PROJECT REPORT PLASMA DONOR APPLICATION PROJECT ID- PNT2022TMID02226

TEAM MEMBERS:

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1. INTRODUCTION

1.1 Project Overview: -

There are more software technologies including languages and framework are used to develop our plasma-donor web application known as "PLASMA DONOR APPLICATION". These technologies including HTML, CSS along with PYTHON and IBM CLOUD for database are used. The python is computer programming language often used to create websites and software, automate task and conduct the data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs and isn't specialized for any specific problem.

Plasma is the liquid portion of blood. About 55% of our blood is plasma, and the remaining 45% are red blood cells, white blood cells and platelets that are suspended in the plasma. Plasma is about 92% water. Plasma is commonly given to trauma, burn and shock patients, as well as people with severe liver disease or multiple clotting factor deficiencies. It helps boost the patient's blood volume, which can prevent shock, and helps with blood clotting.

In a plasma-only donation, the liquid portion of the donor's blood is separated from the cells. Blood is drawn from one arm and sent through a high-tech machine that collects the plasma. The donor's red blood cells and platelets are then returned to the donor along with some saline. The process is safe and only takes a few minutes longer than donating whole blood.

Many of them need plasma if we donate plasma to others it will be useful for others and us also.

1.2 Purpose: -

In plasma donation we can donate plasma once at every 28 days. 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. The main purpose of the proposed system, the donor who wants to donate plasma can simply register and login a application in that they can be a donor and also they view the donations. It is simple and easy to use the Application.

2. LITERATURE SURVEY

2.1Existing Problem:

In a past it is not that people want to donate plasma, but because they have no idea about what is the procedure for donating plasma and where to donate. And also Required more human efforts in maintaining the branch related information. Manually to keep the accounts is also tedious & risky job & to maintain those accounts in ledgers for a long period is also very difficult.

2.2 References: -

| YEAR | TITLE | AUTHOR(s) | TECHNIQUE(s) | DRAWBACKS |
|------|--|---|--|---|
| | | | | |
| 2019 | Determines of plasma Donation | Antoine Beurel, Florence Terrade, J.P Lebaudy, Burno Dranic | Web Application, Database | This is system is basically focused on the donor not for receivers. |
| 2020 | Developing a plasma donor application using Function-asa- service in AWS | Aishwarya R Gowri Jain University, Department of MCA, computer science | Serverless , aws, plasma theory, covid19, dynamoDB, cloud | Internet: It would require an internet connection for the working of the website. Handle multiple requests at the same time |
| 2018 | Optimization of Blood Donor Information and Management System | K. Yamini, M. E(CSC), SVCET, Thirupachur, India R. Devi, Asst. Professor, SVCET, Thirupachur, India | Only Web Application only donor database | The accuracy of the location displayed on the map was beyond the scope of this Project. |

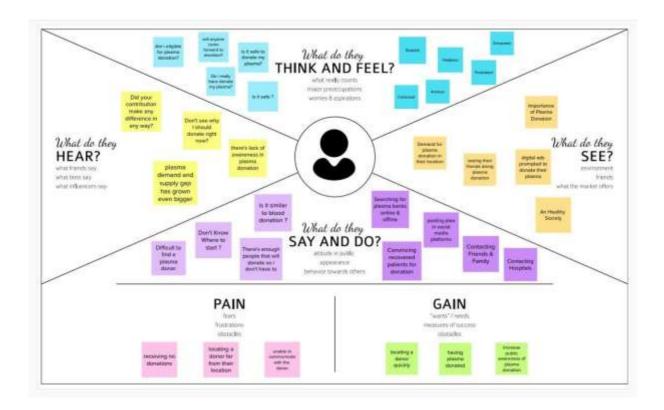
| 2021 | A Study on Blood Bank Management | A. Clemen Teena, K Sankar ,S. Kannan | Website | No search filter available UI improvem ent in Login page |
|------|--|---|--|--|
| 2021 | A Research Paper on Blood Donation Management System | Devanjan K. Srivastava Utkarsh Tanwa M.G.Krishna Rao Priya Manohar | Application But Less Database Used | There is no proper centralized database for registered donors .Internet Connection is mandatory |
| 2016 | BDoor App-Blood Donation application using android studio | S .periyana, yagi, A. Maikan | Android Fultter UI, Firebase | The android mobile user will not be able to insert or view details if the server goes down. Thus, there is disadvantage of single point failure. |
| 2019 | D'WORL D: Blood Donation App UsingAndroid | A. Meiyappan, K. Loga Vignesh, R. Prasanna,T. Sakthivel | Android, Global Positioning System (GPS), Mobile Computing | The user must have an device with android operating system with an active internet connection to interact with this application. |
| 2018 | Implementation of blood donation using smartphone | Ms. Pradnya Jagtap1 ,Ms. Monika Mandale2 ,Ms. Prachi Mhaske3 ,Ms. Sonali Vidhate4 ,Mr. S. S. Patil5 | Cloud Computing, GPS, Google Cloud Messaging, Clustering. | It is not Easy connecting donors and recipients makes less blood donation way more proficient. |
| 2017 | Instant plasma donor Recipient using Web Application | Kalpana Devi Guntoju, Sreeja Uppala | Web Application | The Application will be slow. |

2.3 PROBLEM DEFINITION:

This system aims at connecting the donors & the patients by an online application. By using this application, the users can either raise a request for plasma donation or requirement. Similar to blood donors there also exist plasma donors where there exists problems like in case of emergency needs the most important life saver necessity is plasma, Plasma Banks are the main providers of plasma who receives blood from various donors, monitors the plasma groups database of emergencies and makes them available to the hospital whenever needed. The major problem faced by the main plasma providers and the need is the availability of donors at the right time. We hereby took a step forward to build a system to create a network of people who can help each other in need. We propose an application where the plasma banks can timely update the plasma Stock availability and donor and register themselves to the donor and we find user plasma availability nearby him/her. The urgent time of a plasma requirement, users can quickly check for plasma banks, hospitals or donors as per requirement matching a particular or related and reach out to them through the App.

