255,255,255,255);
    border: none;
    outline: none;
    padding: 10px;
    font-size: 13px;
    color: black;
    text-shadow: black;
    border: 1px solid rgba(0,0,0,0.3);
    border-radius: 4px;
    box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
    -webkit-transition: box-shadow .5s ease;
    -moz-transition: box-shadow .5s ease;
    -o-transition: box-shadow .5s ease;
    -ms-transition: box-shadow .5s ease;
    transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

select {
    width: 100%;
```

```
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
```

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import json
app = Flask(__name__)

#conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLServerCertificate=Certificate.crt;UID=qtr94996;PWD=iWiMenz5pZaK5xVQ",",")

@app.route('/registration')
```

```
def home():
    return render_template('register.html')


@app.route('/register',methods=['POST'])
def register():
    x = [x for x in request.form.values()]
    print(x)
    name=x[0]
    email=x[1]
    phone=x[2]
    city=x[3]
    infect=x[4]
    blood=x[5]
    password=x[6]
    sql = "SELECT * FROM user WHERE email =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return render_template('register.html', pred="You are already a member, please login using your details")
    else:
        insert_sql = "INSERT INTO  user VALUES (?, ?, ?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm_db.bind_param(prep_stmt, 2, email)
        ibm_db.bind_param(prep_stmt, 3, phone)
        ibm_db.bind_param(prep_stmt, 4, city)
        ibm_db.bind_param(prep_stmt, 5, infect)
```

```
        ibm_db.bind_param(prep_stmt, 6, blood)
        ibm_db.bind_param(prep_stmt, 7, password)
        ibm_db.execute(prep_stmt)
        return render_template('register.html', pred="Registration Successful, please login using your details")
```

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

@app.route('/loginpage',methods=['POST'])
def loginpage():
    user = request.form['user']
    passw = request.form['passw']
    sql = "SELECT * FROM user WHERE email =? AND password=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,user)
    ibm_db.bind_param(stmt,2,passw)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    print(user,passw)
    if account:
        return redirect(url_for('stats'))
    else:
        return render_template('login.html', pred="Login unsuccessful. Incorrect username / password !")
```

```
@app.route('/index')
def index():
    return render_template('index.html')

@app.route('/stats')
def stats():
    '''sql = "SELECT blood FROM user group by blood"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    count = ibm_db.fetch_assoc(stmt)
    print(count)'''
    return
render_template('stats.html',b=5,b1=2,b2=3,b3=4,b4=2,b5=1,b6=2,b7=1,b8=1)

@app.route('/requester')
def requester():
    return render_template('request.html')


@app.route('/requested',methods=['POST'])
def requested():
    bloodgrp = request.form['bloodgrp']
    address = request.form['address']
    print(address)
    sql = "SELECT * FROM user WHERE blood=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,bloodgrp)
    ibm_db.execute(stmt)
    data = ibm_db.fetch_assoc(stmt)
    msg = "Need Plasma of your blood group for: "+address
```

```
        while data != False:
            print ("The Phone is : ", data["PHONE"])

url="https://www.fast2sms.com/dev/bulk?authorization=xCXuwWTzyjOD2ARd1EngbH3a7tKIq5PklJ8YSf0Lh4FQZecs9iNI1dSvuqprxFwCKYJXA5amQkBE36Rl&sender_id=FSTSMS&message="+msg+"&language=english&route=p&numbers="+str(data["PHONE"])
            result=requests.request("GET",url)
            print(result)
            data = ibm_db.fetch_assoc(stmt)
        return render_template('request.html', pred="Your request is sent to the concerned people.")


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

8.TESTING

USER ACCEPTANCE TEST

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and openissues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

2.Test Case Analysis

This report shows the number of test cases that have passed, failed, anduntested.

Section	Total Cases	Not Tested	Fail	Pass
Security	1	0	0	1
Outsource Shipping	0	0	0	0
Exception Reporting	8	0	0	9
Final Report Output	7	0	0	7

9. RESULT

9.1 PERFORMANCE METRICS

Formal code metrics - Such as Lines of Code (LOC), code complexity, Instruction Path Length, etc. In modern development environments, these are considered less useful.

Developer productivity metrics—Such as active days, assignment scope, efficiency and code churn. These metrics can help you understand how much time and work developers are investing in a software project.

Agile process metrics—Such as lead time, cycle time and velocity. They measure the progress of a dev team in producing working, shipping-quality software features.

