PROJECT REPORT FORMAT

1. INTRODUCTION

1.1 Project Overview: -

Patients with severe liver disease or numerous clotting factor deficits, as well as those who have undergone trauma, burns, or shock, frequently get plasma. The patient's blood volume is increased as a result, which can aids in blood coagulation and helps to prevent shock. The number of people with Covid-19 infection has increased, as has the demand for the plasma of patients who have recovered. The antibodies that are already in our systems can aid someone in overcoming the infection.

Plasma donation saves lives, and donors' and blood/plasma facilities' communication is key to this. Smart apps are increasingly viewed as a crucial communication tool, and if they are created with the users' requirements and preferences in mind, plasma donation could make the best use of them.

1.2 Purpose: -

In our opinion we intend to create an application that is userfriendly for people who require plasma or who wish to donate plasma to anyone who is in need.

However, during design and development, areas of concern including privacy and secrecy should be taken into account. Age was found to be a contributing factor that might reduce donors' propensity to use apps. This system is used if anyone needs a Plasma Donor.

This system comprises of Admin and User where both can request for a Plasma.

- Both parties can Accept or Reject the request.
- The person who wants to donate his/her plasma needs to register in our application providing required information which are name, age, blood group, phone number, and location, etc.
- Patients who need plasma can also fill the form to request the plasma. Patients can directly call the donor by taking his/her contact number from the application.
- User can also search based on location they are living

2. LITERATURE SURVEY

2.1 Existing Problem:

People have to find them physically by visiting hospitals register book and reaching out recovered donors' home and sometimes they will be not available at their places and will be went on work. In this type of scenarios, diseased persons health gets more worsened. This is an expensive and will not work as effectively at emergency situations

Several experiments have been carried out over the years by different groups of researchers. Here are some of the following groups:

1. Kalpana Devi Guntoju, Tejaswini Jalli, Sreeja Uppala, Sanjay Mallisetti (2022), "Instant plasma donor recipient connector web application ", Donors can upload the **covid 19 certificate** and they can make a request to the donor. Takes more time for verification.

2. M N Noorshidha and G. Aghila(2021), "Convalescent Plasma Therapy: Data driven approach for finding the Best Plasma Donors", An effort to mimic the data of plasma donors as the donor's clinical history data is not publicly available. Even a tiny variance in data can lead to a high variance in the resulting prediction.

3. Nayan Das, MD. Asif Iqba(2021), "Nearest Blood & Plasma Donor Finding: A Machine Learning Approach", To build a platform with clustering algorithms which will jointly help to provide the quickest solution to find plasma donor.

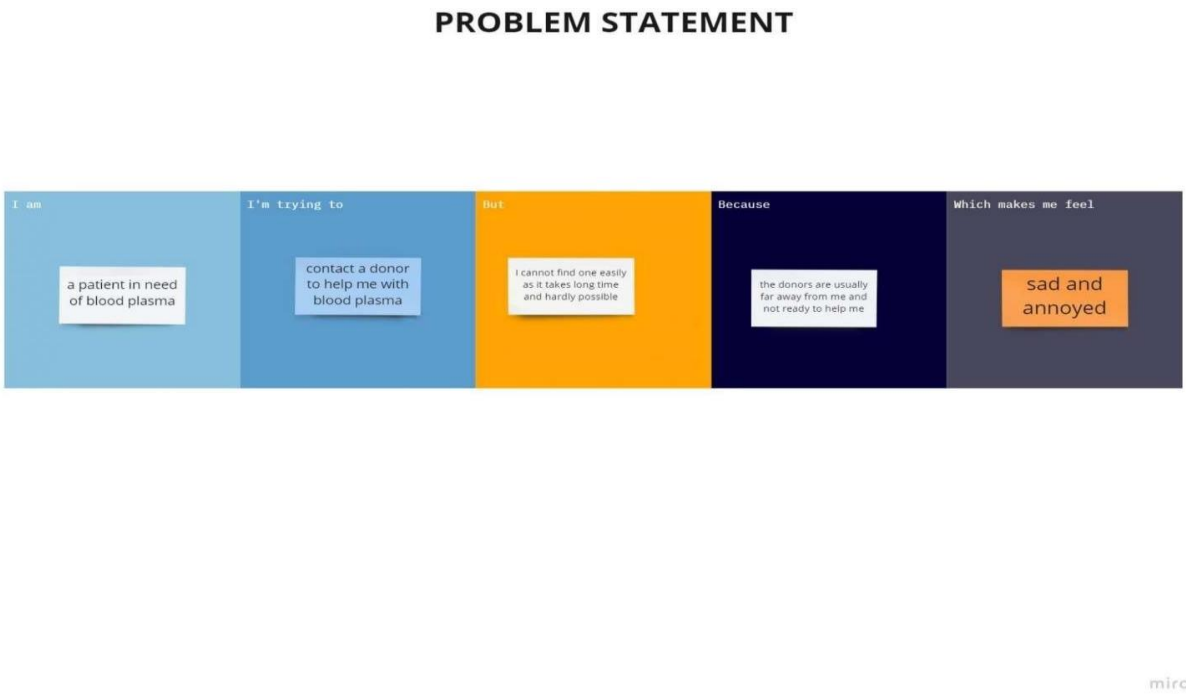
4. Aishwarya R Gowri(2020)," Developing a plasma donor application using Function-as-a-service in AWS" ,This project plasma donor application is being developed by using AWS services. Common cloud computing problems.