3 IDEATION & PROPOSED SOLUTION

3.1. Empathy Map Canvas:-



3.2 Ideation & Brainstroming:-

Plasma is used for the treatment of serious health problems. This is why there are blood drives asking people to donate blood, plasma. Plasma is utilized to treat different irresistible sicknesses and it is one of the most established strategies known as plasma treatment. During Coronavirus emergency the necessity for plasma expanded radically as there were no immunization found to treat the contaminated patients, with plasma therapy the recovery rates where high but the donor count was very low and in such situations it was very important to get the information about the plasma donors. Saving the contributor data and telling about the ongoing givers would be some assistance as it can save time and assist the clients with finding the vital data about the contributors.

3.3 Proposed Solution:-

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

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

Application contains two roles:

- Admin
- User

User:

- If the user wants to donate or receive they have to register with their personal details.
- After successful registration of user.
- A successful registration email is send to the user.
- After successful registration user will be directed to home page.
- They will be asked to press whether they will be donor or receiver.
- If the user is donor then he/she will fill the donation interest form which includes their Name, blood group details, location, last time donated date, phone number, email id.
- After filling the donation form he/she will redirected to page in which he/she can download the ecertificate.
- If the user is receiver then he/she can see the list of donors available and they can raise their request and contact donor directly.

Admin:

- Admin can login using their credentials.
- Admin can edit the request.
- Admin can delete the request.
- Admin can add volunteers.

3.4 Problem Solution Fit:-

Uniqueness:-

A User Interface is simple for users to understand. We can use the application anywhere anytime. The user immediately need the plasma for their treatment but the plasma is not available in nearby hospitals, then user can use this application to raise request and directly contact the donor, request them to donate the plasma. Hospitals can also raise request donors for donation. Somebody wants to donate blood and plasma but they don't know the way to donate then they use this application which will simple to use and it will save lives of many people. Today many of them have mobile phones they can install this application and use it to save the lives of people.

Social Impact / Customer Satisfaction:-

We are living in a modern world and everything can be accessed online. Even though there are many application there is no proper application for plasma donation . Many of them wish to donate blood and plasma but they are unaware about donation and how they can donate. This application provides opportunity to those who want to donate plasma. Donation of plasma are happening in many places many of them come forward to donate but it is not available at right time for use. Sometimes there is a shortage of plasma of particular type. Additional facilities that we need is to access the patients information quickly before plasma transfusion. To solve this issue software applications are employed with Cloud computing and Internet of Things tool which enable features such as information retrieval and continuous data tracking with analytics. This application avoids circulating of wrong information. A single platform for maintaining genuine information and increase the trust of participants involved int his activity. It increases the number of donors.

Business Model (Revenue Model):-

This application is accessible by everyone. It is free. Because of the trouble in finding givers who match a specific blood bunch, this application empowers clients to enlist individuals who wish to give plasma and keep their data in a data set. Nowadays the need for plasma increases. Anyone with basic knowledge can access this app. This can be used anywhere anytime. working with the government we can utilize an application to help those needing plasma.

Scalability of the Solution:

This application helps users to find plasma donors by sitting in home itself instead of searching donors everywhere. When there is a emergency then plasma request to send to everyone. Once the donor is ready to donate receiver is notified about donation. Receiver can contact the donor. With this app donor can know the eligibility to donate and making it easier to locate suitable donor at right time.

4. REQUIREMENT ANALYSIS

4.1. 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 Website |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | User Login | Login using Registered email Id |
| FR-4 | Sent Request | If plasma is required, the receiver will contact the donor |
| FR-5 | Contact Donor | Contact the donor directly if a phone number is given |
| FR-6 | View donation camps | View the list of donation camps happening nearby |

4.2. Non- Functional Requirements:-

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

| FR No. | Non-Functional Requirement | Description |
|-----------|-------------------------------|---|
| NFR- | Usability | The user interface of the plasma donorsystem must be well-designed and welcoming. |

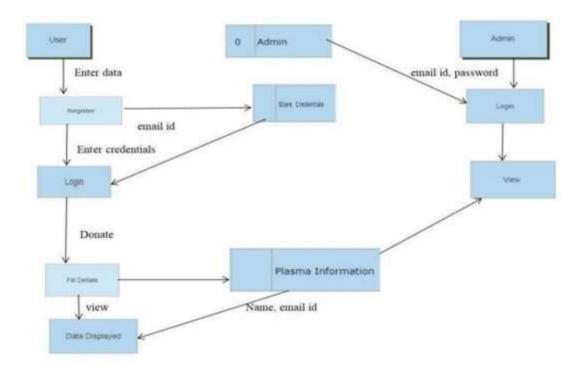
| NFR-2 | Security | Data storage is required by security systems, just like it is by many other applications. Databases are able to keep all the donor information that is viewed by applications. It must be secured with email Id and password. |
|-----------|--------------|---|
| NFR-3 | Reliability | The system has the ability to work all the times without failures apart from network failure. A donor can have the faith on the system. The authorities will keeps the privacy of all donors in a proper manner |
| NFR-4 | Performance | The Plasma donor System must perform well in different scenarios. The system is interactive and delays involved are less. |
| NFR- 5 | Availability | The system, including the onlinecomponents, should be available 24/7. |
| NFR- 6 | Scalability | The system offers the proper resources for issue solutions and is designed to protect sensitive information during all phases of operation. |

5. PROJECT DESIGN

5.1 Data Flow Diagrams: -

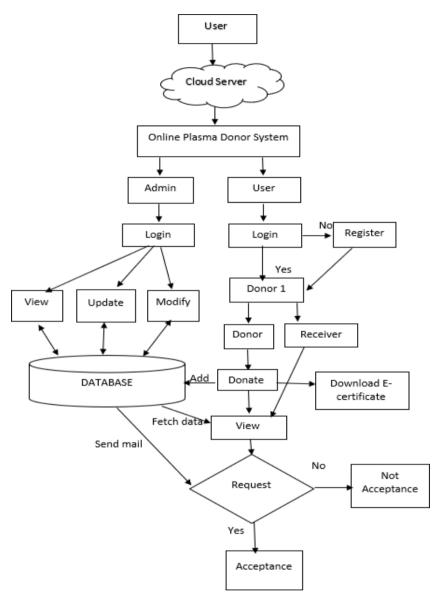
Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFDcan 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.