Operational metrics—Such as Mean Time Between Failures (MTBF) and Mean Time to Recover (MTTR). This checks how software is running in production and how effective operations staff are at maintaining it.

Test metrics—Such as code coverage, percent of automated tests, and defects in production. This measures how comprehensively a system is tested, which should be correlated with software quality.

Customer satisfaction—Such as Net Promoter Score (NPS), Customer Effort Score (CES) and Customer Satisfaction Score (CSAT). The ultimate measurement

of how customers experience the software and their interaction with the software vendor.

10.ADVANDAGES AND DISADVANDAGES

ADVANDAGES

- **Speed**: This website is fast and offers great accuracy as compared tomanual registered keeping.
- **Maintenance**: Less maintenance is required
- **User Friendly**: It is very easy to use and understand. It is easily workableand accessible for everyone.
- **Fast Results**: It would help you to provide plasma donors easily dependingupon the availability of it.

DISADVANDAGES

- **Internet**: It would require an internet connection for the working of thewebsite.
- **Auto-Verification**: It cannot automatically verify the genuine users.

11. CONCLUSION

This app can be considered as a contribution of its developers towards the medical unit of the country as well as towards humanity.

As an initiative taken by the government which motivates Students for providing Support for the pandemic. The Plasma Donation App would help Donors, as well as patients in need of plasma .It would allow you to search Plasma Donors within your city and having a specific Blood Group. People who have fully recovered from COVID-19 have antibodies in their plasma that can attack the virus. This convalescent plasma is being evaluated as a treatment for patients with serious or

immediately life-threatening COVID-19 infections, or those judged by a healthcare provider to be at high risk of progression to severe or life-threatening disease.

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. Using elastic load balancer, it helps to handle multiple requests at the same time which will maintain the uptime of the website with negligible downtime.

13.APPENDIX

SOURCE CODE:

Source Code

Style.c**ss**

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1; padding:
    4px 10px 4px;
    margin-bottom: 0;
    font-size: 13px;
    line-height: 18px;
    color: #333333;
    text-align: center;
    text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
    vertical-align: middle;
    background-color: #f5f5f5;
```

```
        background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
        background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: linear-gradient(top, #ffffff, #e6e6e6);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
        border-color: #e6e6e6 #e6e6e6 #e6e6e6;
        border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
        border: 1px solid #e6e6e6;
        -webkit-border-radius: 4px;
        -moz-border-radius: 4px;
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

    .btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
```

```
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

    .btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
        }

    .btn-primary, .btn-primary:hover {
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }

    .btn-primary.active { color: rgba(255, 255, 255, 0.75); }

    .btn-primary {
        background-color: #4a77d4;
        background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de),
to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
```

```
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
        background-repeat: repeat-x;
        filter:  progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

    .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled,
.btn-primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }

    .btn-block { width: 100%; display:block; }

    * { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-
sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

    html { width: 100%; height:100%; overflow:hidden; }

    body {
        width: 100%;
        height:100%;
        font-family: 'Open Sans', sans-serif;
        background: #fffff;
        color: #000000;

        font-size: 18px;
```

```
    text-align:center;
    letter-spacing:1.2px;


}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
                text-align: center;
        }
.login {
    position: absolute;
    top: 70%;
    left: 50%;
    margin: -25px 0 0 -150px;
    width:400px;
    height:400px;
}

.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px;
text-align:center; float:left; padding-left:150px;}
```

```
ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
  padding-right:150px;
  overflow: hidden;
 }


li {
  float: right;
}

li a {
  display: block;
  color: white;
  text-align: center;
  padding: 0px 15px;
  text-decoration: none;
}


input {
      width: 100%;
      margin-bottom: 10px;
      background: rgba(255,255,255,255);
      border: none;
      outline: none;
      padding: 10px;
      font-size: 13px;
```

```
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }


    textarea {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
```

```
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

    select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
```

Login.html

```
    @import url(https://fonts.googleapis.com/css?family=Open+Sans);
    .btn {
```

```
        display: inline-block;
        *display: inline;
        *zoom: 1; padding:
        4px 10px 4px;
        margin-bottom: 0;
        font-size: 13px;
        line-height: 18px;
        color: #333333;
        text-align: center;
        text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
        vertical-align: middle;
        background-color: #f5f5f5;
        background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
        background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: linear-gradient(top, #ffffff, #e6e6e6);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
        border-color: #e6e6e6 #e6e6e6 #e6e6e6;
        border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
        border: 1px solid #e6e6e6;
        -webkit-border-radius: 4px;
        -moz-border-radius: 4px;
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
```