5. Weijin Guo , Jonas Hansson ,Wouter van der Wijngaart(2020), "Synthetic Paper Separates Plasma from Whole Blood with Low Protein Loss", Synthetic Paper Separates Plasma from Whole Blood with Low Protein Loss.

2.2 References: -

- https://www.irjmets.com/uploadedfiles/paper/issue_6_june_2022/26076/final/fin_irjmets1655361213.pdf
- https://ieeexplore.ieee.org/document/9396012
- https://www.researchgate.net/publication/350836827_Nearest_Blood_Plasma_Donor_Finding_A_Machine_Learning_Approach.
- https://ieeexplore.ieee.org/document/9396012
- https://pubmed.ncbi.nlm.nih.gov/32323979/

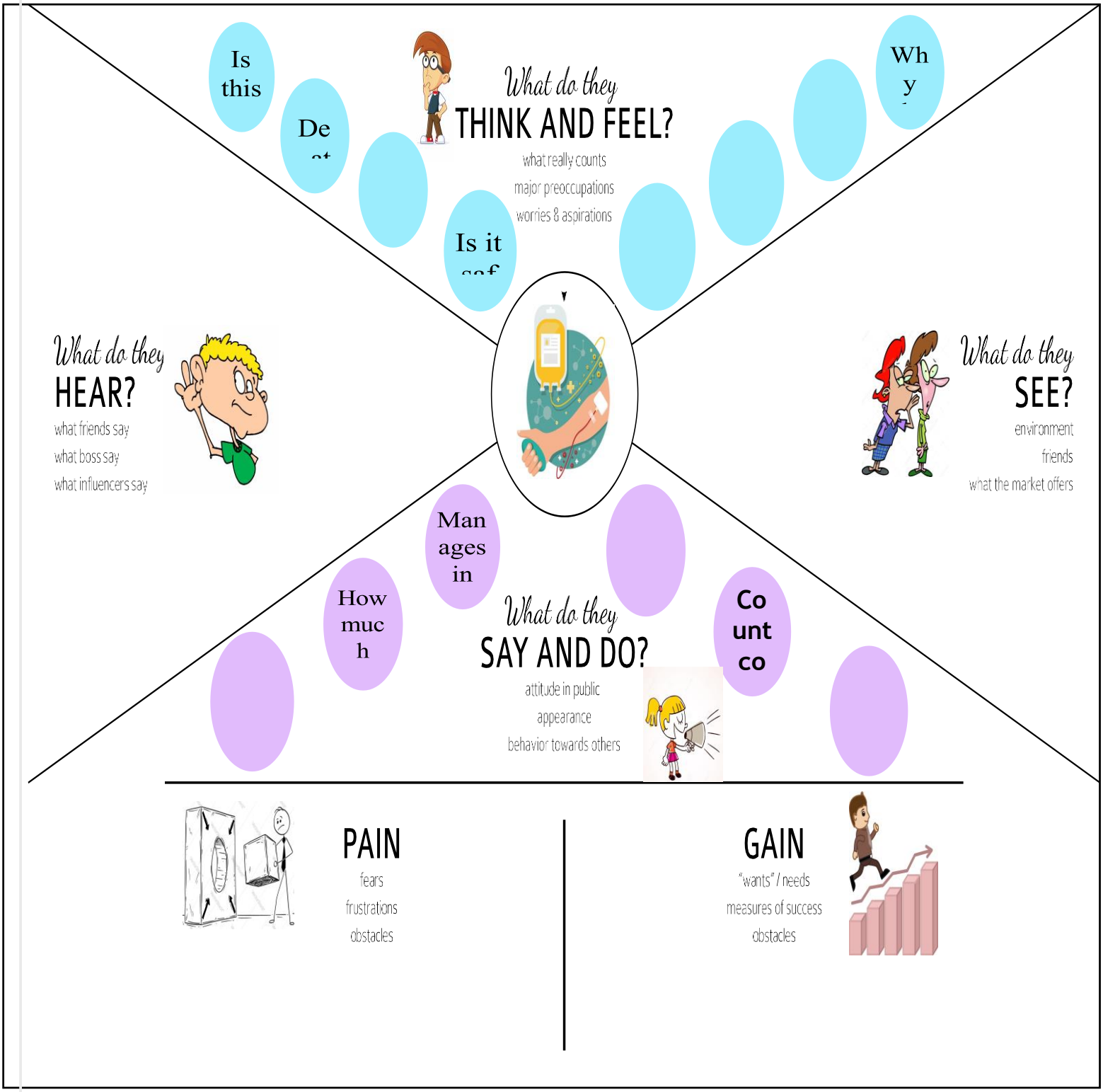
2.3 Problem Statement Definition: -



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	A patient in need of blood plasma	Contact a donor to help me with blood plasma	I cannot find one easily as it takes long time and hardly possible	The donors are usually far away from me and not ready to help me	Sad and annoyed

3. IDEATION & PROPOSED SOLUTION

3.1. Empathy Map Canvas:-



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 was 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.

3.3Proposed Solution:-

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	People who are in need of plasma are increasing day by day. Plasma is necessary to help our body to recover from injury, distribute nutrients, remove waste and prevent infection, while moving throughout our circulatory system. It is not that people don't want to donate plasma, but they have no idea where they can donate. We are designing a platform which contains all the information regarding Plasma donation.

2.	Idea / Solution description	Ours is a mobile application which aims to serve as a communication tool between plasma donation organizers and plasma donors. To become a member of our system, donors need to create their profile by providing their information like name, blood group, email address, phone number, password and exact location from 'Google Map', which are integrated with this application. This mobile app always keep updating the location of the donor.
