PLASMA DONOR APPLICATION



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1.INTRODUCTION

1.1 Project overview

The main objective of this project is to provide the recipient with a donor who is in good form with no health ailments to donate blood of the corresponding blood group. This project provides quick access to donors for an immediate requirement of blood. In case of an emergency/surgery, blood procurement is always a major problem which consumes a lot of time. This helps serve the major time-lapse in which a life can be saved!

1.2 Purpose

Blood plasma donations are used for slightly more specific purposes than a general blood donation. The most common uses of plasma donations include individuals who have experienced a severe trauma, burn or shock, adults or children with cancer, and people with liver or clotting factor disorders.

2.Litreature survey:

2.1. Existing solution:

- Cannot Upload and Download the latest updates.
- No use of Web Services and R emoting.
- Risk of mismanagement and of data when the project is under development.
- Security.
- proper coordination between different Applications and Users.
- Fewer Users Friendly.

2.2. References:

- [1] X. Chen, "Commercial plasma donation and individual health in impoverished rural china," Health economics review, vol. 4,no. 1, p. 30, 2014.
- [2] "Blood safety and availability," https://www.who.int/news-room/fact-sheets/detail/blood-safety-and-availability,(Accessed on 09/05/2020).
- [3] T. Alana and B. Alsaeed, "Use of social media in the blood donation process in saudi arabia," Journal of Blood Medicine, vol. 10, p. 417, 2019.
- [4] T. Changchun, K. Wang mo, U. Changchun, P. Gem, P. R.Dhungyel et al., "Need of medium for nding blood donor in Bhutan," Asian Journal For Convergence In Technology(AJCT), 2018.
- [5] V. K. Datamation and H. El-Okla, "Blood r: blood donor and requester mobile application," M health, vol. 3, 2017.
- [6] M. S. Hosanna, N. Das, M. K. H. Patwary, and M. Al-Hasan, "Finding the nearest blood donors using Dijkstra al-algorithm," SISFORMA: Journal of Information Systems (e-Journal), vol. 5, no. 2, pp. 40–44, 2019.
- [7] H. D. D as, R. Ahmed, N. Smrity, and L. Islam, "Bdonor:A geo-localized blood donor management system using mobile crowdsourcing," in 2020 IEEE 9th International Conference on Communication Systems and Network Technologies (CSNT).IEEE, 2020, pp. 313–317.
- [8] S.-Q. Wang and D.-M. Zhu, "Research on selecting initial points for k-means clustering," in 2008 International Conference on Machine Learning and Cybernetics, vol. 5. IEEE, 2008, pp.2673–2677.

- [9] S. Na, L. Xumin, and G. Yong, "Research on k-means clustering algorithm: An improved k-means clustering algorithm," in 2010 Third International Symposium on intelligent information technology and security informatics. IEEE, 2010, pp. 63–67. [10] K. Sapphire and P. Baby, "Agglomerate hierarchical clustearing algorithm-a," International Journal of Scienti®c and Research Publications, vol. 83, p. 83, 2013.
- [11] D. Müllner, "Modern hierarchical, agglomeration clustering al-algorithms," arXiv pre print arXiv:1109.2378, 2011.
- [12] "Open cage geocoder." [Online]. Available: https://opencagedata.com/.

2.3. Problem statement definition:

We are designing a system which contains all the information regarding blood donation camps ongoing in a particular area so that people who want to donate blood will get information regarding these camps.

3.IDEATION AND PROPOSED SOLUTION:

3.1. Empathy map

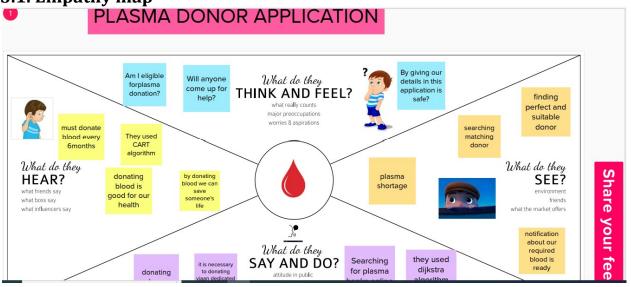
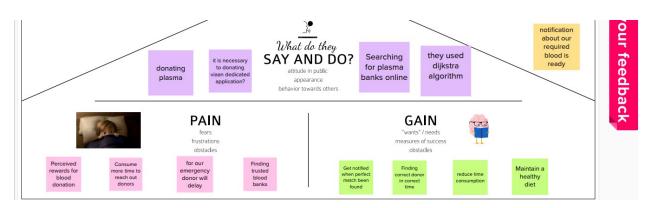


Figure 3.1



Figyre 3.2

3.2.Ideation & Brainstorming

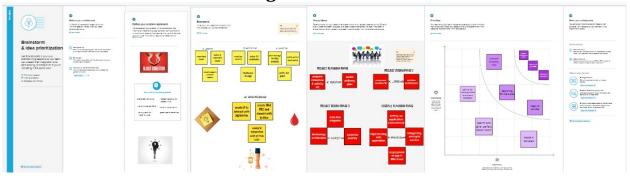


figure 3.2.1

3.3 Proposed solution

PROBLEM SOLUTION PROBLEM SOLUTION

Category: Cloud App Development

Skills Required:

Storage, Python-IBM Cloud, HTML, Javascript, IBM Cloud Object

Flask, Kubernetes, Docker, IBM DB2, IBM Container Registry

Description:

During the COVID 19 crisis, the requirement of plasma became During the

COVID 19 crisis, the requirement of plasma a high priority and the donor

count has become low. Saving the by notifying the donor information and

helping the needy by notifying the current donors list, would be a helping

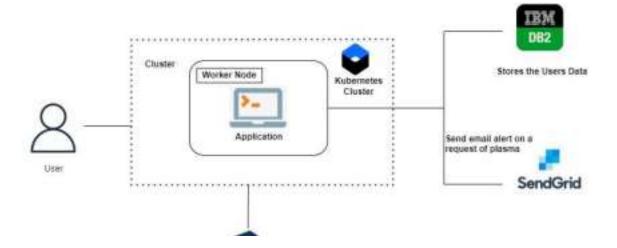
hand. In regard to the current donors list, would be a helping hand. In regard

to the problem faced, an application is to be built which would take problem

faced, an application is to be built which would take the donor details,,, store

them and inform them upon a request the donor details, store them.

Technical Architecture:



Project Workflow:

- 1. The user interacts with the application.
- 2. Registers by giving the details as a donor.
- 3. The database will have all the details and if a user posts a request then the concerned blood group donors will get notified about it.