```
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

    .btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

    .btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
        }

    .btn-primary, .btn-primary:hover {
```

```
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }

    .btn-primary.active { color: rgba(255, 255, 255, 0.75); }

    .btn-primary {
        background-color: #4a77d4;
        background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

    .btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }

    .btn-block { width: 100%; display:block; }
```

```
* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

html { width: 100%; height:100%; overflow:hidden; }

body {
    width: 100%;
    height:100%;
    font-family: 'Open Sans', sans-serif;
    background: #fffff;
    color: #000000;

    font-size: 18px;
    text-align:center;
    letter-spacing:1.2px;


}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
```

```
                text-align: center;
            }
    .login {
        position: absolute;
        top: 70%;
        left: 50%;
        margin: -25px 0 0 -150px;
        width:400px;
        height:400px;
    }

    .header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px;
text-align:center; float:left; padding-left:150px;}

    ul {
      list-style-type: none;
      margin: 0;
      padding: 0;
      padding-right:150px;
      overflow: hidden;
     }


    li {
      float: right;
    }

    li a {
      display: block;
      color: white;
      text-align: center;
```

```
  padding: 0px 15px;
  text-decoration: none;
}

input {
    width: 100%;
    margin-bottom: 10px;
    background: rgba(255,255,255,255);
    border: none;
    outline: none;
    padding: 10px;
    font-size: 13px;
    color: black;
    text-shadow: black;
    border: 1px solid rgba(0,0,0,0.3);
    border-radius: 4px;
    box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
    -webkit-transition: box-shadow .5s ease;
    -moz-transition: box-shadow .5s ease;
    -o-transition: box-shadow .5s ease;
    -ms-transition: box-shadow .5s ease;
    transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

textarea {
    width: 100%;
```

```
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    textarea:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }

    select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
```

```
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
```

Register.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
    <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
    <!link rel="stylesheet" href="style.css">

<style>
.login{
top: 20%;
```

```
}
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
    <ul>



            <li><a class="active" href="/login">Home</a></li>
    </ul>
</div>
 <div class="login">

    <!-- Main Input For Receiving Query to our ML -->
    <form action="{{ url_for('register')}}"method="post">
     <input type="text" name="name" placeholder="Enter Your Name" required="required" style="color:black"/>
      <input type="email" name="email" placeholder="Enter Email" required="required" style="color:black"/>
            <input type="text" name="phone" placeholder="Enter 10-digit mobile number" required="required" style="color:black"/>
      <input type="city" name="city" placeholder="Enter Your City Name" required="required" style="color:black"/>
            <select name="infect">

                                <option value="select" selected>Select COVID infection status</option>
                                <option value="infected">Infected</option>
```

```
                                    <option value="uninfected">Uninfected</option>
                </select>
            <select name="blood">
                                    <option value="select" selected>Choose your blood group</option>
                                    <option value="O Positive">O Positive</option>
                                    <option value="A Positive">A Positive</option>
                                    <option value="B Positive">B Positive</option>
                                    <option value="AB Positive">AB Positive</option>
                                    <option value="O Negative">O Negative</option>
                                    <option value="A Negative">A Negative</option>
                                    <option value="B Negative">B Negative</option>
                                    <option value="AB Negative">AB Negative</option>
                </select>
            <input type="password" name="passw" placeholder="Enter Password" required="required" style="color:black"/>
            <button type="submit" class="btn btn-primary btn-block btn-large">Register</button>

        </form>

     <br><br>
    <div style="color:black">
     {{ pred }}</div>
     </div>
    </body>
    </html>
```

Request.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
    <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
    <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300' rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
    <!link rel="stylesheet" href="style.css">

<style>
.login{
top: 20%;
}
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
    <ul>
```

```
                <li><a href="/requester">Request</a></li>
                <li><a href="/registration">Register</a></li>
                <li><a class="active" href="/login">Home</a></li>
            </ul>
        </div>
        <div class="login">
                <div>
                </div>

            <!-- Main Input For Receiving Query to our ML -->
            <form action="{{ url_for('requested')}}"method="post">
                <select name="bloodgrp">
                                    <option value="select" selected>Choose your blood group</option>
                                    <option value="O Positive">O Positive</option>
                                    <option value="A Positive">A Positive</option>
                                    <option value="B Positive">B Positive</option>
                                    <option value="AB Positive">AB Positive</option>
                                    <option value="O Negative">O Negative</option>
                                    <option value="A Negative">A Negative</option>
                                    <option value="B Negative">B Negative</option>
                                    <option value="AB Negative">AB Negative</option>
                </select>
                <textarea rows="4" placeholder="Enter the address" required="required" style="color:black" name="address"></textarea>
                <!input type="textarea" name="address" rows="4" placeholder="Enter the address" required="required" style="color:black" />
```