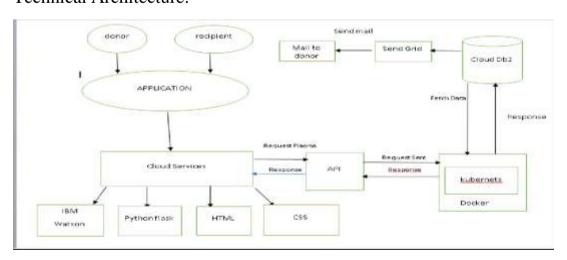


5.2 Solution & Technical Architecture: -

Solution Architecture: -



Technical Architecture:-



5.3 User Stories: -

| User Type | Functional Requir ement (Epic) | User Story Num ber | User Story / Task | Acceptance criteria | Priorit y | Release |
|-----------------------------------|---|-----------------------------|--|---|--------------|-----------|
| Customer (Mobi le user) | Registratio n | USN- 1 | As a user, I can register for the application by entering my email,password. | I can access my account dashboar d | High | Sprint-1 |
| | | USN- 2 | As a user, I will receive confirmationemail once I have registered for the application | I canreceive successful message | High | Sprint-1 |
| | Login | USN-3 | As a user, I can log into the application by entering email &password | I can access into myProfile and view my dashboard | High | Sprint-1 |
| | Dashboard | USN- 4 | As a user, I can login using my credentials and it will direct it to my dashboard | I can view and access what are the features are provided in dashboard | High | Sprint-1 |
| Custom e r (Webus e r) | | USN- 5 | As a user, I can login using my credentials and it will direct itto my dashboard | I can view and access what are the features are provided in dashboard | High | Sprint -1 |
| Custom erCare Executiv e | Query | USN- | any query about the given requirements | I can view a query and rectify the given query | Mediu m | Sprint-2 |

| Administrato r | Login | USN- | As a admin ,have credentials using that they can login | They can view and modify the data in database | Mediu m | Sprint-2 |
|-------------------|--------|-------|--|---|------------|----------|
| | View | USN-8 | As a admin I can view plasma information | View and modify | High | Sprint-1 |
| | Modify | USN-9 | As a admin I can modify the plasma information. | Modify only if there is a false information/ | Mediu m | Sprint-1 |

6. PROJECT PLANNING AND SCHEDULING

6.1 Sprint Planning

Sprints are the backbone of any good Agile development team. And the better prepared you are before a sprint, the more likely you are to hit your goals. Spring planning helps to refocus attention, minimize surprises, and (hopefully) guarantee better code gets shipped. The main event during agile methodology is the sprint, the stage where ideas turn into innovation and valuable products come to life. On one hand, agile sprints can be highly effective and collaborative. At the same time, they can be chaotic and inefficient if they lack proper planning and guidance. And for this reason, making a sprint schedule is one of the most important things you can do to ensure that your efforts are successful.

Project Tracker:

| 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- | 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 | 5 Nov 2022 |
| Sprint- | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint- | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |

Velocity Sprint – 1 to 4:

Image We have a 10 day sprint duration, and the velocity of team is 20 (points per sprint). Let's Calculate the team's average velocity(AV) per iteration unit(Story Pointers per day).

AV = Sprint duration / velocity= 20/10 = 2

Velocity:

$$AV = 20/6 = 3.333...$$

Sprint
$$1(AV) = 3.34$$

Sprint
$$2(AV) = 3.34$$

Sprint
$$3(AV) = 3.34$$

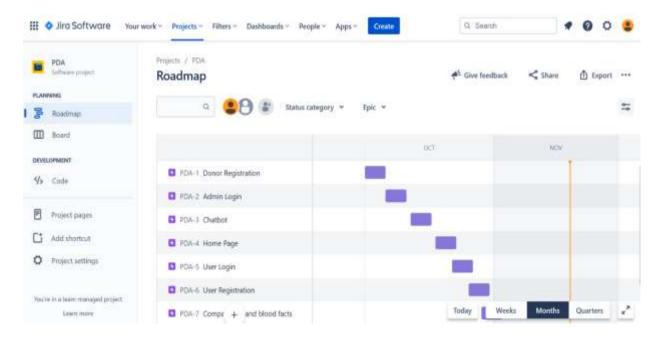
Sprint
$$4(AV) = 3.34$$

6.2 SPRINT DELIVERY SCHEDULE:

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|---------------|-------------------------------------|-------------------------|--|--------------|----------|--|
| Sprint- 1 | Donor Registration | USN-1 | As a user, I can register in the donor application by entering my name, phone_no, Email id, blood group ,aadhar no,address | 9 | High | Team Lead (M.Priyadharshini) |
| Sprint- 1 | Admin Login | USN-2 | As a admin, I can log into the application by entering email & password | 9 | High | Team Lead (M.Priyadharshini) |
| Sprint- 1 | Chatbot | USN-3 | As a user I can ask query in chatbot. | 2 | Medium | Team Member 1 (K.Priyadharshini) |
| Sprint -1 | Home Page | USN-4 | As a user I can view the home page | 9 | Medium | Team Lead (M.Priyadharshini) |
| Sprint -2 | User Login | USN-5 | As a user, I can login using my credentials | 10 | High | Team Lead (M.Priyadharshini) |
| Sprint – 2 | Registration | USN-6 | As a user, I can register in the application | 10 | High | Team Lead, Team Member 1 (M.Priyadharshini, K.Priyadharshini) |
| Sprint- 2 | Compatibility and blood facts | USN-7 | As a user, I can know about the blood facts and compatibility for donation | 5 | Medium | Team Member 3 (A.Pavithra priya) |
| Sprint- 2 | Eligibility | USN-8 | As a user, I can know about the eligibility | 4 | Medium | Team Member 2 (V.Prathiksha) |

