PROJECT REPORT

PLASMA DONOR APPLICATION

Team id	PNT2022TMID40063
Project Name	Plasma Donor Application
Team Members	1) K.Akash (511819104002) 2) K.Jeya chandriran (511819104007) 3) A.Thirupathi (511819104025) 4) S.Vasanth Kumar (511819104026)

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INDUSRTY MENTOR :NAVYA

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INTRODUCTION

PROJECT OVERVIEW:

The main goal of our project is to design a user-friendly web application that is like a scientific vehicle from which we can help reduce mortality or help

those affected by COVID19 by donating plasma from patients who have recovered without approved antiretroviral therapy planning for a deadly COVID19 infection, plasma therapy is an experimental approach to treat those COVID-positive patients and help them recover faster.

Therapy, which is considered reliable and safe. If a particular person has fully recovered from COVID19, they are eligible to donate their plasma. As we all know, the traditional methods of finding plasma, one has to find out for oneself by looking at hospital records and contacting donors have been recovered, sometimes may not be available at home and move to other places. In this type of scenario, the health of those who are sick becomes disastrous. Therefore, it is not considered a rapid process to find plasma.

PURPOSE:

During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count has become low.

The Purpose of this Application is Saving the donor information and helping the needy by notifying the current donors list, would be a helping hand. In regard to the problem faced, This application is to be built which would take the donor details, store them and inform them upon a request.

2 LITERATURE SURVEY

EXISTING PROBLEM:

- Cannot Upload and Download the latest updates.
- No use of Web Services and Remoting.
- Risk of mismanagement and of data when the project is und
- Less Security.
- No proper coordination between different Applications and Users.
- Fewer Users – Friendly

REFERENCE:

- R. C. Gojko Adzic, ―Serverless computing: Economic and architectural impact,‖ ESEC/FSE, 2017.
- P. C. P. C. a. V. I. M. Yan, ―Building a chatbot with server less computing,‖ IBM watson research center, 2016.
- S. E. a. B. J. J. Short, ――Cloud Event Programming Paradigms: Applications and Analysis,‖,‖ 9th IEEE International Conference on Cloud Computing (CLOUD), pp. pp. 400-406, 2017.
- Z. Al-Ali, ――Making Server less Computing More Server less,‖,‖ IEEE 11th International Conference on Cloud Computing(CLOUD), pp. pp. 456-459, 2018., 2018.
- A. S. a. S. Jindal, ――EMARS: Efficient Management and Allocation of Resources in Serverless,‖,‖ IEEE 11th International Conference on Cloud Computing (CLOUD), pp. pp. 827-830, 2018.

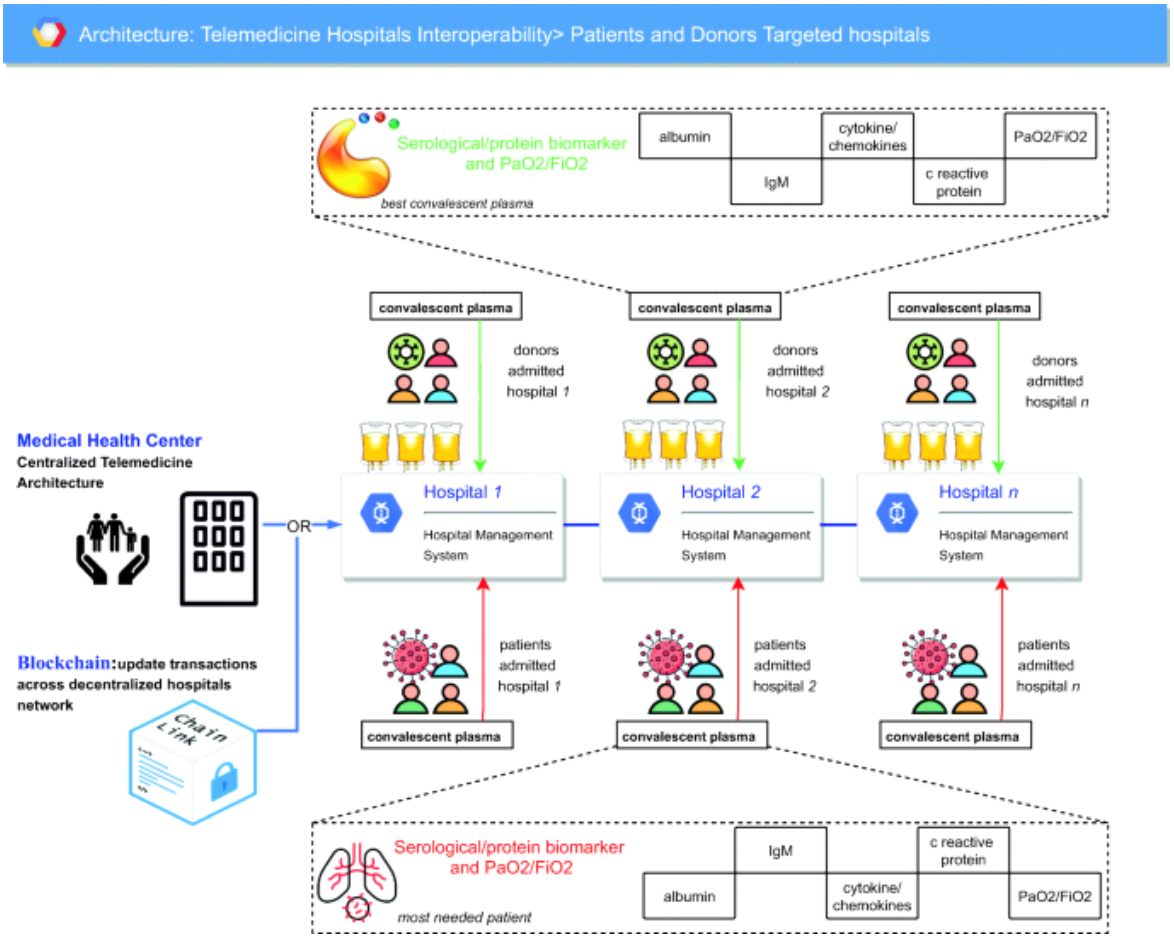
- **IDEATION & PROPOSED SOLUTION**

Empathy Map Canvas:

Brainstorm & Idea Prioritization Template:

step-1: Team Gathering, Collaboration and Select the Problem Statement
Step-2: Brainstorm, Idea Listing and Grouping

Step-3: Idea Prioritization



Proposed Solution Template:

Project team shall fill the following information in proposed solution template

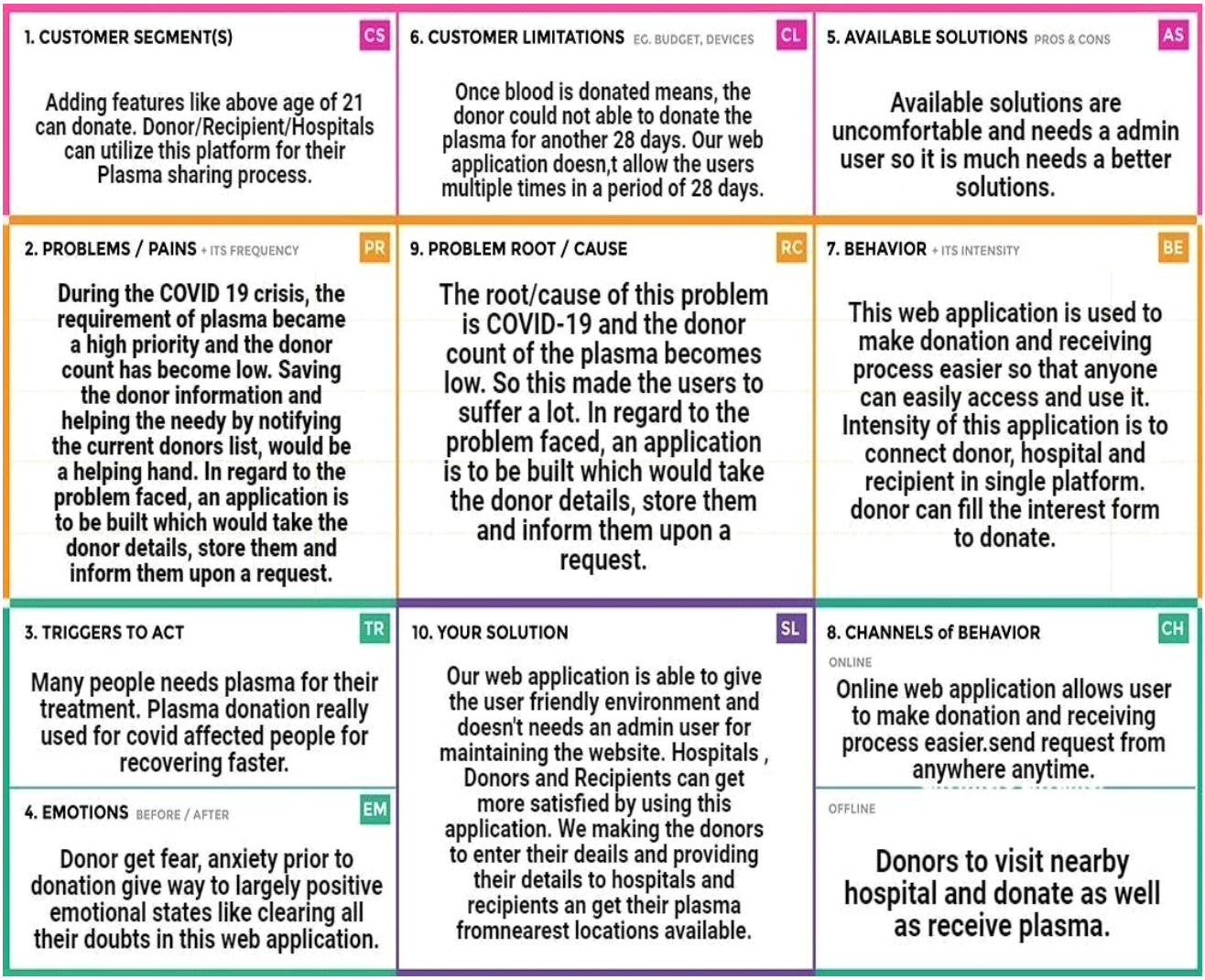
S. No.	Parameter	Description
1.	Problem Statement (Problem tobe solved)	To help the plasma donor and seeker bydeveloping a cloud-based application.
2.	Idea/Solution description	In day-to-day life requirement for plasmabecame high, especially during the COVID-19 crisis. But the donor count was low.

		Saving the donor information and helpingthe needy by notifying the current donors would be a helping hand. It is very difficult to find the respective blood groupdonors when anyone is in need. Regardingthe problem faced, an application is to be built which would take the donor details store them and inform them upon request.And also for plasma donation centre, it is Easy to find donors.
3.	Novelty/ Uniqueness	We help the donor to access the location ofa blood centre which is nearby him/her. WeNotify them by sending a confirmation emails after they get registered for the plasma donation and alsowe notify them once the appointment is fixed in the centre.Further , more the GPS map option is available to direct The donor to the centre.
4.	Social Impact / CustomerSatisfaction	By using this application, the user will experience a user-friendly and responsiveinterface and they get satisfaction by Saving thousand so people's life.

5.	Business Model(Revenue Model)	Donating Plasma with the help of an application makes our idea realistic. Theuser's information is encrypted. We maintain this app by automation for saving admin and user time. Users get profited as we take care of them even afterthe plasma donation by giving them hospitality details. Also, we use the Chabott answer FAQs ,asset helps the user to get immediateAnswer to their doubts.
6.	Scalability of the Solution	Whatever the requirements, the

		applicationprovides a clear solution for the requirements. It can handle more users whouse the application at the same time .

PROBLEM SOLUTION FIT:



- **REQUIREMENT ANALYSIS**:

FUNCTIONAL REQUIREMENTS:

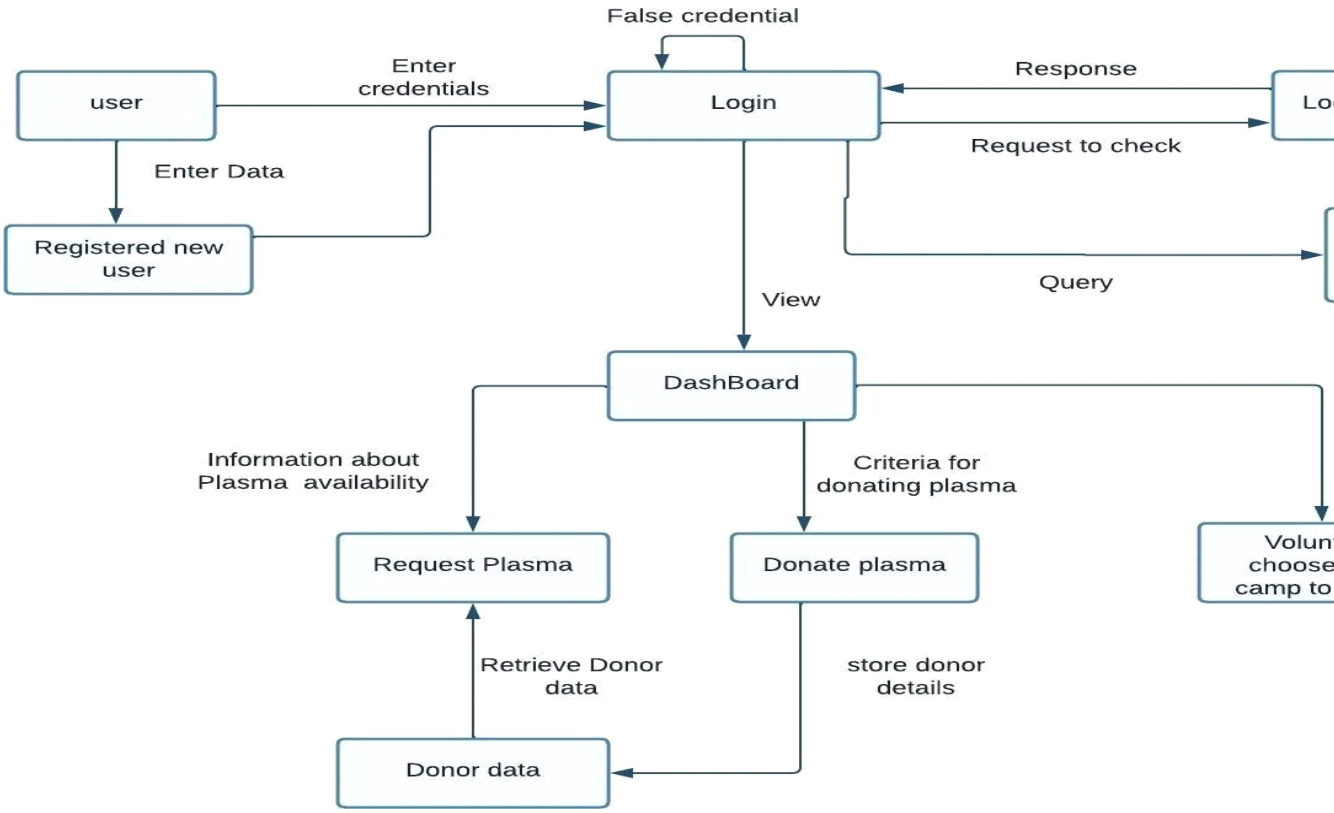
Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form (WebApp)
FR-2	User Confirmation	Confirmation via EmailConfirmationvia OTP
FR-3	Certification	After the donor donates plasma, we will give them a certificate of appreciation and authentication.
FR-4	Statistical data	The availability of plasma is given in the page as stats,which will be helpful for the users.
FR-5	User Plasma Request	Users can request to donate plasma by filling out therequest form on the page. Once the request is submitted, they will get an email
FR-6	Searching/reporting requirements	Users can use the search bar to look up informationabout camps and other topics.
FR-7	Virtual Assistants	A virtual assistant is a software agent that can carry out tasks or provide services on behalf of a person in response to commands or inquiries. When users enter their inquiries, the system will respond with pertinent information about plasma anddetails of plasma donation.