```
        <button type="submit" class="btn btn-primary btn-block btn-large">Submit the request</button>

      </form>
    <br><br>
    <div style="color:black">
    {{ pred }}</div>
    </div>
    </body>
    </html>
```

Stats.html

```
    <!DOCTYPE html>
    <html lang="en">
    <head>
      <title>Plasma Donar App</title>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
      <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
      <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
      <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
      <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
      <!link rel="stylesheet" href="style.css">
    </head>
    <style>
            .big{
```

```
top:70;
background-color:white;
margin-top:80px;
margin-left:550px;
margin-right:550px;
height:200px;
border-radius: 25px;
border: 3px solid #4a77d4;
box-shadow: 6px 8px 4px grey;
text-align:center;
}
.row{

height:150px;

}
.col{
        margin:10px;
        margin-left:50px;
        margin-right:50px;
        border-radius: 25px;
        border: 1px solid #4a77d4;
        box-shadow: 0px 8px 4px grey;
        text-align:center;
}
.ext{
margin-top:25px;
line-height:40px;
}
.ext1{
margin-top:40px;
```

```
                line-height:50px;
                font-size:25px;
                color:#f95450;
                }

    </style>
    <body>

    <div class="container-fluid">
    <div class="header">
    <div><b>Plasma Donar App</b></div>
    <ul>
                <li><a href="/requester">Request</a></li>
                <li><a class="active" href="/login">Home</a></li>
        </ul>
    </div>
      <br>
      <div class="big">
        <div class="box">
                <div                                                    class="ext1"><font
size="20px">{{b}}</font><br><b>Donors</b></div>
          </div>
      </div>
      <br>
      <div class="row">
        <div class="col" >
                <div class="ext">{{b1}}<br><b>O Positive</b></div>
          </div>
        <div class="col" >
                <div class="ext">{{b2}}<br><b>A Positive</b></div>
          </div>
```

```
  <div class="col" >
            <div class="ext">{{b3}}<br><b>B Positive</b></div>
   </div>
  <div class="col" >
            <div class="ext">{{b4}}<br><b>AB Positive</b></div>
   </div>
 </div>
 <br>
 <div class="row">
  <div class="col" >
            <div class="ext">{{b5}}<br><b>O Negative</b></div>
   </div>
  <div class="col" >
            <div class="ext">{{b6}}<br><b>A Negative</b></div>
   </div>
  <div class="col" >
            <div class="ext">{{b7}}<br><b>B Negative</b></div>
   </div>
  <div class="col" >
            <div class="ext">{{b8}}<br><b>AB Negative</b></div>
   </div>
 </div>
</div>
</body>
</html>
```

Style.css

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
    display: inline-block;
    *display: inline;
    *zoom: 1; padding:
```

```
        4px 10px 4px;
        margin-bottom: 0;
        font-size: 13px;
        line-height: 18px;
        color: #333333;
        text-align: center;
        text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
        vertical-align: middle;
        background-color: #f5f5f5;
        background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
        background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
        background-image: linear-gradient(top, #ffffff, #e6e6e6);
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff, endColorstr=#e6e6e6, GradientType=0);
        border-color: #e6e6e6 #e6e6e6 #e6e6e6;
        border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
        border: 1px solid #e6e6e6;
        -webkit-border-radius: 4px;
        -moz-border-radius: 4px;
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
```

```
        }

    .btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

    .btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

    .btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
        }

    .btn-primary, .btn-primary:hover {
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }
```

```
.btn-primary.active { color: rgba(255, 255, 255, 0.75); }

.btn-primary {
    background-color: #4a77d4;
    background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
    background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
    background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
    background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
    background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
    background-image: linear-gradient(top, #6eb6de, #4a77d4);
    background-repeat: repeat-x;
    filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de, endColorstr=#4a77d4, GradientType=0);
    border: 1px solid #3762bc;
    text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
    box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
    }

.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-primary[disabled] {
    filter: none;
    background-color: #4a77d4;
    }

.btn-block { width: 100%; display:block; }

* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-sizing:border-box; box-sizing:border-box; }

html { width: 100%; height:100%; overflow:hidden; }
```

```
body {
    width: 100%;
    height:100%;
    font-family: 'Open Sans', sans-serif;
    background: #fffff;
    color: #000000;

    font-size: 18px;
    text-align:center;
    letter-spacing:1.2px;



}
.header {
                top:0;
                margin:0px;
                left: 0px;
                right: 0px;
                position: fixed;
                background: #4a77d4;
                color: white;
                box-shadow: 0px 8px 4px grey;
                overflow: hidden;
                padding: 15px;
                font-size: 1.5vw;
                width: 100%;
                text-align: center;
        }
.login {
    position: absolute;
```

```
        top: 70%;
        left: 50%;
        margin: -25px 0 0 -150px;
        width:400px;
        height:400px;
    }

    .header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-align:center; float:left; padding-left:150px;}

    ul {
      list-style-type: none;
      margin: 0;
      padding: 0;
      padding-right:150px;
      overflow: hidden;
     }


    li {
      float: right;
    }

    li a {
      display: block;
      color: white;
      text-align: center;
      padding: 0px 15px;
      text-decoration: none;
    }
```

```
    input {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
    input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px rgba(255,255,255,0.2); }


    select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
```

```
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
    }
```