3.4 PROPOSED SOLUTION FIT

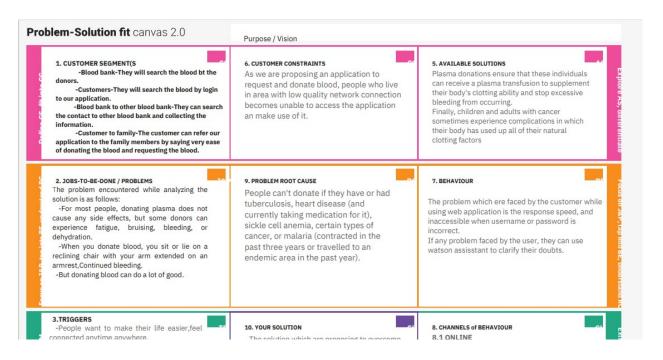


Figure 3.4.1

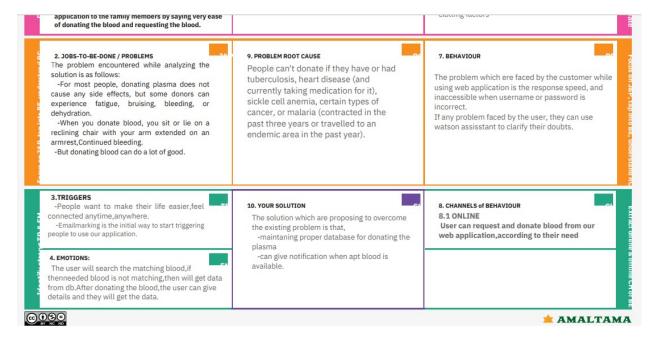


Figure 3.4.2

4. REQUIREMENT ANALYSIS

4.1Functional requirement

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|------------------------------------|
| FR-1 | User Registration | Registration through Form |
| | | Registration through Gmail |
| | | Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email |
| | | Confirmation via OTP |
| FR-3 | Html, javascript, flask | Through web application |
| FR-4 | Login portal | Through the application |
| FR-5 | Donor history | Through the database |
| FR-6 | Donors list based on their | Through the database |
| | locality | |

Figure 4.1.1

4.2Non Functional requirement

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | User can donate and request blood. |
| NFR-2 | Security | User details can be safe |
| NFR-3 | Reliability | Can access from anywhere at any time. |
| NFR-4 | Performance | Can request and donate blood at anytime through this application |
| NFR-5 | Availability | In blood bank all blood groups are available |
| NFR-6 | Scalability | More facilities can be added like more than ten database. |

Figure 4.2.1

5.PROJECT DESIGN

5.1Data Flow Diagrams

The content of plasma donor DFD level 1 must be single process node from the context diagram and is broken into sub process.

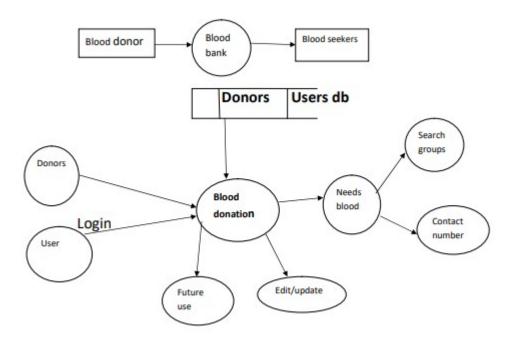


Figure 5.1.1

DFD Level 0:

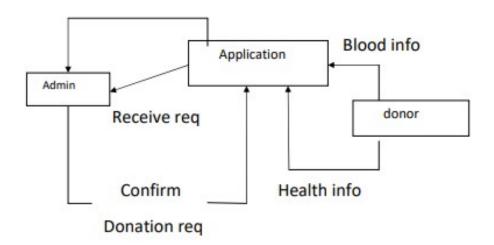


Figure 5.1.2

DFD Level 1:

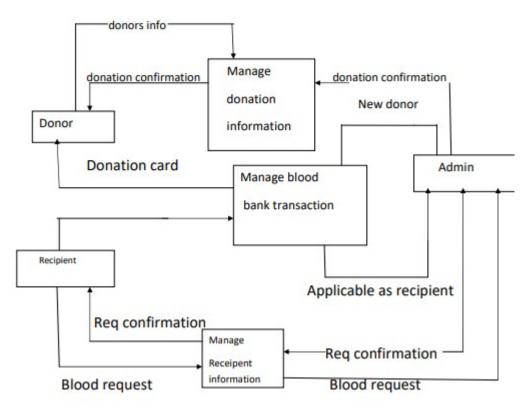


Figure 5.1.3

DFD Level 2:

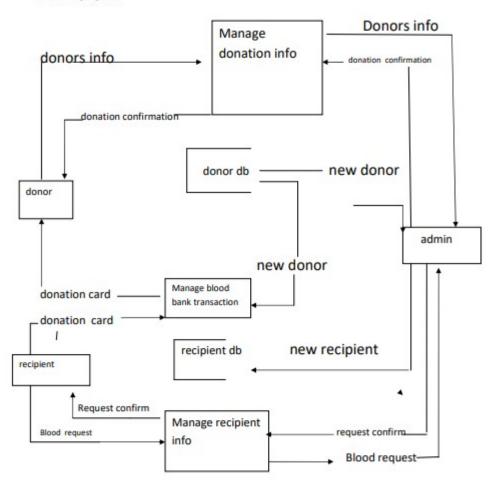


Figure 5.1.4

5.2 Solution & Technical Architecture

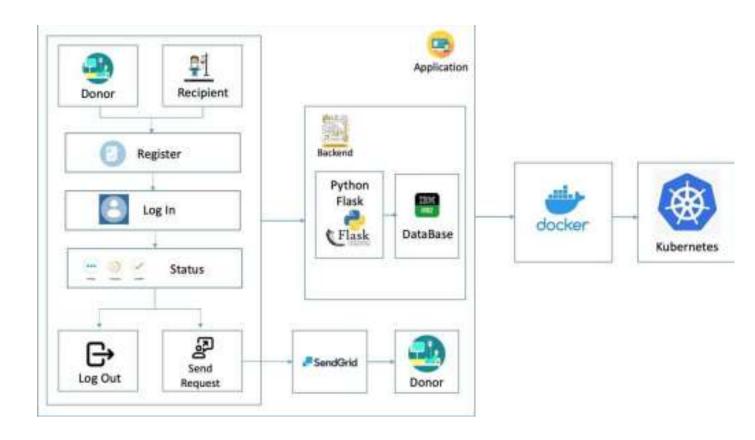
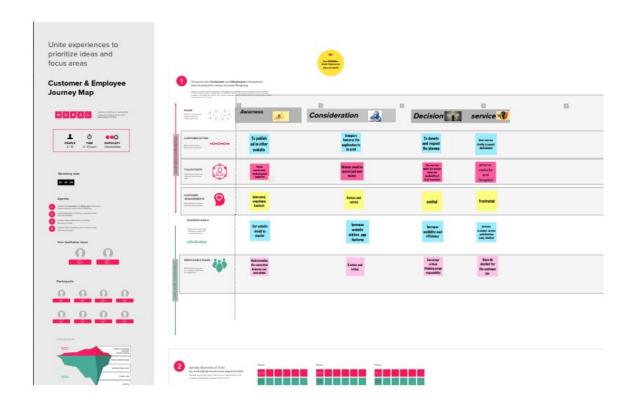