3.	Novelty / Uniqueness	Users can submit their comments if they had any difficulties during donation process. This app automatically keeps showing the plasma donors nearby. Donor will save the donor card digitally.
4.	Social Impact / Customer Satisfaction	This app will make revolutionary changes to the medical system as people will be able to donate plasma and serve the mankind. It can also help the people to know about the benefits of plasma donation, so that their small contribution can help one person to save his/her life.
5.	Business Model (Revenue Model)	There are many private sectors and NGOs, who organize plasma donation camps. Even collaboration with companies like Biolife, and other pharmaceutical companies use plasma to make treatment for conditions such as immune deficiencies and bleeding disorder in order to increase revenue.
6.	Scalability of the Solution	This application has the ability to handle more donors and provide users with good user experience. It handles the traffic, responding accurately and reacting to the growing number of requests.

Application contains two roles:

- Admin

- 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.

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.

Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

- The user/customer who belonging to the medical department.

6. CUSTOMER CONSTRAINTS — CC

- There is no boundation of using this application because the user/customer who is having knowledge of this application can work on it easily.

5. AVAILABLE SOLUTIONS — AS

- The suggestions made by the user/customer are implemented in these kinds of applications.

-In the such cases the most important suggestions of the user/customer are developed and made available in updates.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS — J&P

- The user/customer found inconvenient in this plasma donar application that the user expecting more specification could be added if possible.