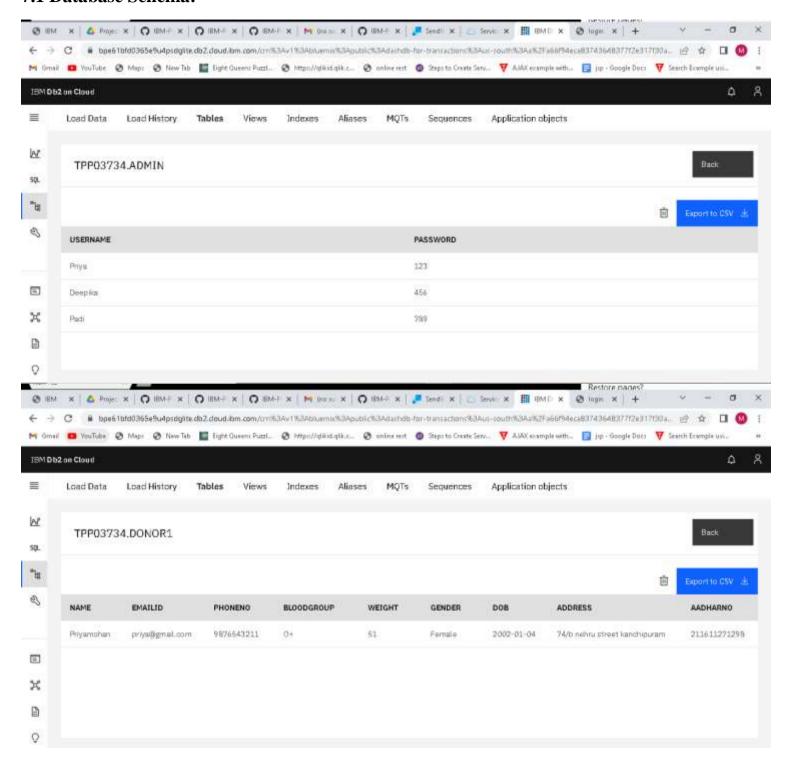
| Sprint- | View Donor List | USN-9 | As a user, I can view all the donor list and contact them directly | 9 | High | Team Lead (M.Priyadharshini) |
|--------------|-------------------------------------|-------------------------|--|--------------|----------|---|
| Sprint-3 | About us | USN-10 | As a User, I can view the about us page which contains all contact information | 5 | Medium | Team Member 2 (V.Prathiksha) |
| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
| Sprint- 3 | Modify data | USN-11 | As a admin, I can modify the User data. | 9 | High | Team Lead (M.Priyadharshini) |
| Sprint- 3 | Send mail | USN-12 | As a user, I can send mail to donors using sendgrid. | 5 | | Team Lead Team Member1 Team Member3 (M.Priyadharshini K.Priyadharshini,A.Pavithra priya) |
| Sprint- 4 | Delete data | USN-13 | As a admin I can delete the record. | 9 | Medium | Team Lead (M.Priyadharshini) |
| Sprint- 4 | Logout | USN-14 | As a admin I can logout from the application. | | | Team Lead (M.Priyadharshini) |
| Sprint -4 | Send Query | USN-15 | As a user I can ask my query through email. | 9 | Medium | Team Lead Team Member 3 (A.Pavithra priya) |
| Sprint- 4 | Download data | USN-16 | As a admin I can download the user data | 9 | High | Team Lead (M.Priyadharshini) |