NON-FUNCTIONALREQUIREMENTS:

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

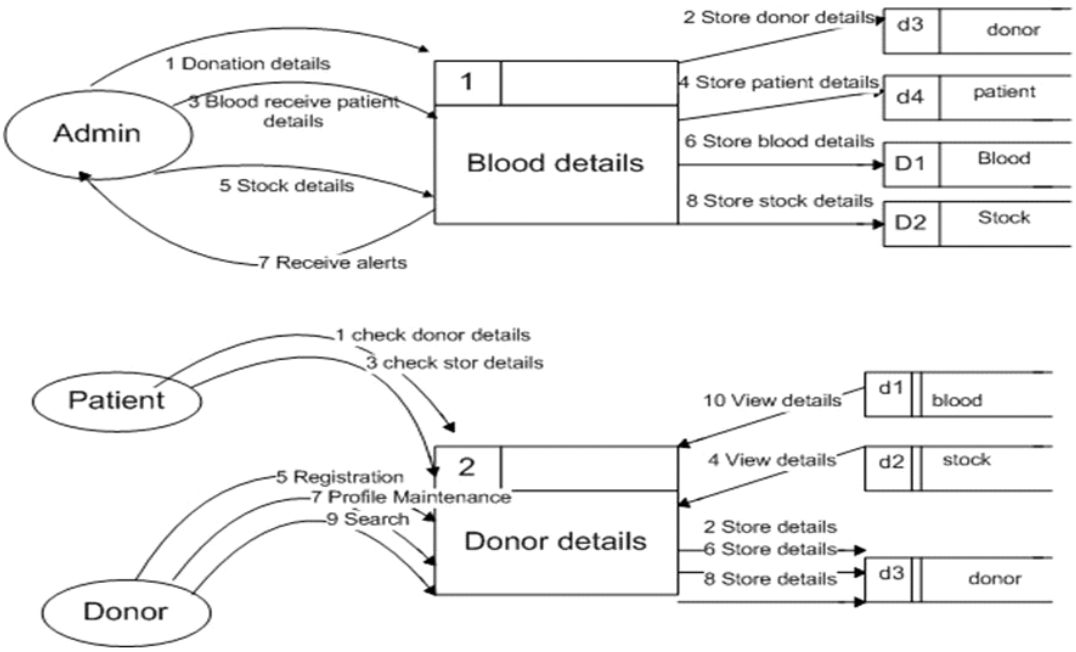
NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	Must have a good-looking User-friendly interface.
NFR-2	Security	It must be secured with the proper username andpassword.
NFR-3	Reliability	The system should be made in such a way that it isreliable in its operations and for securing the sensitive details.



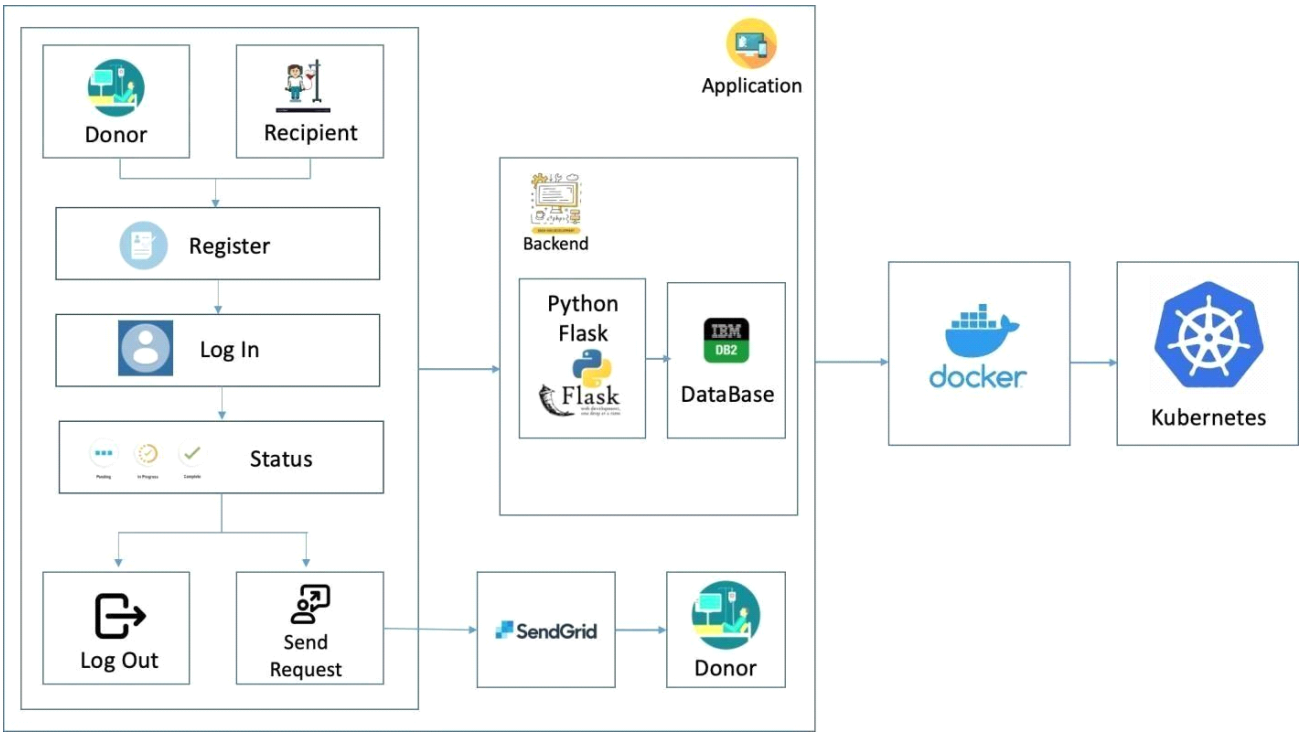
Data Flow Diagram:

- **PROJECT DESIGN**

Data Flow Diagram



Solution & Technical Architecture:



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 canregister for theapplication by entering my email, password, and confirmingmypassword.	I can access my account /dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation emailonce I have registered for theapplication	I can receive confirmationemail &click confirm	High	Sprint-1
		USN-3	As a user, I canregister for the application through Gmail	I can receive confirmation notifications through Gmail	Medium	Sprint-1
	Login	USN-4	As a user, I canlog into the application by entering email & password	I can access into myUser profile and view details indashboard	High	Sprint-1
	Dashboard	USN-5	As a user, I can send the proper requests todonate and obtain plasma.	I can receive appropriate notifications throughemail	High	Sprint-1
Customer(Web user)	Login	USN-6	As a user, I can register and log into the application by entering email & password toviewthe profile	I can access into myUser profile and view details indashboard	High	Sprint-1
	Dashboard	USN-7	As a user, I can send the proper requests todonate and obtain plasma.	I can receive appropriate notifications throughemail	High	Sprint-1

Customer Care Executiv e	Application	USN-8	As a customer care executive, Ican try to address user's concerns and questions	I can view and address their concerns	Mediu m	Sprint-2
Administrato r	Application	USN-9	As an administrator Ican help with user-facing aspects of a website, like its appearance ,navigation and use ofmedia.	I can change appearance friendly manner	Mediu m	Sprint-3
		USN-10	As an administrator, I can involve working withthe technical side ofwebsites.	I can help with such as troubleshooting issues, setting up web hosts, ensuring users have access an d programmingservers	Medium	Sprint-1