9. PROBLEM ROOT CAUSE — RC

- The user/customer is new to use this application.
- The user/customer have no knowledge about this application.
- When the user/customer missed out the proper guidance about how to use handle this application.

7. BEHAVIOUR — BE

- The user/customer use different different devices in their hands.
- Medical people can use this application regularly while comparing to others.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS — TR

- The awareness of the application motivates the users to use this application

4. EMOTIONS: BEFORE / AFTER — EM

Before – When the users/customers expected specification not met makes them enthusiastic.
After – As the user/customers who recovered from there errors they will become comfortable and friendly with this environment.

10. YOUR SOLUTION — SL

- The suggestion which made by the user/customer user will be noted and the apt suggestions will be added in further updates.

8. CHANNELS of BEHAVIOUR - Online — CH

- Awareness videos/content made the donar to donate the plasma.
- Advertise online with influence to test the product and promote it.

Offline

- To encourage and motivate the medical field-oriented personnel to use the application.

Extract online & offline CH of BE

4. 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 Email and Social media accounts
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Login through registered email id
FR-4	User Examination	Medical Examination before donating
FR-5	Recipient Request	The recipient makes request for blood type for plasma
FR-6	Donor Request Alert	The Donor gets alerted through email
FR-7	Closed Request Verification	Donor gets an e-certificate and rewards once donation is completed
FR-8	Videos and Donation camps	Users can look up the benefits of plasma donation and information related
FR-9	Chat Assistant	Helps to solve queries related to donation within the app

Non- Functional Requirements:-

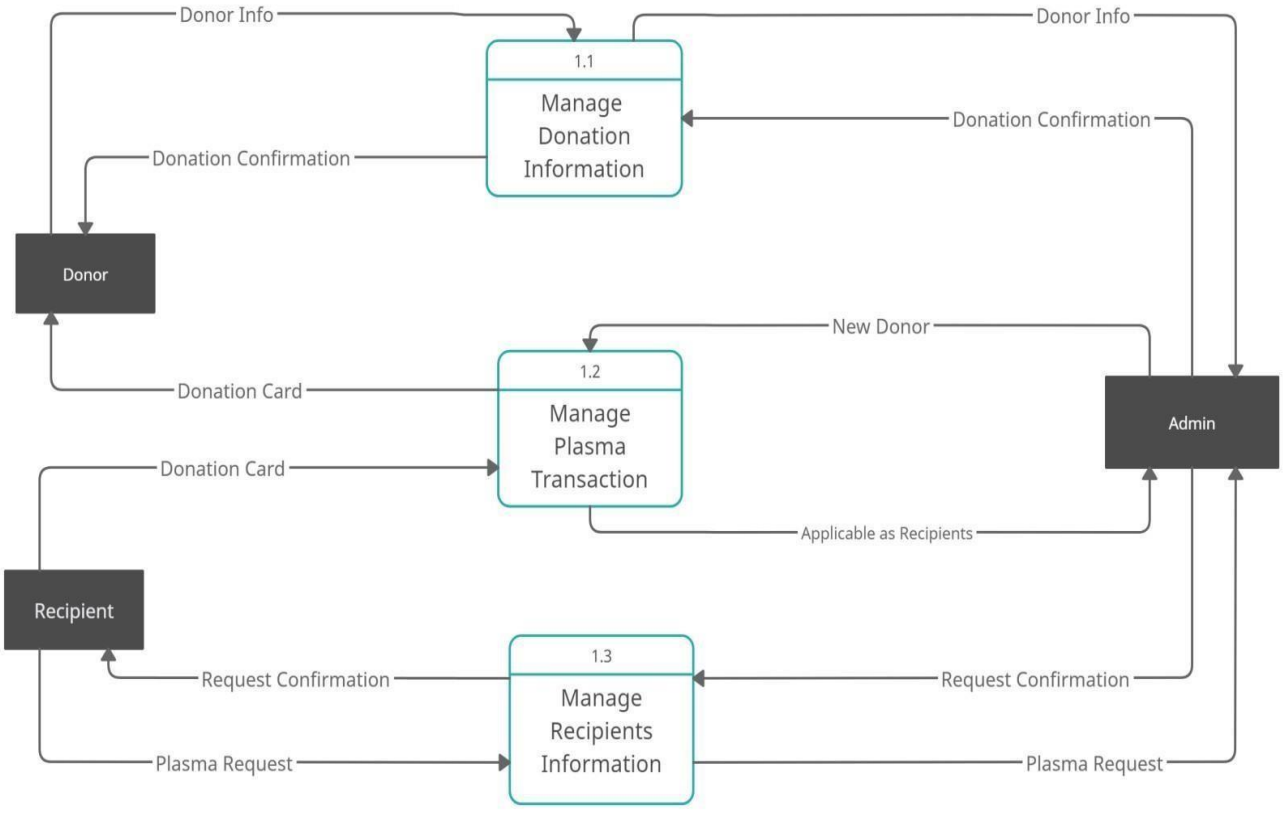
Following are the non-functional requirements of the proposed solution.