Figure 5.2.1

5.3 User Stories



6 Sprint Planning & Estimation

6.1PROJECT 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 the details. | 8 | High | A.Anusudha K.Jeeva |
| Sprint-1 | Login | USN-2 | As a user, I can login for the application by entering my email, password, and confirming my password. | 7 | High | K.Kaviya M.Sopitha |
| Sprint-1 | Email | USN-3 | As a user ,I can receive mail for registered for the application. | 5 | Low | A.Anusudha K.Jeeva |
| Sprint-2 | Notification | USN-4 | As,a user I can receive the notification when the donor is ready to donate plasma. | 5 | Medium | K.Kaviya M.Sopitha |
| Sprint-2 | Dashboard | USN-5 | As a user and admin,can view,request plasma and donate plasma. | 15 | High | A.Anusudha K.Jeeva |
| Sprint-3 | Donor details | USN-6 | As a donor ,I can enter the details to donate the plasma. | 10 | High | K.Kaviya M.Sopitha |
| Sprint-3 | Request plasma | USN-7 | As a user ,I can request for the plasma. | 10 | High | A.Anusudha K.Jeeva |
| Sprint-4 | Database | USN-8 | Connect db-2 with the application. | 10 | High | K.Kaviya M.Sopitha |
| Sprint-4 | End to end testing | USN-9 | Implementing end to end testing | 10 | High | A.Anusudha K.Jeeva |

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

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|-----------------------|----------|-------------------|------------------------------|---|---------------------------------|
| Sprint-1 | 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 | 11 Nov2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |
| | | | | | | |
| | | - | | | | |
| | | | | | | |
| | | | | | | |

Velocity:

we have a 6 days sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iterationunit (story points per day)

$$AV = sprint duration/velocity = 6/20$$

6.3. Reports from jira

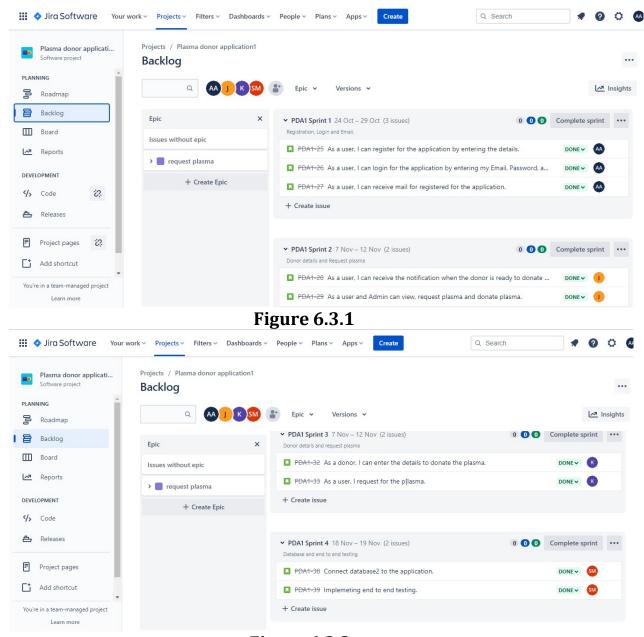


Figure 6.3.2

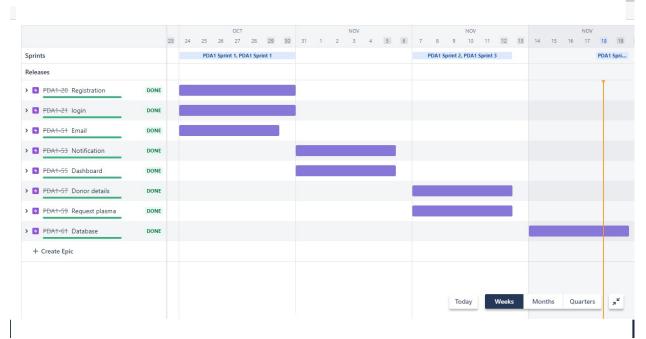


Figure 6.3.3

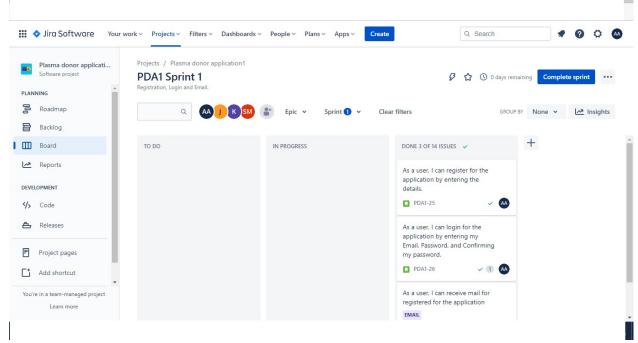


Figure 6.3.4

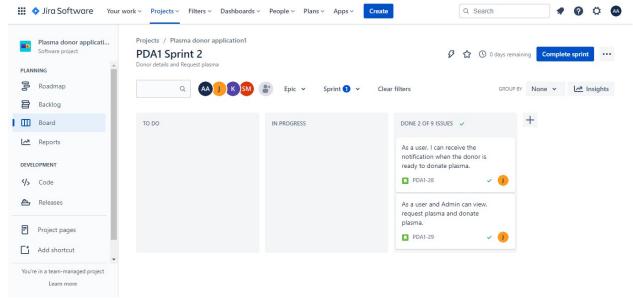


Figure 6.3.5

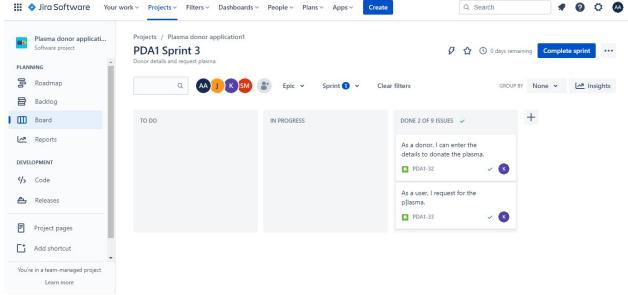


Figure 6.3.6

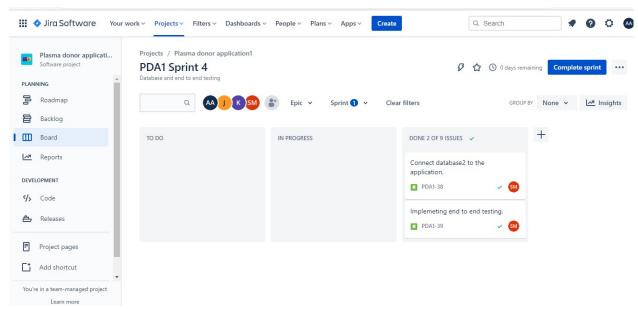


Figure 6.3.7

7.CODING AND SOLUTIONING

7.1.FEATURE -1:

```
#main.py
#importing libraries
from flask import Flask,render_template, request, redirect, url_for, session
import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=98538591-7217-
4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30
875;SECURITY=SSL;
SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=tqj08800;PWD=UKFB37L
GZ3q0xHGy",",' ')
app = Flask(__name__)
print(conn)
print("DATABASE CONNECTED SUCESSFULLY")
```

7.2 FEATURE - 2:

```
DATABASE=bludb
HOSTNAME=98538591-7217-4024-b027-
8baa776ffad1.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud
PORT=30875
SECURITY=SSL
SSLServerCertificate=DigiCertGlobalRootCA.crt
UID=tqj08800
PWD=UKFB37LGZ3q0xHGy
```

SENDGRID CODING:

import os

```
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail

message = Mail(
from_email='plasmadonar21@gmail.com',
to_emails='gusamyuktha@gmail.com',
subject='Hello there! Welcome to PLASMA DONOR APPLICATION',
```

```
html_content='<strong>PDA warmly welcomes YOU!!!</strong</strong>')
try:
    sg =
SendGridAPIClient('SG.agdL93_hTXSf1Pi8EGC9xw.zlxSPuwGvwW0zz9CaFoG
1kqF Cq9fPLBROX-_ALVk_g')
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
    print(response.headers)

except Exception as e:
    print(str(e))
```

7.3 DATABASE SCHEME:

Database Used: IBM Cloud Database

8.TESTING

8.1 TESTING CASE:

The purpose of testing is to discover errors. Testing is the processof trying to discover every conceivable fault or weakness in a work product.