- **PROJECT PLANNING & SCHEDULING**

Sprint Planning & Estimation

Sprint	Functional Requireme nt (Epic)	Plasma Donor Application	User Story / Task	Story Points	Priority	Team members
Sprint-1	Registration	PDA-1	As a user, I can register for the application by entering my Name, email, password, confirming my password, Age, BloodGroup.	3	High	Akash
Sprint-3		PDA-2	As a user, I will receive confirmation email onceI have registered for theapplication	3	Medium	JeyaChandran
Sprint-2		PDA-3	As a user, I can register for	5	Medium	Thirupathi

			theapplicationthrough Gmail			
Sprint-1	Login	PDA-4	As a user, I can log into the application byentering email and password	2	High	Vasan Kumar
Sprint-3		PDA-5	As a user, I can reset mypassword using Forgot Password option	4	Medium	Akash
Sprint-4		PDA-6	As a user, I can view mypast requests for plasmadonation	3	Low	Jeya Chandran
Sprint-4		PDA-7	As a user, I can close past requests I made for plasma	2	Low	Thirupathi

Sprint-1	Home Page	PDA-8	As a user, I can view the homepage of thewebsite	2	Medium	Vasanth Kumar
Sprint - 1	About Page	PDA-9	As a user, I can view the about page on thewebsite and get information related to Plasma Donation	2	Medium	Akash
Sprint - 2	Register as Donor	PDA-11	As a user, I can register as a donor by submitting a form and uploading certificate of recovery fromCovid-19	3	High	Jeya Chandran
Sprint	Functional Requirement(Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members

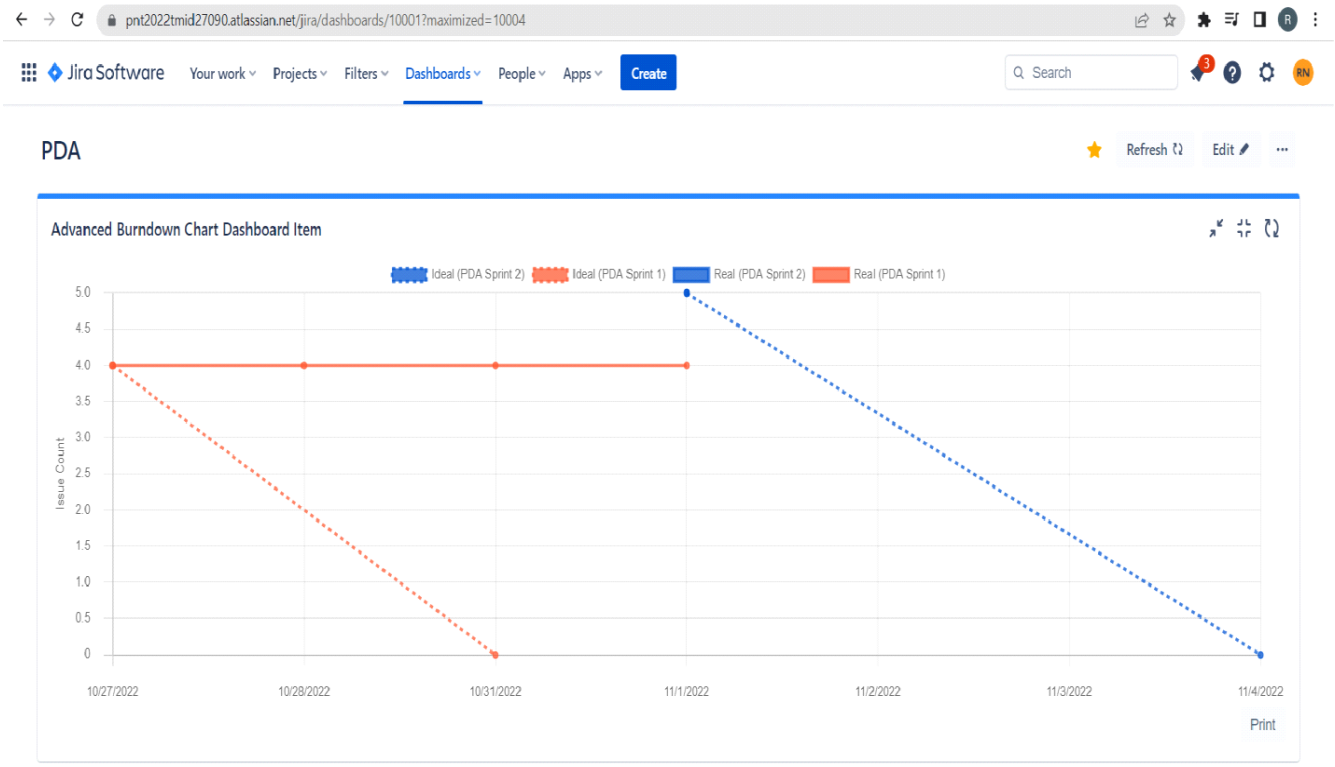
Sprint-2	Send Request	PDA-12	As a user, I can raise a request forplasma donation withspecific requirements through the requestpage.	2	High	Thirupathi
Sprint-3	View Requests	PDA-13	As a user, I can view requests for plasmadonation verified by admin	4	Medium	Vasanth Kumar
Sprint-4	Maintenance	PDA-14	As an admin, I can maintain the databasesinvolved	2	Medium	Akash
Sprint-2		PDA-15	As an admin, I can view all requests forplasma donation	1	High	Jeya Chandran

	Handle Requests					
Sprint-4		PDA-16	As an admin, I can delete requeststhat are past some timeperiod or have been closed	3	Low	Thirupathi
Sprint-2	Solving User Queries	PDA-17	Creating a ChatBot that helps to solve thequeries of the user.	2	High	Vasanth Kumar

Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	5 Days	27 Oct 2022	31 Nov 2022	8	03 Nov 2022
Sprint-2	13	4 Days	01 Nov 2022	06 Nov 2022	12	07 Nov 2022
Sprint-3	11	5 Days	07 Nov 2022	12 Nov 2022	11	09 Nov 2022
Sprint-4	9	5 Days	14 Nov 2022	19 Nov 2022	8	15 Nov 2022