FR NO.	NON Functional Requirements(Epic)	Sub Requirements(story/sub-tas
NFR-1	Usability	This app is easy to use, easy to learn and navigate. Tasks such as booking a donation appointment could be completed in few steps and no instructions and training are required and this app is usable by people of all age group.
NFR-2	Security	This is a secure web application plus a secure database system that provides a safe environment for patients, doctors and transplant centres to create online profile for patients seeking living donors of plasma. Fake login and bots are carefully removed.
NFR-3	Reliability	All information that the user enters into the app is voluntary and the user can cease the usage at any time and delete their profile. If the user has shared any information through social network portals, it can also be removed. This app creates a friendly bond with the donors.
NFR-4	Performance	There is no lag during usage and the user can experience a glitch free usage. The user also gets route and tips on how to travel conveniently to the donation point.
NFR-5	Availability	This App will be available on Google Play store and App Store and also in web.
NFR-6	Scalability	This App has ability to handle multiple donors at a time and provides users with good user experience and reacts fast according to growing number of requests.

5. PROJECT DESIGN

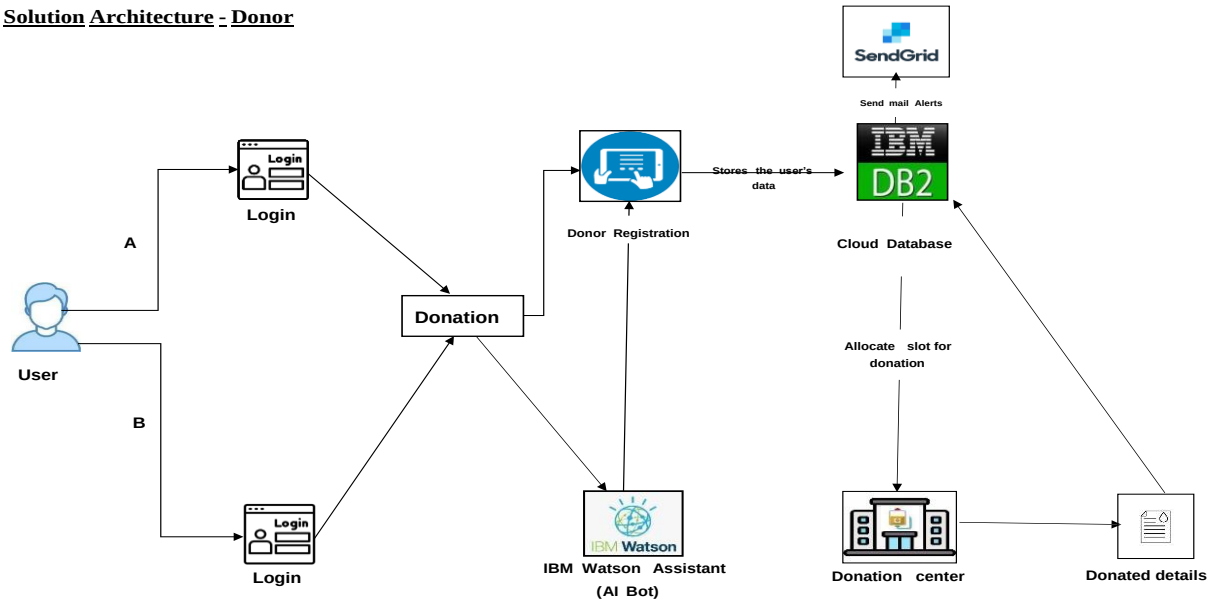
Data Flow Diagrams:

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.