It provides a way to check the functional it your components, sub-assemblies, assemblies and/or a finished product It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectation and does not fail in an unacceptable manner.

There are various types of test. Each test type addresses a specific testing requirements.

8.2 ACCEPTANCE TESTING

UAT Execution & Report Submission

1. Purpose of Document

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

2 .Defect Analysis

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

| Resolution | Severity 1 | Severity 2 | Severity 3 | Severity 4 | Subtotal |
|------------|------------|------------|------------|------------|----------|
| By Design | 10 | 4 | 2 | 3 | 20 |

| Duplicate | 1 | 0 | 3 | 0 | 4 |
|----------------|----|----|----|----|----|
| External | 2 | 3 | 0 | 1 | 6 |
| Fixed | 11 | 2 | 4 | 20 | 37 |
| Not Reproduced | 0 | 0 | 1 | 0 | 1 |
| Skipped | 0 | 0 | 1 | 1 | 2 |
| Won't Fix | 0 | 5 | 2 | 1 | 8 |
| Totals | 24 | 14 | 13 | 26 | 77 |

1. Test Case Analysis

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

| Section | Total Cases | Not Tested | Fail | Pass |
|---------------------|-------------|------------|------|------|
| Print Engine | 7 | 0 | 0 | 7 |
| Client Application | 51 | 0 | 0 | 51 |
| Security | 2 | 0 | 0 | 2 |
| Outsource Shipping | 3 | 0 | 0 | 3 |
| Exception Reporting | 9 | 0 | 0 | 9 |

| Final Report Output | 4 | 0 | 0 | 4 |
|---------------------|---|---|---|---|
| Version Control | 2 | 0 | 0 | 2 |

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.
- ➤ As a project evolves, managers need access to changing deadlines or budgets to meet their client's expectations.

10.ADVANTAGES AND DISADVANTAGES:

Advantages:

- ➤ Donating blood can help people with many health conditions, such as those who:
- ➤ Have internal or external bleeding due to an injury
- ➤ Have sickle cell disease or another illness that affects the blood
- > Are undergoing cancer treatment
- ➤ Are undergoing surgery, such as cardiovascular or orthopedic surgery
- ➤ Have an inherited blood disorare undergoing a transplant need treatments involving plasma or other blood products

Disadvantages

- ➤ Donating blood is safe, as long as the center follows the standard guidelines.
- ➤ The U.S. and many other countries have strict regulations to ensure safety. The FDA and American Association of Blood Banks (AABB) monitor blood banks for this purpose.
- > Safety precautions they take include:
- Screening donors for existing health conditions
- Using new needles for each donation
- > Having professional staff on hand
- Providing monitoring and refreshments to ensure a safe recovery.

11 CONCLUSIONS:

The efficient way of finding plasma door for the infected people is implemented using the plasma donor website that is hosted on IBM Cloud platform.

To ensure the smooth functioning of the web site operation. I have hosted the website in IBM Db2 & Kubernates Cluster to make sure the operations are running successfully Cloud lambda function is used and to deploy the application IBM Db2 service is used.

12 FUTURE ENHANCEMENTS:

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:

13.1:SOURCE CODE:

dashboard.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial- scale=1.0">
<title>Simple HTML HomePage</title>
linkrel="stylesheet"href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/5.15.3/css/all.min.css">
<style>
  @import
url('https://fonts.googleapis.com/css2?family=Sriracha&display=swap');
  margin: 0;
  box-sizing: border-box;
 }
 /* CSS for header */
  .header {
  body {
   background-image: url('567.gif');
   background-repeat: no-repeat;
   background-attachment: fixed;
```

```
background-size: cover;
}
 display: flex;
 justify-content: space-between;
 align-items: center;
 background-color: #f5f5f5;
}
.header .logo {
 font-size: 25px;
 font-family: 'Sriracha', cursive;
 color: #000;
 text-decoration: none;
 margin-left: 30px;
}
.nav-items {
 display: flex;
 justify-content: space-around;
 align-items: center;
 background-color: #f5f5f5;
 margin-right: 20px;
}
.nav-items a {
 text-decoration: none;
```

```
color: #000;
  padding: 35px 20px;
 }
 .intro {
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  width: 100%;
  height: 520px;
  background: linear-gradient(to bottom, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0, 0.5)
100%), url("photography1.gif");
  background-size: cover;
  background-position: center;
  background-repeat: no-repeat;
 }
 .intro h1 {
  font-family: sans-serif;
  font-size: 60px;
   color: #fff;
  font-weight: bold;
  text-transform: uppercase;
  margin: 0;
 }
```

```
.intro p {
 font-size: 20px;
 color: #d1d1d1;
 text-transform: uppercase;
 margin: 20px 0;
}
.intro button \{
 background-color: #5edaf0;
 color: #000;
 padding: 10px 25px;
 border: none;
 border-radius: 5px;
 font-size: 20px;
 font-weight: bold;
 cursor: pointer;
 box-shadow: 0px 0px 20px rgba(255, 255, 255, 0.4)
}
.achievements {
 display: flex;
 justify-content: space-around;
 align-items: center;
 padding: 40px 80px;
}
```

```
.achievements .work {
display: flex;
 flex-direction: column;
justify-content: center;
 align-items: center;
padding: 0 40px;
}
.achievements .work i {
 width: fit-content;
font-size: 50px;
color: #333333;
border-radius: 50%;
border: 2px solid #333333;
padding: 12px;
}
.achievements .work .work-heading {
 font-size: 20px;
color: #333333;
text-transform: uppercase;
margin: 10px 0;
}
.achievements .work .work-text {
font-size: 15px;
```

```
color: #585858;
 margin: 10px 0;
}
.about-me {
 display: flex;
 justify-content: center;
 align-items: center;
 padding: 40px 80px;
 border-top: 2px solid #eeeeee;
}
.about-me img {
 width: 500px;
 max-width: 100%;
 height: auto;
 border-radius: 10px;
}
.about-me-text h2 {
 font-size: 30px;
 color: #333333;
 text-transform: uppercase;
 margin: 0;
}
.about-me-text p {
```

```
font-size: 15px;
color: #585858;
margin: 10px 0;
}
/* CSS for footer */
.footer {
display: flex;
justify-content: space-between;
align-items: center;
background-color: #302f49;
padding: 40px 80px;
}
.footer .copy {
color: #fff;
}
. bottom\text{-}links \ \{
display: flex;
justify-content: space-around;
align-items: center;
padding: 40px 0;
}
.bottom-links .links {
display: flex;
```