Reports from JIRA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Jira Software
Your work
Projects
Filters
Dashboards
People
Apps
Create
Search
PDA
Refresh
Edit
Advanced Burndown Chart Dashboard Item
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Real (PDA Sprint 1)
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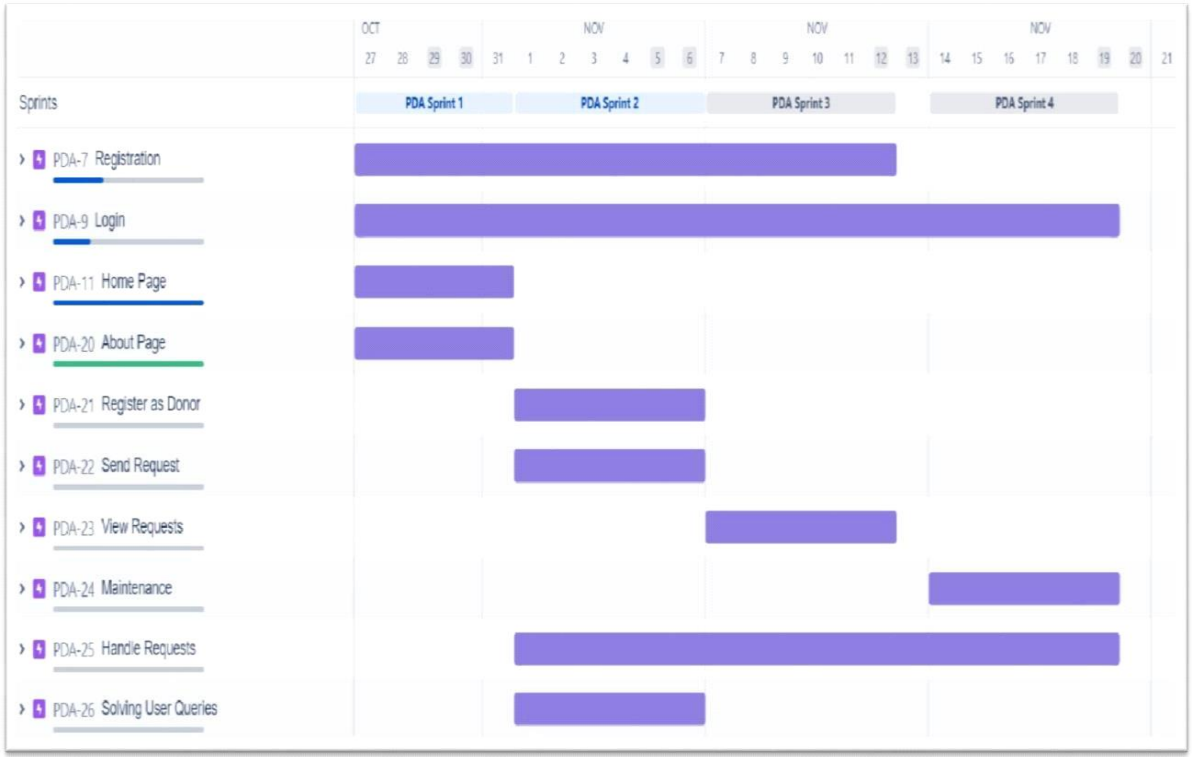
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Sprints
PDA Sprint 1
PDA Sprint 2
PDA Sprint 3
PDA Sprint 4
PDA-7 Registration
PDA-9 Login
PDA-11 Home Page
PDA-20 About Page
PDA-21 Register as Donor
PDA-22 Send Request
PDA-23 View Requests
PDA-24 Maintenance
PDA-25 Handle Requests
PDA-26 Solving User Queries

7 CODING & SOLUTIONING

FEATURE 1:

Python

It is a high-level, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significantindentation.[33]

Python is dynamically-typed and garbage-collected. It supportsmultiple programming paradigms, including structured (particularly procedural), object-oriented HYPERLINK "https://en.wikipedia.org/wiki/Object-oriented_programming" HYPERLINK "https://en.wikipedia.org/wiki/Object-oriented_programming" HYPERLINK "https://en.wikipedia.org/wiki/Object-oriented_programming" and functional HYPERLINK "https://en.wikipedia.org/wiki/Functional_programming" HYPERLINK "https://en.wikipedia.org/wiki/Functional_programming" HYPERLINK "https://en.wikipedia.org/wiki/Functional_programming" HYPERLINK

"https://en.wikipedia.org/wiki/Functional_programming" HYPERLINK "https://en.wikipedia.org/wiki/Functional_programming" HYPERLINK "https://en.wikipedia.org/wiki/Functional_programming"programming.

It is often described as a "batteries included" language due to itscomprehensive standard HYPERLINK "https://en.wikipedia.org/wiki/Standard_library" HYPERLINK "https://en.wikipedia.org/wiki/Standard_library" HYPERLINK "https://en.wikipedia.org/wiki/Standard_library" HYPERLINK "https://en.wikipedia.org/wiki/Standard_library" HYPERLINK "https://en.wikipedia.org/wiki/Standard_library" HYPERLINK "https://en.wikipedia.org/wiki/Standard_library"library.[34] HYPERLINK "https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-About-34" HYPERLINK "https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-About-34" HYPERLINK "https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-About-34"[35]

Guido van Rossum began working on Python in the late 1980s as a successor to the ABC HYPERLINK "https://en.wikipedia.org/wiki/ABC_(programming_language)" HYPERLINK "https://en.wikipedia.org/wiki/ABC_(programming_language)" HYPERLINK "https://en.wikipedia.org/wiki/ABC_(programming_language)" HYPERLINK "https://en.wikipedia.org/wiki/ABC_(programming_l

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Python 2.0 was released in 2000 and introduced new features such as list comprehensions, cycle-detecting garbage collection, referencecounting, and Unicode HYPERLINK "https://en.wikipedia.org/wiki/Unicode" HYPERLINK "https://en.wikipedia.org/wiki/Unicode" HYPERLINK "https://en.wikipedia.org/wiki/Unicode" support.

Python 3.0, released in 2008, was a major revision that is not

completely backward HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility" HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility" HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility"- HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility" HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility" HYPERLINK "https://en.wikipedia.org/wiki/Backward_compatibility"compatible with earlier versions. Python 2 was discontinued with version 2.7.18 in 2020.[37]

Python consistently ranks as one of the most popularprogramming languages

FEATURE 2:

Flask

Flask is a micro web HYPERLINK "https://en.wikipedia.org/wiki/Web_framework" HYPERLINK "https://en.wikipedia.org/wiki/Web_framework" HYPERLINK "https://en.wikipedia.org/wiki/Web_framework" HYPERLINK "https://en.wikipedia.org/wiki/Web_framework" HYPERLINK "https://en.wikipedia.org/wiki/Web_framework" HYPERLINK

"https://en.wikipedia.org/wiki/Web_framework"framework written in Python. It is classified as a micro framework HYPERLINK "https://en.wikipedia.org/wiki/Microframework" HYPERLINK "https://en.wikipedia.org/wiki/Microframework" HYPERLINK "https://en.wikipedia.org/wiki/Microframework" because it does not require particular toolsor libraries.[2]

It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide commonfunctions.

However, Flask supports extensions that can add applicationfeatures as if they were implemented in Flask itself. Extensions exist for object HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping"- HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping"relational HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93rel

ational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping" HYPERLINK "https://en.wikipedia.org/wiki/Object%E2%80%93relational_mapping"mappers, form validation, upload handling, various open authentication technologies and several common framework relatedtools.

Database SchemaIBM Db2 -

a hybrid ANSI-compliant data virtualization tool for accessing,querying and summarizing data across the enterprise which:

• Provides a massively parallel processing (MPP) architectureExploits Hive, HBase and Apache Spark concurrently for best-in-class analytic capabilities

• Requires only a single database connection or query to connect disparate sources such as HDFS, RDMS, NoSQL databases, object stores andWeb HDFS

• Provides low latency support for ad-hoc and complex queries,high performance, and federation capabilities

• Understands dialects from other vendors and various productsfrom Oracle, IBM® Db2® and IBM Netezza®

• Enables advanced row and column security

KUBERNATES-

Kubernetes — also known as ―k8s‖ or ―kube‖ — is a container orchestration platform for scheduling and automating the deployment,management, and scaling of containerized applications.

Kubernetes was first developed by engineers at Google before being open sourced in 2014. It is a descendant of Borg, a container orchestration platform used internally at Google. Kubernetes is Greek for *helmsman* or *pilot*, hence the helm in the (link residesoutside IBM).

Today, Kubernetes and the broader container ecosystem are maturinginto a general-purpose computing platform and ecosystem that rivals — if notsurpasses — virtual machines (VMs) as the basic building blocks of modern cloud infrastructure and applications.

This ecosystem enables organizations to deliver a high- productivity Platform-as-a-Service (PaaS) that addresses multipleinfrastructure-related and operations-related tasks and issues surrounding cloud-native development so that development teams can focussolely on coding and innovation.