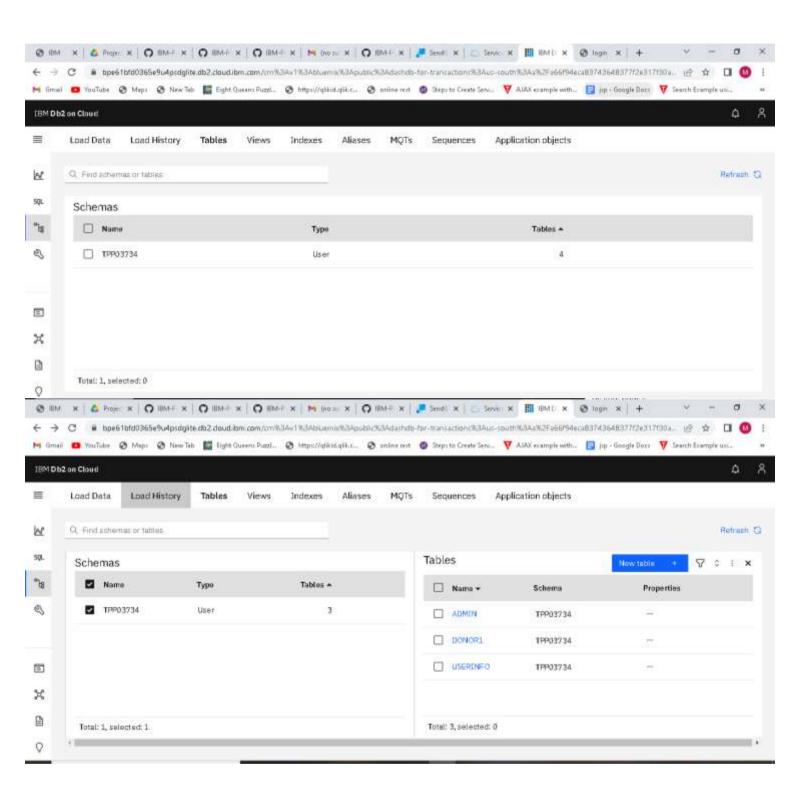
6.3 REPORT FROM JIRA

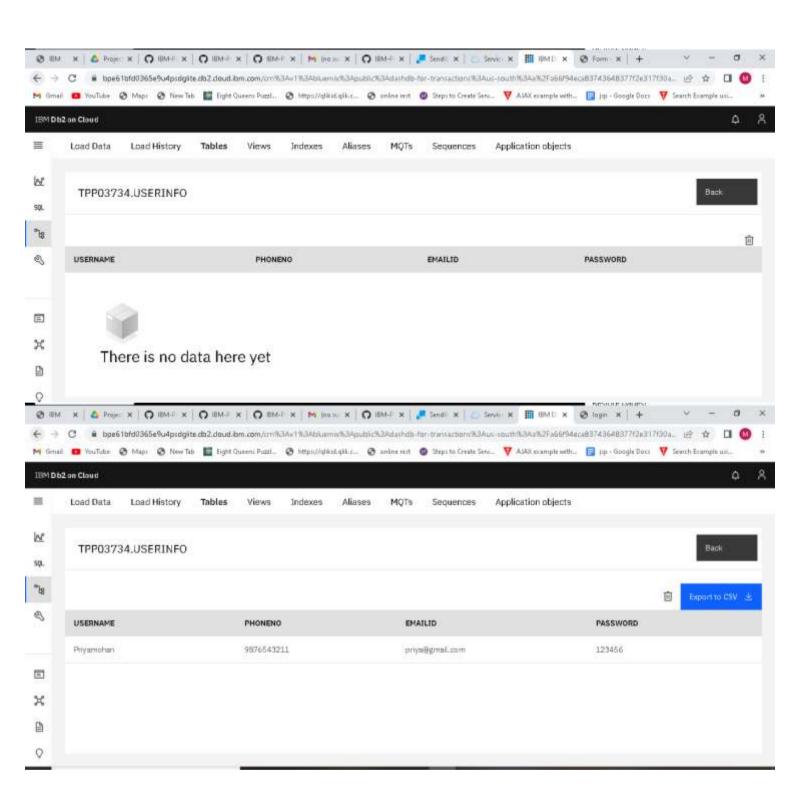


7. CODING AND SOLUIONING

7.1 Database Schema:







8. TESTING:

8.1 TEST CASE

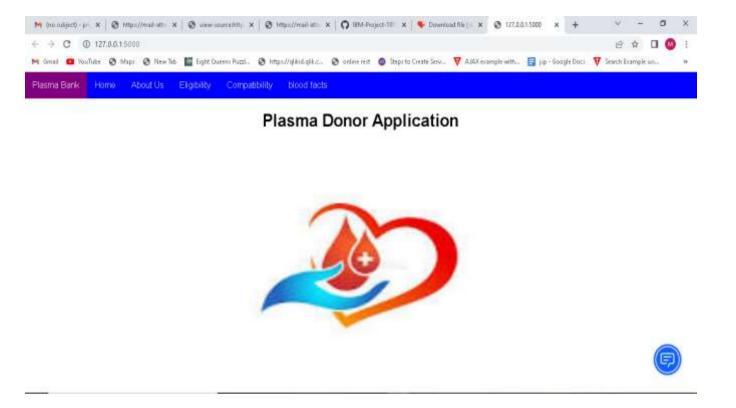
Authentication Module

- Sign Up New user or donor can create an account to use in the blood/plasma donor application and create a password for account verification and create an identity.
- Sign In Donor Sign In to the account for viewing or editing location details and any other personal information.
- Account Verification If donor changes their password or if they forget the password then we have to verify their account using mail verification.

8.2 Service Provider Module

- Add New Donor User can be able to register to add donor details.
- List All Donor User can be able to view all Donor who all use our Plasma Donor Application.
- Edit Customer Plan Details User can be able to edit the existing Donor details as the Donor wish.

Screen Layouts:



Login Page



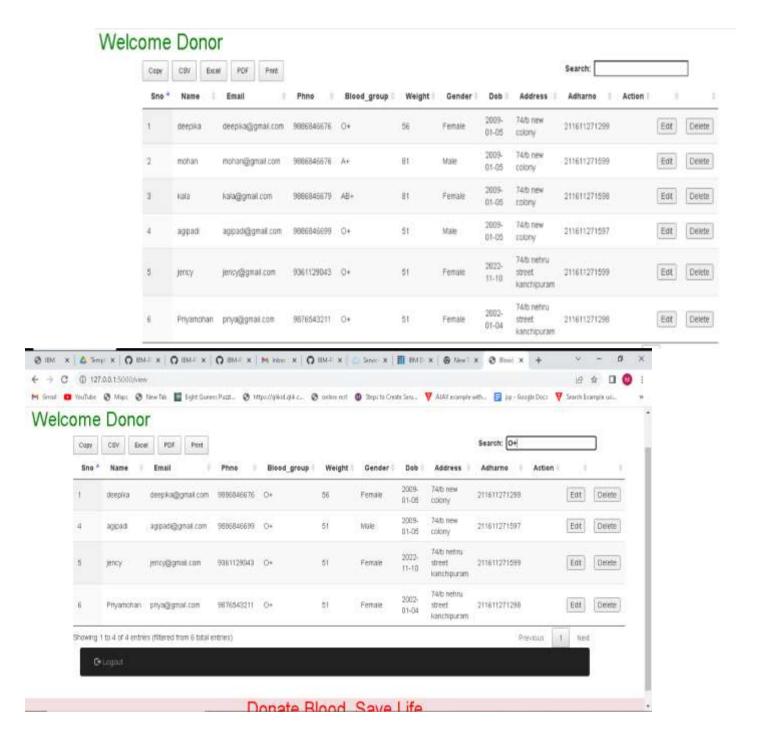
Register Page

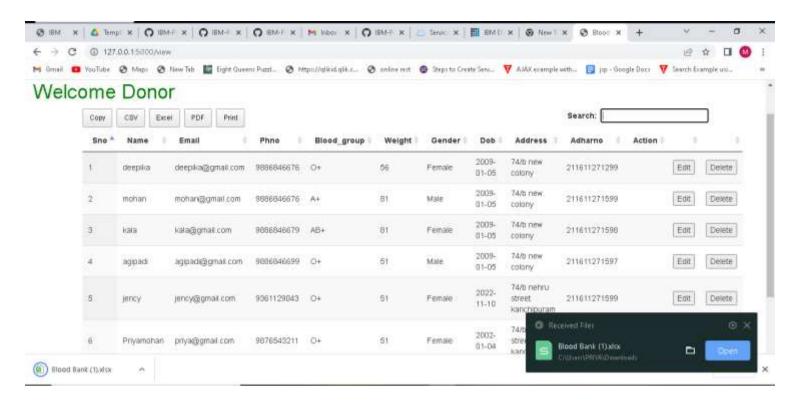


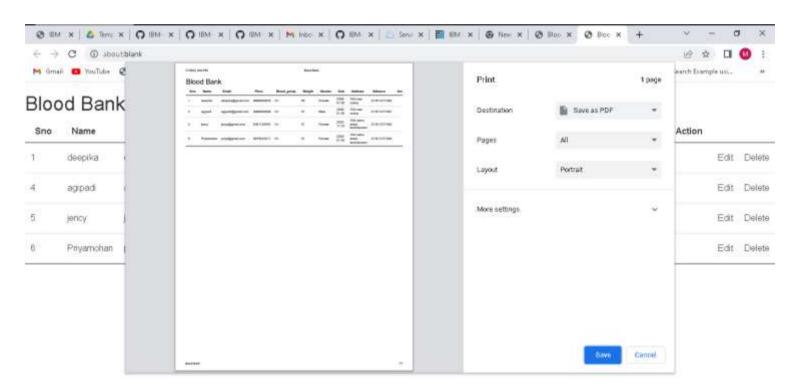
Home page



Request page

















9. RESULTS

9.1 Performance Metrices

- 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 Mainta ining 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. ADVANTAGES & DISADVANTAGES

Advantages:

- It is a user-friendly web application to help people who are affected by COVID19 donating plasma from patients who have recovered and help them recover faster.
 - The traditional methods of finding plasma, sometimes may not be available in this case the donor can use this website to donate plasma can simply upload their covid19 traced certificate and can donate the plasma to the blood bank, the blood bank can apply for the donor and once the donor has accepted the request, the blood bank can add the units they

need and the hospital can also send the request to the blood bank that urgently needs the plasma for the patient and can take the plasma from the blood bank

- It is a useful website to find compatible plasma donors who can receive plasma request posts in their local area. Clinics can use this web application to maintain the plasma donation activity.
 - It is reliable and safe application and keep track of total plasma donations.

Disadvantages:

- Absence and lack of integration between plasma centers
- The app user will not be able to insert or view details if the server goes down.

11.CONCLUSION

Today the world has become a global platform where every thing is online. There are so many web based solutions provided in the market for the comfort of the people. But without blood human being is non living, by providing the web solution of plasma management information system is just one more step in order to serve the mankind. Plasma donor application provides a reliable platform to connect local plasma donors with patients. This app creates a communication channel through authenticated clinics whenever a patient needs plasma donation. It is a useful tool to find compatible plasma donors who can receive plasma request posts in their local area. Clinics can use this web application to maintain the plasma donation activity. Plasma donation is the one way to lead a person a healthy life. This is because during the plasma donation our body will be replaced with new blood cell which have a better protein, from this website the plasma donors can get an awareness of importance of plasma donation and the plasma donors and the people in need for plasma.

Plasma donor application aims to act as an important role in saving life of human beings and reduce the panic created in emergency situations. It proposes a plasma donation application which can be used by laboratories, clinics, hospitals, or anyone who is in need of. It is developed such that users can view the information about registered plasma donors and plasma banks such as name, address, and phone number along with their details of blood group and other medical information. Not only does it connect users to different donors but also to plasma banks. This system is developed in order to enhance the management, performance and the quality of services for the management of plasma banks.

12. FUTURE SCOPE:

Plasma donation application is a software application to build in such a way that it should suits for all type of plasma banks in future. One important future scope is availability of location-based plasma bank details and extraction of location-based donor's detail, which is very helpful to the acceptant people. The scope of the plasma donation application are the management of the availability of donors, hospitals, blood banks to the user or member at any time. This application can be installed in ambulances in order to save time. This work proposes a plasma donation application which we believe will bring remarkable change. Plasma donation application is a software application to build in such a way that it should suits for all type of plasma banks in future. One important future scope is availability of location-based plasma bank details and extraction of location-based donor's detail, which is very helpful to the acceptant people. The scope of the plasma donation application are the management of the availability of donors, hospitals, blood banks to the user or member at any time. This application can be installed in ambulances in order to save time

12. APPENDIX:

Source Code:

login.html:

```
<!DOCTYPE html>
<html>
<head>
    <title>Login Here</title>
    <style>
body {

background-image:
url('https://www.freeiconspng.com/uploads/red-wave-line-png-8.png');
background-repeat: no-repeat;
background-attachment: fixed;
```

```
background-size: 100% 100%;
}
</style>
  <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
 <link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstra
p.min.css">
 k rel="stylesheet" type="text/css"
href="https://cdn.datatables.net/1.10.21/css/jquery.dataTables.min.cs
s">
 link rel="stylesheet" type="text/css"
href="https://cdn.datatables.net/buttons/1.6.2/css/buttons.dataTables.
min.css">
 <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js
"></script>
 <script type="text/javascript" src="https://code.jquery.com/jquery-</pre>
3.5.1.js"></script>
 <script type="text/javascript"</pre>
src="https://cdn.datatables.net/1.10.21/js/jquery.dataTables.min.js">
</script>
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src="https://cdn.datatables.net/buttons/1.6.2/js/dataTables.buttons.m"
in.js"></script>
 <script type="text/javascript"</pre>
src="https://cdn.datatables.net/buttons/1.6.2/js/buttons.flash.min.js"
></script>
 <script type="text/javascript"</pre>
src="https://cdnjs.cloudflare.com/ajax/libs/jszip/3.1.3/jszip.min.js">
</script>
 <script type="text/javascript"</pre>
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/pdfmake.
min.js"></script>
 <script type="text/javascript"</pre>
src="https://cdnjs.cloudflare.com/ajax/libs/pdfmake/0.1.53/vfs_fonts
.js"></script>
 <script type="text/javascript"</pre>
src="https://cdn.datatables.net/buttons/1.6.2/js/buttons.html5.min.js"
></script>
 <script type="text/javascript"</pre>
src="https://cdn.datatables.net/buttons/1.6.2/js/buttons.print.min.js">
```

```
</script>
 <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.
min.js"></script>
</head>
<body>
<div class="container" >
  <h1>Login page</h1>
<form class="form-horizontal" action="{{url_for('login')}}"
method="POST">
<div class="form-group">
  <label class="control-label col-sm-2"</pre>
for="pwd">Username:</label>
  <div class="col-sm-6">
   <input type="text" class="form-control" id ="Username"</pre>
name="Username" placeholder="Enter Username">
  </div>
</div>
<div class="form-group">
 <label class="control-label col-sm-2"</pre>
for="pwd">Password:</label>
 <div class="col-sm-6">
  <input type="Password" class="form-control" id ="Password"</pre>
name="Password" placeholder="Enter Password">
 </div>
</div>
<div class="form-group">
   <div class="col-sm-offset-2 col-sm-10">
   <button type="login" class="btn btn-default">Login/button>
   </div>
</div>
</form>
</div>
</body>
</html>
```