```
flex-direction: column;
  justify-content: center;
  align-items: center;
  padding: 0 40px;
 }
 .bottom-links .links span {
  font-size: 20px;
  color: #fff;
  text-transform: uppercase;
  margin: 10px 0;
 }
 .bottom-links .links a {
  text-decoration: none;
  color: #a1a1a1;
  padding: 10px 20px;
 }
</style>
</head>
<body>
<ahref="https://api.jptok.assistant.watson.cloud.ibm.com/instances/405d2e0a-
6b3a-484d-aac0-582f11bbcba9"></a>
<header class="header">
  <a href="#" class="logo"></a>
  <nav class="nav-items">
```

```
<a href="dashboard1.html">Home</a>
  <a href="Plasma request.html">Plasma request</a>
  <a href="donor details.html">Donate plasma</a>
  <a href="Registration.html">Register</a>
  <a href="login.html">Login</a>
  <a href="about.html">About</a>
  </nav>
</header>
 <main>
  <div class="intro">
  <h1>plasma donar application</h1>
  A drop for you, an ocean for someone else.
  <button>Donate</button>
  </div>
  <div class="about-me">
  <div class="about-me-text">
   <h2>About plasma</h2>
   Plasma donation involves drawing blood, extracting the plasma, and
returning the rest of the blood to the donor through a process called
plasmapheresis. This type of donation takes slightly longer than whole blood, but as
a person is only donating plasma, it yields a larger volume of blood plasma, meaning
people can donate more frequently..
  </div>
  <img src="photography.jpg">
```

```
</div>
</main>
<footer class="footer">
  <div class="bottom-links">
  <div class="links">
   <span>More Info</span>
   <a href="#">Home</a>
   <a href="#">About</a>
   <a href="#">Contact</a>
   <ahref="https://api.jp-
tok.assistant.watson.cloud.ibm.com/instances/405d2e0a-6b3a-484d-aac0-
582f11bbcba9">chatbot</a>
  </div>
 </div>
</footer>
</body>
</html>
Home.html:
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>PLASMA </title>
<style>
```

```
body {
  margin: 0;
  box-sizing: border-box;
 }
 .container {
  height: 100vh;
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
  background: linear-gradient(to right, rgba(0, 0, 0, .5), rgba(0, 0, 0, .1)),
url('098.gif');
  background-size: cover;
  background-position: center;
  background-repeat: no-repeat;
 }
 h1 {
  font-size: 10rem;
  color: #fff;
  text-transform: uppercase;
  font-weight: 700;
  margin-bottom: 1rem;
 }
 h2 {
```

```
font-size: 2rem;
  color: #fff;
  text-transform: uppercase;
  font-weight: 700;
  margin-bottom: 1rem;
 }
 p {
  font-size: 1.5rem;
  color: #fff;
  font-weight: 700;
  margin-bottom: 1rem;
 }
 a {
  padding: 15px 20px;
  background: #52caee;
  font-size: 1rem;
  text-decoration: none;
  color: #333333;
  border-radius: .25rem;
  box-shadow: 0 0 20px rgba(255, 255, 255, 0.808)
 }
</style>
</head>
```

```
<body>
       <div class="container">
        <h1>PLASMA</h1>
        <h2>DONATION</h2>
        Plasma donation is different than donating whole blood. Plasma is the liquid
      part of the blood that contains the elements necessary for blood clotting. Donating it
      is a more complicated process than donating blood. The blood is drawn from your
      arm, the components are separated, and the plasma is put into a separate bag.
      <form>
      <ahref="dashboard1.html"><button type=submit>Back</button>
      <form action="http://dashboard1.html">
      </form>
       </div>
      </body>
      </html>
      Plasma request.html:
      <!DOCTYPE html>
      <html lang="en">
      <head>
       <title>Apply</title>
       <script>
       window.watsonAssistantChatOptions = {
       integrationID: "3b214ae8-6eba-404e-85be-63772e4c2fef", // The ID of this
      integration. region: "eu-gb", // The region your integration is hosted in.
       serviceInstanceID: "3b4bf0dd-e329-4199-99b4-25f9ba1ee227", // The ID of your
      service instance.
      onLoad: function(instance) { instance.render(); }
      setTimeout(function(){
                     t=document.createElement('script');
     const
                                                                   t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion
                                                                             'latest')+
                                                              Ш
"/WatsonAssistantChatEntry.js";
```

```
document.head.appendChild(t);
});
</script>
  <style>
   body{
background: linear-gradient(to bottom, rgba(0, 0, 0, 0.5) 0%, rgba(0, 0, 0.5)
100%), url("321.gif");
  background-size: cover;
  background-position: center;
  background-repeat: no-repeat;
   }
    h3{
    color: rgb(6, 241, 238);
    font-size: 40px;
    }
   input{
    border: 2px;
    border-style: groove;
    border-radius: 7px;
    padding-top: 8px;
     padding-left: 8px;
     padding-bottom: 8px;
    padding-right: 8px;
    border-color: rgb(0, 255, 251);
```

```
height: 25px;
width:400px;
}
button{
border: 2px;
border-radius: 10px;
 padding-top: 8px;
 padding-left: 8px;
 padding-bottom: 8px;
 padding-right: 8px;
 border-style: groove;
width: 90px;
 opacity: 90%;
border-color: rgb(0, 247, 255);
 cursor:pointer;
}
.right{
width:50%;
float: right;
}
.left{
width: 50%;
float: left;
```

```
}
 </style>
</head>
<body>
 <h3>PLASMA REQUEST</h3>
 <form method="post">
 <div class="right">
   <input type="text" name="blood_group" placeholder="Blood Group" required</pre>
/><br><br>
           type="number"
                            name="aadhar"
   <input
                                            placeholder="Aadhar"
                                                                  required
/><br><br>
   <input type="text" name="state" placeholder="State" required /><br>
   <input type="text" name="city" placeholder="City" required /><br>
   <input type="password" name="password" placeholder="Password" required
/><br><
 </div>
 <div class="left">
   <input type="text" name="name" placeholder="Name" required /><br>
   <input type="email" name="email" placeholder="Email" required /><br>
   <input
           type="number"
                            name="mobile"
                                            placeholder="Mobile"
                                                                  required
/><br><br>
   <input type="number" name="age" placeholder="Age" required/><br>
   <input type="text" name="gender" placeholder="Gender" required/><br>
 </div>
  <button type="submit">Apply</button>
```

```
</form>
 <button type="success">
 success
 error
 <a href="/logout">Logout</a>
</body>
</html>
Donor details.html:
<!DOCTYPE html>
<html>
<head>
<style>
body {
background-image: url('567.gif');
background-repeat: no-repeat;
background-attachment: fixed;
background-size: cover;
</style>
</head>
<div class="jumbotron jumbotron-fluid">
   <div class="container">
    <h1 class="display-4">Welcome To Donar's Portal</h1>
```

}