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import json
app = Flask(__name__)

#conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLServerCertificate=Certificate.crt;UID=qtr94996;PWD=iWiMenz5pZaK5xVQ",",")

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

@app.route('/register',methods=['POST'])
```

```
def register():
    x = [x for x in request.form.values()]
    print(x)
    name=x[0]
    email=x[1]
    phone=x[2]
    city=x[3]
    infect=x[4]
    blood=x[5]
    password=x[6]
    sql = "SELECT * FROM user WHERE email =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return render_template('register.html', pred="You are already a member, please login using your details")
    else:
        insert_sql = "INSERT INTO  user VALUES (?, ?, ?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm_db.bind_param(prep_stmt, 2, email)
        ibm_db.bind_param(prep_stmt, 3, phone)
        ibm_db.bind_param(prep_stmt, 4, city)
        ibm_db.bind_param(prep_stmt, 5, infect)
        ibm_db.bind_param(prep_stmt, 6, blood)
        ibm_db.bind_param(prep_stmt, 7, password)
        ibm_db.execute(prep_stmt)
```

```
        return render_template('register.html', pred="Registration Successful, please login using your details")



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

@app.route('/loginpage',methods=['POST'])
def loginpage():
    user = request.form['user']
    passw = request.form['passw']
    sql = "SELECT * FROM user WHERE email =? AND password=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,user)
    ibm_db.bind_param(stmt,2,passw)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    print(user,passw)
    if account:
        return redirect(url_for('stats'))
    else:
        return render_template('login.html', pred="Login unsuccessful. Incorrect username / password !")

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

```
    return render_template('index.html')

@app.route('/stats')
def stats():
    '''sql = "SELECT blood FROM user group by blood"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    count = ibm_db.fetch_assoc(stmt)
    print(count)'''
    return
render_template('stats.html',b=5,b1=2,b2=3,b3=4,b4=2,b5=1,b6=2,b7=1,b8=1)

@app.route('/requester')
def requester():
    return render_template('request.html')


@app.route('/requested',methods=['POST'])
def requested():
    bloodgrp = request.form['bloodgrp']
    address = request.form['address']
    print(address)
    sql = "SELECT * FROM user WHERE blood=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,bloodgrp)
    ibm_db.execute(stmt)
    data = ibm_db.fetch_assoc(stmt)
    msg = "Need Plasma of your blood group for: "+address
    while data != False:
        print ("The Phone is : ", data["PHONE"])
```

```
url="https://www.fast2sms.com/dev/bulk?authorization=xCXuwWTzyjOD2ARd1EngbH3a7tKIq5PklJ8YSf0Lh4FQZecs9iNI1dSvuqprxFwCKYJXA5amQkBE36Rl&sender_id=FSTSMS&message="+msg+"&language=english&route=p&numbers="+str(data["PHONE"])
            result=requests.request("GET",url)
            print(result)
            data = ibm_db.fetch_assoc(stmt)
        return render_template('request.html', pred="Your request is sent to the concerned people.")


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

GitHub & Project Demo Link

Github: https://github.com/IBM-EPBL/IBM-Project-38355-1660378857

Demo:https://drive.google.com/file/d/1BEXQM-S0S94G9y3D2gGhhYg2grv-ODS4/view?usp=drivesdk