8 TESTING

TESTING CASE:

The purpose of testing is to discover errors. Testing is the process of 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 specifictesting requirement

ACCEPTANCE TESTING

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 eachseveritylevel, 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

- Test Case Analysis

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

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

PERFORMANCE METRICS:

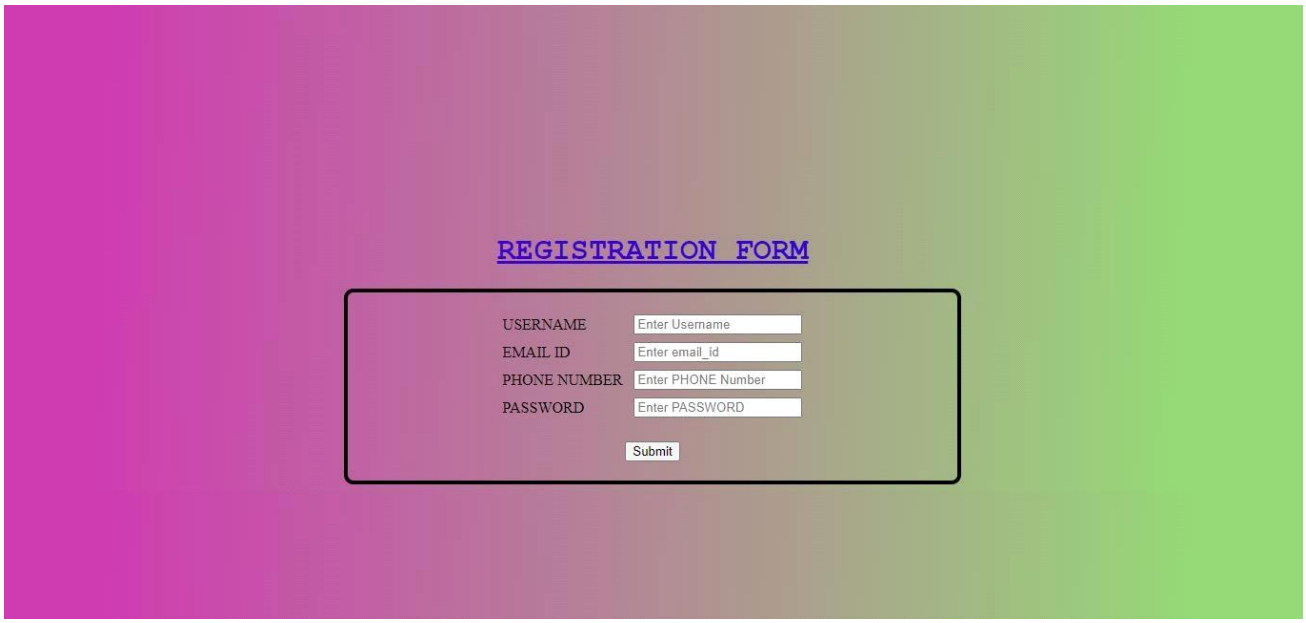
- Project metrics are used to track the progress andperformance of a project.

- ❿ Monitoring parts of a project like **productivity, scheduling, and scope** make it easier for team leadersto see what's on track.
- ❿ As a project evolves, managers need access to changingdeadlines or budgets to meet their client's expectations

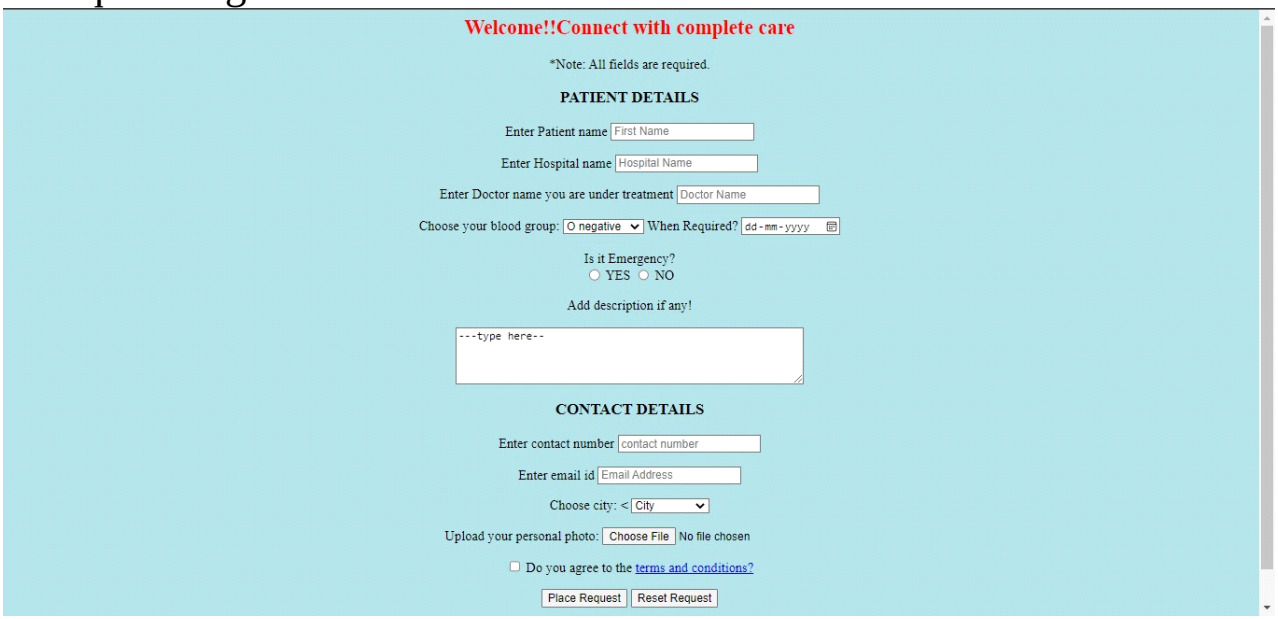
OUTPUT SCREENS:

Login Page

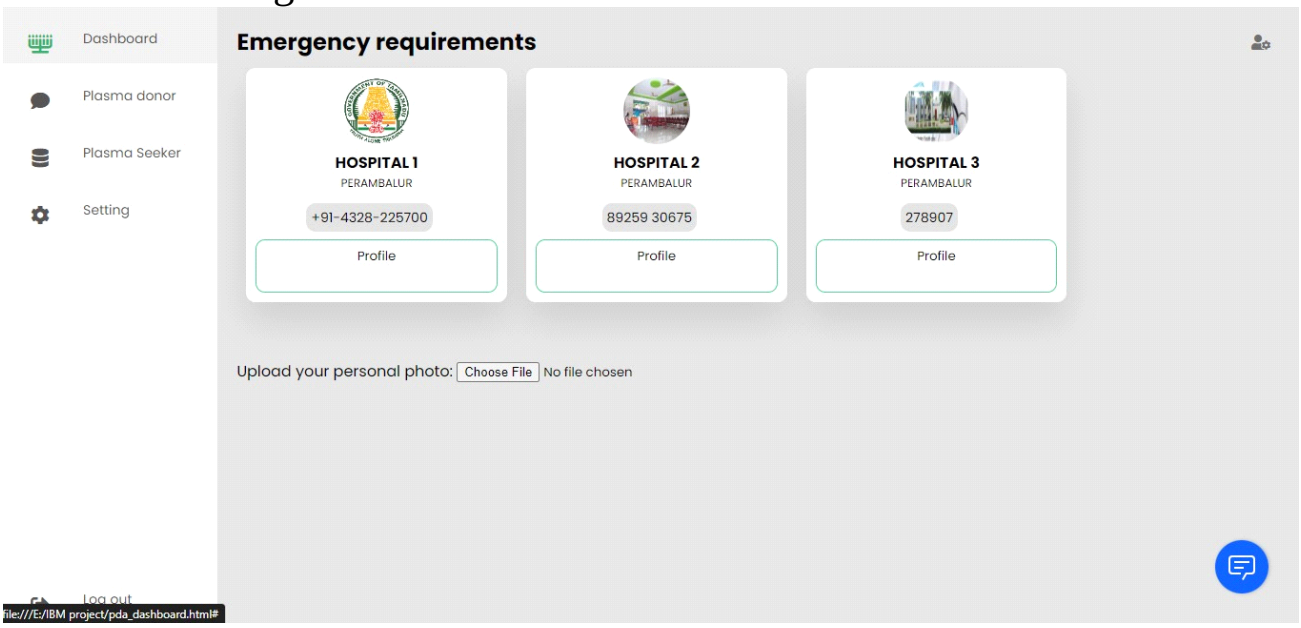
Register Page:



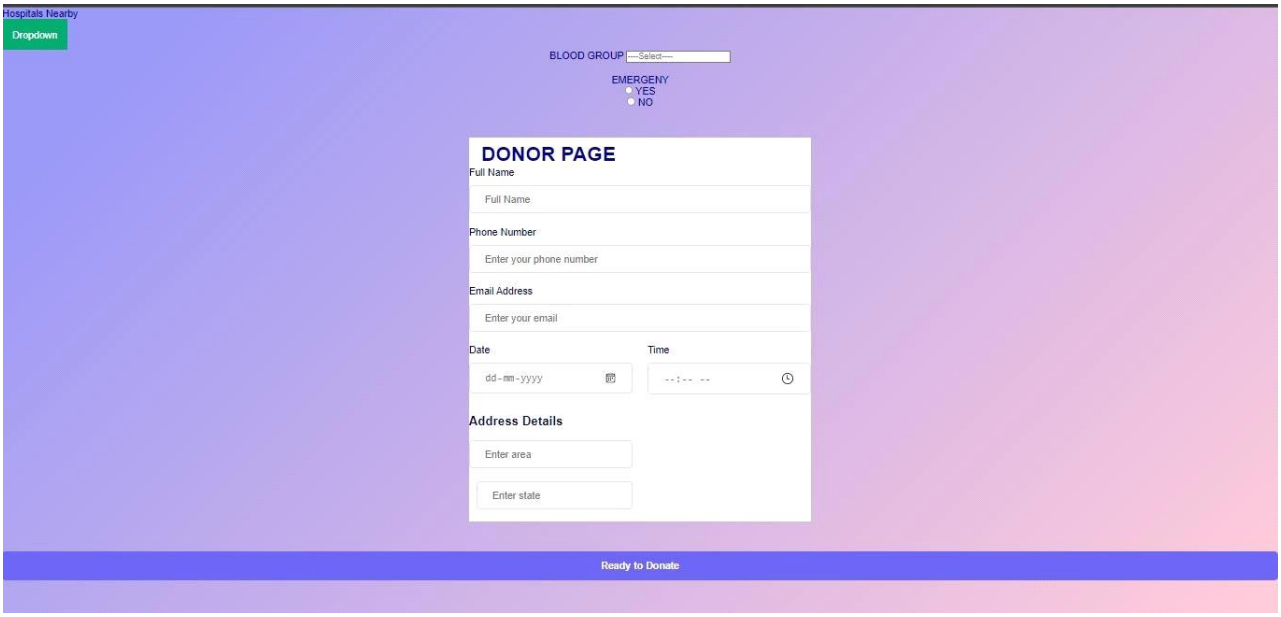
Request Page:



Dashboard Page:



Plasma Donor Page



Send grid:

IBM Db 2

10 ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- **Speed**: This website is fast and offers great accuracy ascompared to manual registered keeping.
- **Maintenance** : Less maintenance is required
- **User Friendly**: It is very easy to use and understand. It iseasily workable and accessible for everyone.
- **Fast Results**: It would help you to provide plasma donorseasily depending upon the availability of it.

DISADVANTAGES:

- **Internet**: It would require an internet connection for theworking of the website.
- **Auto- Verification**: It cannot automatically verify the genuineusers.

. 11 CONCLUSIONS

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

To ensure the smooth functioning of the web site operation. I have hosted the website in IBM Db2 & Kubernates Cluster to make surethe 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 helpmany 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 websitewith negligible downtime.

Source code:

Login Page:

```
<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>Login</title>
</head>

<style>
```

```
body {
font-family: Georgia, 'Times New Roman', Times, serif; background-image: url("https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcSuf06V3IAppe36LZG6IzjIjG7GnnWHInt0SA&usqp=CAU");
background-repeat: no-repeat;
background-position: center; background-size: cover; position: fixed;
top: 0;
left: 0;

/* Preserve aspet ratio */ min-width: 100%;
min-height: 100%;
}



button:hover {
background-color: darkgray; border-color: black;
}

h1 {
font-family: 'Courier New', Courier, monospace; color: rgb(0, 0, 0);
top: 10em;
}

.container1 {
border: 6px solid black; border-color: black; border-radius: 10px; width: 400px;
padding: 16px;

}

.top {
margin-top: 100px;

}

input:hover {
border-color: rgb(25, 20, 20);
}

a {
text-decoration: none;
}
```

```
a:link {
color: #0c0c0c;
text-decoration: underline;
}

a:visited {
color: rgb(92, 112, 215); text-decoration: none;
}

a:hover {
color: rgb(128, 105, 255); text-decoration: none;
}

a:active {
color: rgb(75, 202, 155); text-decoration: none;
}
</style>

<body>
<center>
<h1 class="top"></h1>
<div class="container1">
<br>
<h1>LOGIN</h1>

<table>
<tr>
<td><label for="text">USERNAME</label></td>
<td><input type="text" name="username" placeholder="ENTER USERNAME" /></td>
</tr>
<tr>
<td><label for="text">PASSWORD</label></td>
<td><input type="text" name="password" placeholder="ENTER PASSWORD"></td>
</tr>
</table>
<br>
<button onclick ="location.href='pda_welcomepage.html';">SUBMIT

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

```
<br> <br> <b><a href="pda_register.html">SIGN UP</a></b></label>
</center>
</body>

</html>
```

Register Page:

```
<!DOCTYPE html>
<html>

<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>REGISTRATION PAGE</title>
</head>
<style>
body {
background-image: linear-gradient(92.7deg, rgb(201, 59, 173) 8.5%, rgb(146, 211, 116) 90.2%); font-family:
'Times New Roman', Times, serif;
}

input:hover {
border-color: rgb(25, 20, 20);
}

button:hover {
background-color: darkgray; border-color: black;
}

h1 {
font-family: 'Courier New', Courier, monospace; color: rgb(53, 2, 206);
text-decoration: underline;
}

.container2 {
border: 4px solid black; border-color: black; border-radius: 10px; width: 600px;
padding: 20px;

}
```

```
#qwerty {
margin-top: 15em;
}
</style>

<body>
<center id="qwerty">
<H1>REGISTRATION FORM</H1>
<div class="container2">
<!-- -->

<table>
<tr>
<td><label for="text">USERNAME</label></td>
<td> </td>
<td><input type="text" placeholder="Enter Username" name="username" id="username"></td>
</tr>
<tr></tr>

<tr></tr>
<tr>
<td><label for="text">EMAIL ID</label></td>
<td> </td>
<td><input type="text" placeholder="Enter email_id" name="email_id" id="email_id"></td>
</tr>
<tr></tr>
<tr></tr>
<tr>
<td><label for="text">PHONE NUMBER</label></td>
<td> </td>
<td><input type="text" placeholder="Enter PHONE Number" name="phone_no" id="phone_no"
maxlength="10"></td>
</tr>
<tr></tr>
<tr></tr>
<tr>
<td><label for="text">PASSWORD</label></td>
<td> </td>
<td><input type="text" placeholder="Enter PASSWORD" name="password" id="password"></td>
</tr>
```

```
<tr></tr>
<tr></tr>
</table>
<br>
<center><button onclick="location.href='pda_loginpage.html';">Submit
</center>

</center>
</body>
<script>
function asd() {
var username1 = document.getElementById("username"); var email_id = document.getElementById('email_id');
var phone_no = document.getElementById('phone_no'); var password = document.getElementById('password');
if (username1.value == "" || phone_no.value == "" || password.value == "") { username.style.borderColor =
"red";
}
else if (email_id.value == "") { email_id.style.borderColor = "red";
}
else if (phone_no.value == "") { phone_no.style.borderColor = "red";
}
else if (phone_no.value == "") { password.style.borderColor = "red";
}