```
<br>
     <h2 class="display-6">Enter Donor's Details</h2>
     <br>
     A EASY WAY TO DONATE YOUR BLOOD TO THE PEOPLE IN
NEED
   </div>
 </div>
 <form>
   <div class="form-group">
     <label for="inputAddress">Name</label>
     <input type="text" class="form-control" id="inputName" placeholder="Full</pre>
Name">
   </div>
   <div class="form-row">
     <div class="form-group col-md-6">
       <label for="inputEmail4">Email</label>
       <input
                  type="email"
                                    class="form-control"
                                                            id="inputEmail"
placeholder="Email">
     </div>
     <div class="form-group col-md-6">
      <label for="inputPassword4">Contact Number</label>
                                class="form-control"
                                                         id="inputPassword"
      <input
                  type="tel"
placeholder="Phone">
     </div>
```

```
</div>
   <div class="form-row">
     <div class="form-group col-md-6">
       <label for="inputEmail4">Date of Birth</label>
       <input type="DoB" class="form-control" id="inputDoB" placeholder="Date</pre>
of Birth">
     </div>
     <div class="form-group col-md-6">
       <label>Gender:-</label>
           <div class="radio">
          <input type="radio" name="gender" class="radio1" value="Male"><span
class="radioname" required autocomplete="off">Male</span>
                           type="radio"
                                             class="radio2"
                                                                name="gender"
                <input
value="Female">
<span class="radioname" required autocomplete="off">Female</span>
   </div>
   <div class="form-row">
     <div class="form-group col-md-6">
       <label for="inputCity">City</label>
       <input type="text" class="form-control" id="inputCity">
     </div>
     <div class="form-group col-md-4">
       <label for="inputState">State</label>
       <select id="inputState" class="form-control">
         <option value="" selected>Select State
```

```
<option value="Andaman and Nicobar Islands">Andaman and Nicobar
Islands</option>
        <option value="Andhra Pradesh">Andhra Pradesh
        <option value="Arunachal Pradesh">Arunachal Pradesh/option>
        <option value="Assam">Assam</option>
        <option value="Bihar">Bihar</option>
        <option value="Chandigarh">Chandigarh</option>
        <option value="Chhattisgarh">Chhattisgarh
                 value="Dadra
        <option
                              and
                                    Nagar
                                           Haveli">Dadra
                                                         and
                                                               Nagar
Haveli</option>
        <option value="Daman and Diu">Daman and Diu
        <option value="Delhi">Delhi</option>
        <option value="Goa">Goa</option>
        <option value="Gujarat">Gujarat
        <option value="Haryana">Haryana
        <option value="Himachal Pradesh">Himachal Pradesh
        <option value="Jammu and Kashmir">Jammu and Kashmir/option>
        <option value="Jharkhand">Jharkhand
        <option value="Karnataka">Karnataka
        <option value="Kerala">Kerala</option>
        <option value="Lakshadweep">Lakshadweep
        <option value="Madhya Pradesh">Madhya Pradesh
        <option value="Maharashtra">Maharashtra
        <option value="Manipur">Manipur
```

```
<option value="Meghalaya">Meghalaya
     <option value="Mizoram">Mizoram</option>
     <option value="Nagaland">Nagaland
     <option value="Orissa">Orissa</option>
     <option value="Pondicherry">Pondicherry</option>
     <option value="Punjab">Punjab
     <option value="Rajasthan">Rajasthan
     <option value="Sikkim">Sikkim</option>
     <option value="Tamil Nadu">Tamil Nadu
     <option value="Tripura">Tripura</option>
     <option value="Uttaranchal">Uttaranchal
     <option value="Uttar Pradesh">Uttar Pradesh
     <option value="West Bengal">West Bengal
   </select>
 </div>
 <div class="form-group col-md-2">
 <label for="inputZip">Zip</label>
   <input type="text" class="form-control" id="inputZip">
 </div>
</div>
<div class="form-group">
<label for="inputAddress">Blood Group</label>
 <select id="inputState" class="form-control">
```

```
<option value="A+">A+</option>
       <option value="A-">A-</option>
       <option value="A1+">A1+</option>
       <option value="A1-">A1-</option>
       <option value="A1B+">A1B+</option>
       <option value="A1B-">A1B-</option>
       <option value="A2+">A2+</option>
       <option value="A2-">A2-</option>
       <option value="A2B+">A2B+</option>
       <option value="A2B-">A2B-</option>
       <option value="AB+">AB+</option>
       <option value="AB-">AB-</option>
       <option value="B+">B+</option>
       <option value="B-">B-</option>
       <option value="0+">0+</option>
       <option value="0-">0-</option>
     </select>
   </div>
   <div class="form-group">
     <label for="inputAddress">Diseases (if Any/None)</label>
                                  class="form-control"
                                                           id="inputAddress"
     <input
                 type="text"
placeholder="Diseases">
   </div>
```

<option value="" selected>Select Blood Group

```
<div class="form-group">
        <div class="form-check">
          <input class="form-check-input" type="checkbox" id="gridCheck">
          <label class="form-check-label" for="gridCheck">
           Agree to terms and conditions
          </label>
            <div class="invalid-feedback">
             You must agree before submitting.
            </div>
          </label>
        </div>
      </div>
      <button type="submit" class="btn btn-primary">Submit Details/button>
    </form>
about.html:
  <!DOCTYPE html>
  <html>
  <head>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <style>
  body {
   background-image: url('765.jpg');
   background-repeat: no-repeat;
```

```
background-attachment: fixed;
 background-size: cover;
}
body {
 font-family: Arial, Helvetica, sans-serif;
 margin: 0;
}
html {
 box-sizing: border-box;
}
*, *:before, *:after {
 box-sizing: inherit;
}
.column {
 float: left;
 width: 33.3%;
 margin-bottom: 16px;
 padding: 0 8px;
}
.card {
 box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
 margin: 8px;
}
```

```
.about-section {
 padding: 50px;
 text-align: center;
 background-color: #474e5d;
 color: white;
}
.container {
 padding: 0 16px;
}
.container::after, .row::after {
 content: "";
 clear: both;
 display: table;
}
.title {
 color: grey;
}
.button {
 border: none;
 outline: 0;
 display: inline-block;
 padding: 8px;
 color: white;
```

```
background-color: #000;
 text-align: center;
 cursor: pointer;
 width: 100%;
}
.button:hover {
 background-color: #555;
}
 @media screen and (max-width: 650px) {
 .column {
 width: 100%;
 display: block;
 }
}
</style>
</head>
<body>
<div class="about-section">
<h1>About Us Page</h1>
 Plasma includes antibodies that help you fight illness. It's chock-full of proteins
that drug manufacturers can utilize to build life-saving drugs, but it's in short
supply. The demand for plasma is considerably greater now because the COVID-19
outbreak disrupted plasma collections across the country.
 Resize the browser window to see that this page is responsive by the way.
</div>
```

```
<h2 style="text-align:center">Our Team</h2>
 <div class="row">
 <div class="column">
 <div class="card">
 <img src=" images.jpg" alt="" style="width:100%">
 <div class="container">
 <h2>Anusudha</h2>
  team leader
   Team leaders are responsible for training team members, setting strategy
and monitoring progress towards goals.
   anusudha160@gmail.com
   <button class="button">Contact:9894596603</button>
  </div>
 </div>
</div>
<div class="column">
 <div class="card">
  <img src="images.jpg" alt="" style="width:100%">
  <div class="container">
   <h2>Jeeva</h2>
   team member
   Valuable team members should be experts in their chosen disciplines – they
shouldn't be expected to switch roles with one another when there isn't a major
overlap in competencie.
   jeevakaruppiah21@gmail..com
```