Receiver.html:

```
<html>
  <head>
     <title>Form validation </title>
     <style>
       body{
         background-color: rgb(135, 209, 222);
.topnav {
 overflow: hidden;
 background-color:blue;
.topnav a {
 float: left;
 color: #f2f2f2;
 text-align: center;
 padding: 14px 16px;
 text-decoration: none;
 font-size: 17px;
.topnav a:hover {
 background-color: skyblue;
 color: black;
}
.topnav a.active {
 background-color: purple;
 color: white;
}
    </style>
    <script>
         function validateForm()
           var uname =document.valform.Username.value;
           var phone =document.valform.Phone.value;
```

```
var email =document.valform.email.value;
           var Password = document.valform.Password.value;
             if(uname==""|| email==""|| Password==""||phone=="")
             alert("username/email/phone number / password /
must be filled");
             return false;
             if((phone.length<10)||isNaN(phone))
             alert("Phone must be 10 digit numeric");
             return false;
            var atposition=email.indexOf("@");
            var dotposition=email.lastIndexOf(".");
            if (atposition<1 || dotposition<atposition+2 ||
dotposition+2>=email.length)
            alert("Please enter a valid e-mail address \n
atpostion:"+atposition+"\n dotposition:"+dotposition);
            return false;
            if(Password.length<6)
            alert("password keep strong password");
            return false;
            }
       </script>
       </head>
<div class="topnav">
 <a class="active" href="/">Plasma Bank</a>
 <a href="/home">Home</a>
 <a href="/aboutus">About Us</a>
 <a href="/eligible">Eligibility</a>
 <a href="/compat">Compatibility</a>
 <a href="/facts">blood facts</a>
</div>
       <h1>User Registration Form</h1>
       <body>
```

<div class="new">

```
<form name="valform" method="POST" action="/regurl"</pre>
onsubmit="return validateForm()" >
       Username:
         <input type="text" name="Username"/>
       <br>
       <br>
       Phone No:
       <input type ="text" name="Phone"/>
       <br>
       <hr>>
       E-mail:
         <input type ="text" name="email"/>
       <br>>
       <br>
       Password:
         <input type ="password" name="Password"/>
       <br/>br>
       <br/>br>
         <input type="submit" value="Register user"</pre>
name="sumbit"/>
         <input type="reset" value="Reset" name="reset"/>
       </form>
</div>
    </body>
</html>
view.html:
{% extends "layout1.html" %}
{% block content %}
{% with messages = get_flashed_messages() %}
 {% if messages %}
 <script type="text/javascript">
  var m={{ messages|safe }};
  for(var i=0;i<m.length;i++)
   alert(m[i]);
```

```
}
</script>
{% endif %}
{% endwith %}
<thead>
    S ID
     Name
     Email
     Phone_no
     Blood_group
     Weight
     Gender
     <th>>Dob</th>
     Address
     Adharno
     Action
   </thead>
  {% for d in data %}
   {{loop.index}}
    {d[0]}
     {d[1]}
     {d[2]}
     {d[3]}
     {d[4]}
     {d[5]}
      \{ \{ d[6] \} \} 
     {d[7]}
     {d[8]}
     {d[10]}}
     <form action="{{url_for('send')}}" method="POST">
     <button value={{d[2]}} name="send">Send
sms</button>
```

```
</form>
        {% endfor %}
    <script type="text/javascript">
$(document).ready(function() {
  $('#example').DataTable( {
    dom: 'Bfrtip',
    buttons: [
      'copy', 'csv', 'excel', 'pdf', 'print'
  });
});
</script>
{% endblock %}
View2.html:
{% extends "layout.html" %}
{% block content %}
{% with messages = get_flashed_messages() %}
 {% if messages %}
 <script type="text/javascript">
 var m={{ messages|safe }};
 for(var i=0;i<m.length;i++)
   alert(m[i]);
 </script>
 {% endif %}
{% endwith %}
<thead>
```

```
Sno
   Name
   Email
   Phno
   Blood_group
   Weight
   Gender
   Dob
   Address
   Adharno
   Action
   </thead>
{% for d in data %}
 {{loop.index}}
  {d[0]}
   {d[1]}
  {d[2]}
   {d[3]}
   {d[4]}
   {d[5]}
  <\!\!td\!\!>\!\!\{\{d[6]\}\}<\!\!/td\!\!>
   {d[7]}
   {d[8]}
   {d[10]}}
   <form action="{{url_for('edit')}}" method="POST">
   <button value={{d[0]}} name="edit">Edit</button>
   </form>
   <form action="{{url_for('delete')}}" method="POST">
   <button value={{d[0]}} name="delete">Delete</button>
```

```
</form>
        {% endfor %}
    <script type="text/javascript">
$(document).ready(function() {
  $('#example').DataTable( {
    dom: 'Bfrtip',
    buttons: [
      'copy', 'csv', 'excel', 'pdf', 'print'
  });
});
</script>
<div class="container-fluid"> <!-- Header content -->
  <nav class="navbar navbar-inverse">
 <div class="container-fluid">
  <div class="navbar-header">
   <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#myNavbar">
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
    <span class="icon-bar"></span>
   </button>
  <div>
  <a href="{{url_for('logout')}}}"><span class="glyphicon"
glyphicon-log-out"></span> Logout</a>
  </div>
 </div>
 </div>
 </nav>
```

```
</div>
{% endblock %}
bloodbank.html:
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-</pre>
scale=1">
<style>
body {
 margin: 0;
 font-family: Arial, Helvetica, sans-serif;
 background-
image:url('https://www.google.com/imgres?imgurl=https%3A%2F
%2Fwww.nicepng.com%2Fpng%2Fdetail%2F364-3647802_blood-
symbol-png-blood-donation-app-
logo.png&imgrefurl=https%3A%2F%2Fwww.nicepng.com%2Four
pic%2Fu2e6w7t4w7i1u2r5_blood-symbol-png-blood-donation-app-
logo%2F&tbnid=25sGNMKwbS1zMM&vet=12ahUKEwiu1pf05aj
7AhUsKbcAHfSBDy8QMygHegUIARDlAQ..i&docid=n9y7wbdM
GguIWM&w=820&h=641&q=blood%20donation%20logo&hl=en
&ved=2ahUKEwiu1pf05aj7AhUsKbcAHfSBDy8QMygHegUIARD
1AQ');
 background-repeat:no-repeat;
 background-position: center;
  background-size: contain;
}
.topnav {
 overflow: hidden;
 background-color:blue;
}
.topnav a {
 float: left:
 color: #f2f2f2;
 text-align: center;
```