}



</script>

</html>
```

Register Page:

```
<!DOCTYPE html>
<html>

<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>REGISTRATION PAGE</title>
</head>
<style>
    body {
        background-image: linear-gradient(92.7deg, rgb(59, 170, 201) 8.5%, rgb(246, 244, 198) 90.2%);
        font-family: 'Times New Roman', Times, serif;
    }

    input:hover {
        border-color: rgb(25, 20, 20);
    }

    button:hover {
        background-color: dark blue;
        border-color: black;
    }

    h1 {
        font-family: 'Courier New', Courier, monospace;
        color: darkolivegreen;
    }

    #qwerty {
        margin-top: 15em;
    }
</style>

<body>
    <center id="qwerty">
        <H1>REGISTRATION FORM</H1>
        <!--  -->
        <form action="http://localhost:5000/register" method="POST">
            <table>
                <tr>
                    <td><label for="text">USERNAME</label></td>
                    <td> </td>
                    <td><input type="text" placeholder="Enter Username" name="username" id="username"></td>
                </tr>
```

```
            <tr></tr>
            <tr></tr>
            <tr>
               <td><label for="text">EMAIL ID</label></td>
               <td> </td>
               <td><input type="text" placeholder="Enter email id" name="email_id" id="email_id"></td>
            </tr>
            <tr></tr>
            <tr></tr>
            <tr>
               <td><label for="text">PHONE NUMBER</label></td>
               <td> </td>
               <td><input type="text" placeholder="Enter phone number" name="phone_no" id="phone_no"></td>
            </tr>
            <tr></tr>
            <tr></tr>
            <tr>
               <td><label for="text">PASSWORD</label></td>
               <td> </td>
               <td><input type="text" placeholder="Enter password" name="password" id="password"></td>
            </tr>

            <tr></tr>
            <tr></tr>
         </table>
         <br>
         <center><button onclick="asd()" type="submit">Submit</button>
         </center>
      </form>
   </center>
</body>
<script>
   function asd() {
      var username1 = document.getElementById("username");
      var email_id = document.getElementById('email_id');
      var phone_no = document.getElementById('phone_no');
      var password = document.getElementById('password');
      if (username1.value == "" || phone_no.value == "" || password.value == "") {
```

```
        username.style.borderColor = "red";
    }
    else if (email_id.value == "") {
        email_id.style.borderColor = "red";
    }
    else if (phone_no.value == "") {
        phone_no.style.borderColor = "red";
    }
    else if (phone_no.value == "") {
        password.style.borderColor = "red";
    }



}



</script>

</html>
```

Footer

Home Page:

```
<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">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

    <title>WELCOME</title>
</head>
<style>
    h1 {
        font-family: 'Courier New', Courier, monospace;
        color: darkolivegreen;
        top: 10em;
    }

    body {
```

```
        background-image: linear-gradient(92.7deg, rgb(59, 170, 201) 8.5%, rgb(246, 244, 198) 90.2%);
        font-family: 'Times New Roman', Times, serif;
    }




    a:hover {
        color: rgb(128, 105, 255);
        text-decoration: none;
    }

    .font {
        color: rgb(141, 18, 100);
        font: bold;
        font-size: 27px;
    }


    #top {
        margin-top: 200px;
    }
</style>

<body>
    <center>
        <H1 id="top">LOGIN SUCCESSFUL</H1>
        <table>
            <tr class="font">
                <td>WELCOME</td>
                <td> </td>
                <td>{{username}}</td>
            </tr>
            <!-- <tr class="font">
                <td>EMAIL_ID</td>
                <td> </td>
                <td>{{email_id}}</td>
            </tr>
            <tr class="font">
                <td>PHONE NO</td>
                <td> </td>
                <td>{{phone_no}}</td> -->
```

```
        <!-- </tr> -->
      </table>
      <table>
        <tr>
          <h1>CONNECT with python to DB2</h1>
        </tr>
        <tr>
          <td>
            <label"><a href="https://in.linkedin.com/company/ibm"><i class="fa fa-linkedin-square"
                  style="font-size:36px"></i></a></label>
          </td>
        </tr>
        <tr>
          <td><a href="https://www.instagram.com/ibm/?hl=en"><i class="fa fa-instagram"
                style="font-size:36px"></i></a></td>
        </tr>

        <tr>
          <td><a href="https://www.facebook.com/IBM/"><i class="fa fa-facebook" style="font-
size:36px"></i></a>
          </td>
        </tr>
        <tr>
          <td><a href="https://twitter.com/ibm?lang=en"><i class="fa fa-twitter" style="font-
size:36px"></i></a>
          </td>
        </tr>
      </table>

      </table>
    </center>


</body>

</html>
```

Footer

Dashboard:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>IBM 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='style.css') }}">
</head>
<style>
                .big{
                top:70px;
                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="/logout">Logout</a></li>

        </ul>
</div>
 <br>
 <div class="big">
  <div class="box">
                    <div class="ext1"><font size="20px">{{b['1']}}</font><br><b>Donors</b></div>
        </div>
 </div>
 <br>
 <div class="row">
  <div class="col" >
                    <div class="ext">{{b['2']}}<br><b>O Positive</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['3']}}<br><b>A Positive</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['4']}}<br><b>B Positive</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['5']}}<br><b>AB Positive</b></div>
        </div>
 </div>
 <br>
 <div class="row">
  <div class="col" >
                    <div class="ext">{{b['6']}}<br><b>O Negative</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['7']}}<br><b>A Negative</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['8']}}<br><b>B Negative</b></div>
        </div>
  <div class="col" >
                    <div class="ext">{{b['9']}}<br><b>AB Negative</b></div>
        </div>
 </div>
 <div style="height:200px"></div>
</div>
</body>
</html>
```

Footer

try.py

```
from flask import Flask, render_template,request,redirect,url_for,session
import ibm_db
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=764264db-9824-4b7c-82df-
40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=32536;SECURITY=SSL;SSLServerCerti
ficate=DigiCertGlobalRootCA.crt;UID=ydk44341;PWD=eENReIXIS7xOOBBa","","")

app = Flask(__name__)
app.secret_key = b'_5#y2L"F4Q8z\n\xec]/'

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

@app.route('/register',methods=['GET', 'POST'])
def register():
    session['msg']=""
    if request.method == 'POST':
        name = request.form['name']
        email = request.form['email']
        password = request.form['newpassword']

        sql = "SELECT * FROM Members 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)

        if account:
            session['msg']= 'Account already exists'
            return redirect(url_for("login"))
        else:
            insert_sql = "INSERT INTO Members 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, password)
            ibm_db.execute(prep_stmt)
            session['msg']= 'Account created Successfully '
            return redirect(url_for("login"))


    return render_template('register.html')


@app.route('/login',methods=['GET', 'POST'])
def login():

    if request.method == 'POST':
        email = request.form['email']
        password = request.form['newpassword']
```

```
        sql = "SELECT * FROM Members WHERE Email =?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt,1,email)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_both(stmt)

        accounts=account


        if (account):
            if  (password == accounts['PASSWORD'] ):
                return render_template('accounts.html',name=account['NAME'])
            else :
                return render_template('login.html',msg='wrong Password')
        else :
            return render_template('login.html',msg='wrong credentials')


    else:
        return  render_template('login.html',msg=session['msg'])

@app.route('/view2')
def view2():
    return render_template('view2.html')

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

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

Github link:

https://github.com/IBM-EPBL/IBM-Project-49443-1660819023

Demo Link:

https://drive.google.com/file/d/1RthEZR8zI7LBFM3sIgSA9zcuA0omEZk-/view?usp=share_link