```
<button class="button">Contact:6374646402</button>
  </div>
 </div>
</div>
 <div class="column">
 <div class="card">
 <img src="images.jpg" alt="" style="width:100%">
  <div class="container">
  <h2>kaviya</h2>
  team member
   Valuable team members should be experts in their chosen disciplines – they
shouldn't be expected to switch roles with one another when there isn't a major
overlap in competencie.
   kavyakutti2020@gmail.com
   <button class="button">Contact:7806887541</button>
  </div>
 </div>
</div>
</div>
<div class="column">
 <div class="card">
  <img src="images.jpg" alt="" style="width:100%">
  <div class="container">
   <h2>Sopitha</h2>
```

```
team member
```

```
muthuselvamabi19078@gmail..com
<button class="button">Contact:7904754363</button>
</div>
</div>
</div>
</body>
</html>
```

Login.html:

```
<!DOCTYPE html>
<html lang="en" >
<head>
<meta charset="UTF-8">
<title>Animated Background Login Screen</title>
linkrel='stylesheet'href='https://maxcdn.bootstrapcdn.com/bootstrap/3.3.0/css/bootstrap.min.css'>
link rel="stylesheet" href="./style.css">
</head>
<body>
<!-- partial:index.partial.html -->
```

```
<div class="container">
      <div id="login-box">
             <div class="logo">
                    <img src="http://placehold.it/100x100?text=DD" class="img
img-responsive img-circle center-block"/>
                    <h1class="logo-caption">
                 <span class="tweak">L</span>ogin</h1>
             </div><!-- /.logo -->
             <div class="controls">
                                       type="text"
                                                              name="username"
                    <input
placeholder="Username" class="form-control" />
                    <input type="text" name="username" placeholder="Password"</pre>
class="form-control" />
                    <button type="button" class="btn btn-default btn-block btn-
custom">Login</button>
             </div>
      </div>
</div>
<div id="particles-js"></div>
<!-- partial -->
<script
src='https://maxcdn.bootstrapcdn.com/bootstrap/3.3.0/css/bootstrap.min.css'></
script>
<scriptsrc='https://code.jquery.com/jquery1.11.1.min.js'></script>
<script src="./script.js">
</script>
```

```
</body>
```

Index1.html:

```
<!DOCTYPE html>
<!-- Code By Webdevtrick ( https://webdevtrick.com ) -->
<html lang="en" >
<head>
 <meta charset="UTF-8">
 <title>Animated Login Page | Webdevtrick.com</title>
 linkhref="https://fonts.googleapis.com/css?family=Rubik&display=swap"
rel="stylesheet">
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="container">
<div class="left-section">
<div class="header">
   <h1 class="animation a1">Welcome Back!</h1>
         class="animation
                            a2">Log in for
                                                                   membership
                                                 entering your
dashboard.</h4>
 </div>
  <div class="form">
   <input type="email" class="form-field animation a3" placeholder="Username">
                                      class="form-field
                                                                            a4"
               type="password"
                                                            animation
   <input
placeholder="Password">
```

```
<a href="#">Forgot Password</a>
        <button class="animation a6">LOGIN</button>
       </div>
      </div>
      <div class="right-section"></div>
     </div>
     </body>
     </html>
     Style.css:
{
       Margin;
       padding: 0;
       box-sizing: border-box;
}
       .full-page
{
       height: 100vh;
       width: 100%;
      background-image:url('C:\Users\user\Desktop\Project\image1.jpg');
      position: absolute;
}
     .sub-page
```

```
{
       width: 1266px;
       height: 559px;
       position: absolute;
       background-image: url('C:\Users\user\Desktop\Project\giphy.jpeg');
       background-size: cover;
       background-position: center;
       left: 50px;
       top: 50px;
}
      .navigation-bar
{
      display: flex;
      align-items: center;
      padding: 20px;
      padding-left: 80px;
      padding-right: 30px;
      padding-top: 50px;
}
     .logo
{
     position: fixed;
     margin-top: 10px;
```

```
}
     .logo a
{
     text-decoration: none;
     color: white;
     font-size: 30px;
}
     nav
{
     flex: 1;
     position: fixed;
     right: 0;
}
     nav ul
{
     display: inline-block;
     list-style: none;
}
     nav ul li
{
     display: inline-block;
     margin-right: 90px;
     margin-top: 17px;
```

```
}
     nav ul li a
{
     text-decoration: none;
     font-size: 20px;
     color: Red;
     font-family: sans-serif
}
     nav ul li a:hover
{
     color: saddlebrown;
}
     .row
{
     display: flex;
     align-items: center;
     flex-wrap: wrap;
     justify-content: space-around;
}
     .col-1
{
     flex-basis: 50%;
     min-width: 300px;
```

```
}
       .form-box
{
        width: 300px;
        height: 400px;
        position: relative;
        top: 50px;
        left: 120px;
        background: rgba(0,0,0,0.6);
}
       .main-heading
 {
        color: orangered;
        padding-bottom: 20px;
}
       .form
{
        position: relative;
        margin: 0 auto 100px;
        padding: 45px;
        text-align: center;
 }
        .form input
```

```
{
         font-family: sans-serif;
         outline: none;
         border: none;
         border-bottom: 1px solid black;
         width: 100%;
         margin: 0 0 15px;
         padding: 15px;
         font-size: 14px;
}
         .form button
{
         font-family: sans-serif;
         width: 100%;
         color: white;
         font-size: 14px;
         cursor: pointer;
         padding: 15px;
         border: none;
         background: coral;
}
       .form .message
}
```

```
font-size: 12px;
        margin: 15px 0 0;
        color: white;
}
        .form .message a
{
        color: orangered;
        text-decoration: none;
}
       .form .register-form{
       display: none;
}
       .defination
{
       text-align: left;
       font-size: 30px;
       color: white;
       font-family: 'Kaushan Script', cursive;
       padding-left: 60px;
 }
app.py
from flask import ^{\ast}
import sys
```

```
app=Flask(__name__)
app.secret_key="123"
class User:
  def __init__(self,username,password):
   self.username=username
   self.password=password
users=∏
users.append(User(username="anusudha",password="anu160@"))
users.append(User(username="jeeva",password="jeeva21@"))
users.append(User(username="sopitha",password="sobi@14"))
users.append(User(username="kaviya",password="kaviya03@"))
@app.route("/dashboard",methods=['GET','POST'])
def dashboard():
  if request.method =='POST':
   uname=request.form.get['uname']
   upass = request.form.get['upass']
   if users.username==uname and users.password==upass:
```

```
return redirect(url_for('user'))
    else:
     flash("Username or Password Mismatch...!!!",'danger')
     return redirect(url_for('login'))
  return render_template("dashboard.html")
@app.route("/",methods=['GET','POST'])
def login():
 if request.method =='POST':
   uname=request.form['uname']
   upass = request.form['upass']
   for data in users:
     if data.username==uname and data.password==upass:
        return redirect("/dashboard")
   else:
     flash("Username or Password Mismatch...!!!",'danger')
      return redirect("/")
 return render_template("index1.html")
@app.route("/donate-plasma",methods=['GET','POST'])
def donateplasma():
```