padding: 14px 16px; text-decoration: none;

```
font-size: 17px;
.topnav a:hover {
 background-color: skyblue;
 color: black;
}
.topnav a.active {
 background-color: purple;
 color: white;
</style>
</head>
<body>
<div class="topnav">
 <a class="active" href="/">Plasma Bank</a>
 <a href="/home">Home</a>
 <a href="/aboutus">About Us</a>
 <a href="/eligible">Eligibility</a>
  <a href="/compat">Compatibility</a>
 <a href="/facts">blood facts</a>
</div>
<h1 style="text-align:center;">Plasma Donor Application</h1>
<br>
src="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAA
D/<script>
 window.watsonAssistantChatOptions = {
  integrationID: "0fadad16-9e92-49e6-9693-e6de04e40ca1", // The
ID of this integration.
  region: "au-syd", // The region your integration is hosted in.
  serviceInstanceID: "4fd73f2a-8793-4211-ab2c-1cc826e989e7", //
The ID of your service instance.
  onLoad: function(instance) { instance.render(); }
 };
 setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
  document.head.appendChild(t);
```

```
});
</script>
</body>
</html>
Register.html:
{% extends "layout1.html" %}
{% block content %}
<h1>Registration page</h1>
<form class="form-horizontal" action="{{url_for('register')}}"
method="POST">
<div class="form-group">
  <label class="control-label col-sm-2" for="pwd">Name:</label>
  <div class="col-sm-6">
   <input type="text" class="form-control" id ="name"</pre>
name="name" placehloder="Enter Name" required>
  </div>
</div>
<div class="form-group">
 <label class="control-label col-sm-2" for="pwd">Email:</label>
 <div class="col-sm-6">
  <input type="email" class="form-control" id ="email"</pre>
name="email" placehloder="Enter Email" required>
 </div>
</div>
<div class="form-group">
 <label class="control-label col-sm-2" for="pwd">Phno:</label>
 <div class="col-sm-6">
   <input type="text" class="form-control" id ="phno"</pre>
name="phno" placehloder="Enter Phno" required>
  </div>
</div>
```

```
<div class="form-group">
 <label class="control-label col-sm-2" for="pwd">Blood
Group:</label>
 <div class="col-sm-6">
  <select class="form-control" id="blood_group"</pre>
name="blood_group">
   <option value="A+">A+</option>
   <option value="A-">A-</option>
   <option value="B+">B+</option>
   <option value="B-">B-</option>
   <option value="AB+">AB+</option>
   <option value="AB-">AB-</option>
   <option value="O+">O+</option>
   <option value="O-">O-</option>
   <option value="Don't know">Don't Know</option>
  </select>
 </div>
</div>
<div class="form-group">
 <label class="control-label col-sm-2" for="pwd">Weight:</label>
 <div class="col-sm-6">
  <input type="text" class="form-control" id ="weight"</pre>
name="weight" placeholder="Enter weight" required>
 </div>
</div>
<div class="form-group">
   <label class="control-label col-sm-2"</pre>
for="pwd">Gender:</label>
   <div class="col-sm-6">
   <label class="radio-inline"><input type="radio" name="gender"</pre>
value="Male">Male</label>
   <label class="radio-inline"><input type="radio" name="gender"</pre>
value="Female">Female</label>
   <label class="radio-inline"><input type="radio" name="gender"</pre>
value="Others">Others</label>
   </div>
</div>
```

```
<div class="form-group">
   <label class="control-label col-sm-2" for="pwd">dob:</label>
   <div class="col-sm-6">
   <input type="date" class="form-control" id ="dob" name="dob"</pre>
placehloder="Enter dob" required>
   </div>
</div>
<div class="form-group">
   <label class="control-label col-sm-2"</pre>
for="Address">Address:</label>
   <div class="col-sm-6">
   <input type="text" class="form-control" id ="address"</pre>
name="address" placehloder="Enter Address" required>
   </div>
</div>
<div class="form-group">
   <label class="control-label col-sm-2"</pre>
for="adharno">Adharno:</label>
   <div class="col-sm-6">
   <input type="text" class="form-control" id ="adharno"</pre>
name="adharno" placehloder="Enter Adharno" required>
   </div>
</div>
<div class="form-group">
   <div class="col-sm-offset-2 col-sm-10">
   <button type="submit" class="btn btn-default">Submit</button>
   </div>
</div>
</form>
{% endblock %}
```

GITHUB LINK

https://github.com/IBM-EPBL/IBM-Project-19159-1659693897

VIDEO LINK

 $https://drive.google.com/file/d/1jCVmNrgxwTgVFBQ3QZR8XPEQ\\w6qR0VgW/view?usp=share_link$