```
if request.method=='POST':
    iname = request.form.get("inputName")
    # umail = request.form.get("inputEmail")
    # ucontact = request.form.get("inputcontact")
    # udob = request.form.get("inputDoB")
    # ugender = request.form.get("gender")
    # ucity = request.form.get("inputCity")
    # ustate = request.form.get("inputState")
    # upin = request.form.get("inputZip")
    print(iname,file=sys.stdout)
  return render_template("donor_details.html")
@app.route("/plasma-req",methods=['GET','POST'])
def plasmarequest():
  if request.method=='POST':
    uname=request.form['uname']
    upass = request.form['upass']
    for data in users:
      if data.username==uname and data.password==upass:
        session['userid']=data.id
        g.record=1
        return redirect(url_for('/'))
      else:
```

```
g.record=0
    if g.record!=1:
      flash("Username or Password Mismatch...!!!",'danger')
      return redirect(url_for('login'))
  return render_template("plasma_request.html")
@app.route("/home",methods=['GET','POST'])
def home():
  if request.method=='POST':
    uname=request.form['uname']
    upass = request.form['upass']
    for data in users:
      if data.username==uname and data.password==upass:
        session['userid']=data.id
       g.record=1
        return redirect(url_for('/'))
      else:
       g.record=0
    if g.record!=1:
      flash("Username or Password Mismatch...!!!",'danger')
      return redirect(url_for('login'))
  return render_template("home.html")
```

```
@app.route("/about",methods=['GET','POST'])
def about():
  if request.method=='POST':
   uname=request.form['uname']
   upass = request.form['upass']
   for data in users:
     if data.username==uname and data.password==upass:
       session['userid']=data.id
        g.record=1
       return redirect(url_for('/'))
      else:
       g.record=0
   if g.record!=1:
     flash("Username or Password Mismatch...!!!",'danger')
     return redirect(url_for('login'))
 return render_template("about.html")
@app.route("/register",methods=['GET','POST'])
def register():
 if request.method=='POST':
   uname=request.form['uname']
   upass = request.form['upass']
```

```
for data in users:
      if data.username==uname and data.password==upass:
        session['userid']=data.id
        g.record=1
        return redirect(url_for('/'))
      else:
        g.record=0
    if g.record!=1:
      flash("Username or Password Mismatch...!!!",'danger')
      return redirect(url_for('login'))
 return render_template("Registration.html")
@app.before_request
def before_request():
  if 'userid' in session:
    for data in users:
      if data.id==session['userid']:
        g.user=data
@app.route('/user')
def user():
 if not g.user:
    return redirect(url_for('login'))
```

```
return render_template('index1.html')
@app.route('/logout')
def logout():
    session.clear()
    return redirect(url_for('login'))

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

Output:

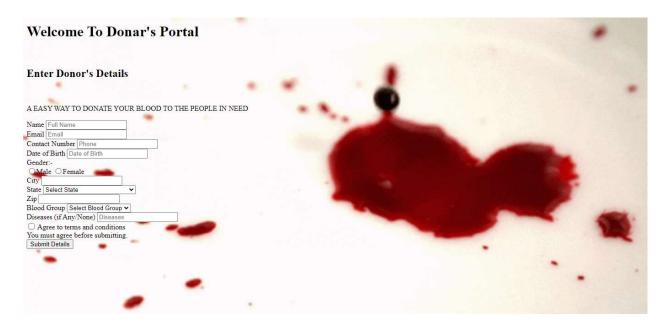
Dashboard:



Home page:



Donate plasma:



Blood request:



About page:

About Us Page

Plasma includes antibodies that help you fight illness. It's chock-full of proteins that drug manufacturers can utilize to build life-saving drugs, but it's in short supply. The demand for plasma is considerably greater now because the COVID-19 outbreak disrupted plasma collections across the country.

Resize the browser window to see that this page is responsive by the way.

Our Team

Anusudha

team leader

Team leaders are responsible for training team members, setting strategy and monitoring progress towards goals.

anusudha160@gmail.com

Contact:9894596603

Jeeva

team member

Valuable team members should be experts in their chosen disciplines – they shouldn't be expected to switch roles with one another when there isn't a major overlap in competencie.

jeevakaruppiah21@gmail..com

Contact:6374646402

kaviya

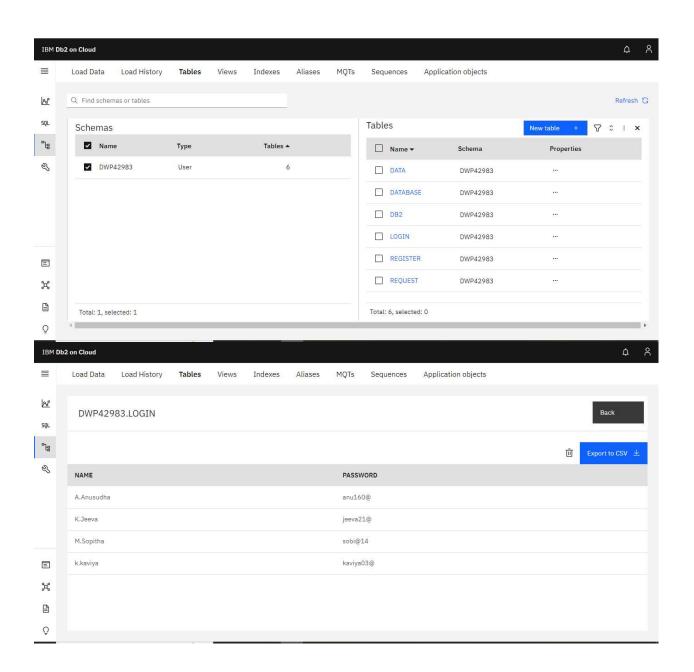
team member

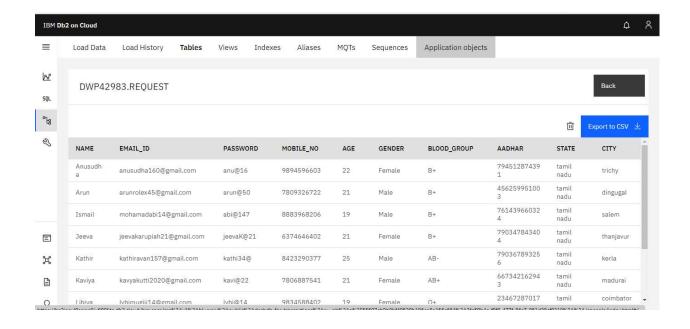
Valuable team members should be experts in their chosen disciplines – they shouldn't be expected to switch roles with one another when there isn't a major overlap in competencie.

kavyakutti2020@gmail.com

Contact:7806887541

IBM DB2:





13.2 .GITHUB

IBM-Project-3384-1658557794

Project demo link:

https://drive.google.com/drive/folders/1VRrJJhjynESUBqOdc7jV0O5n2bP_0oFP?usp=share_link