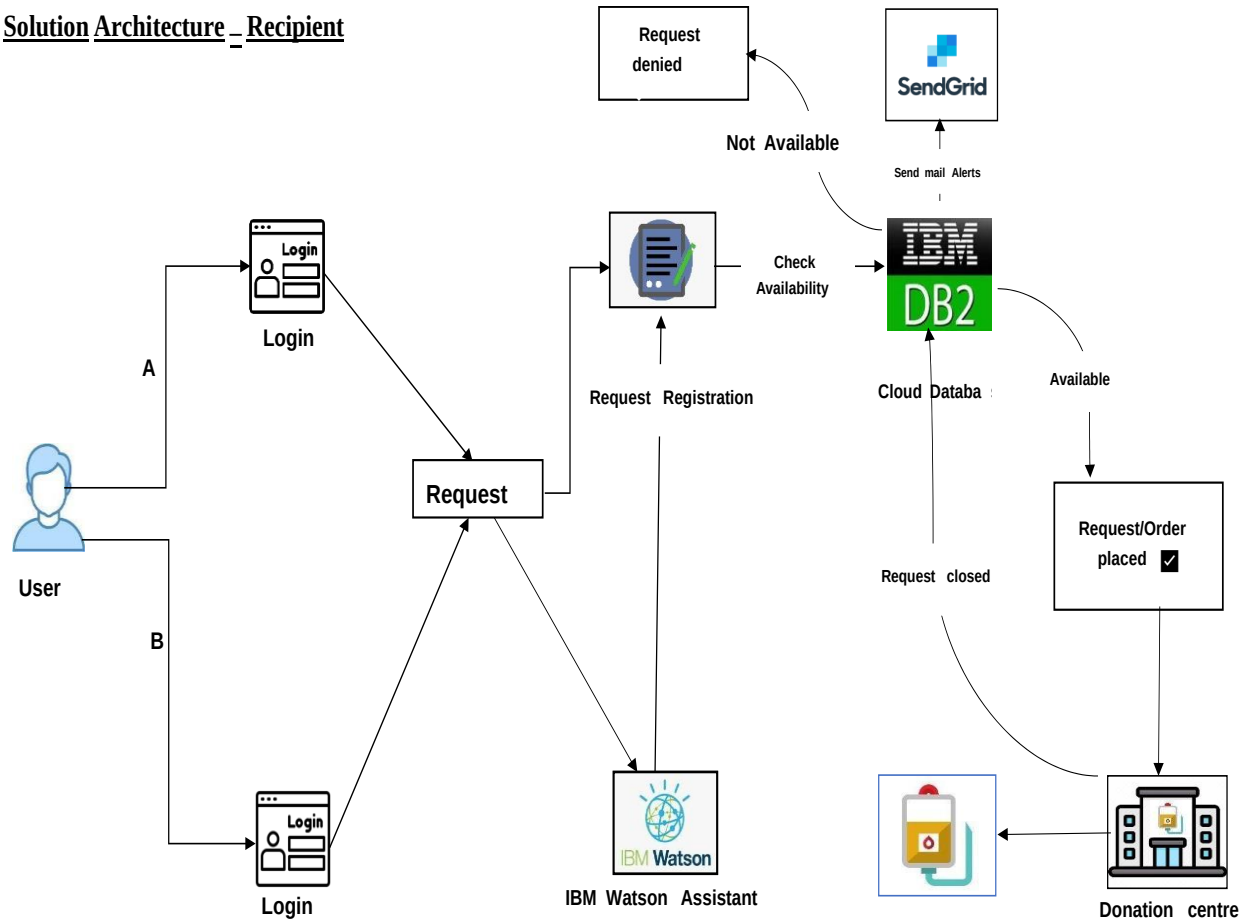


Solution & Technical Architecture: -

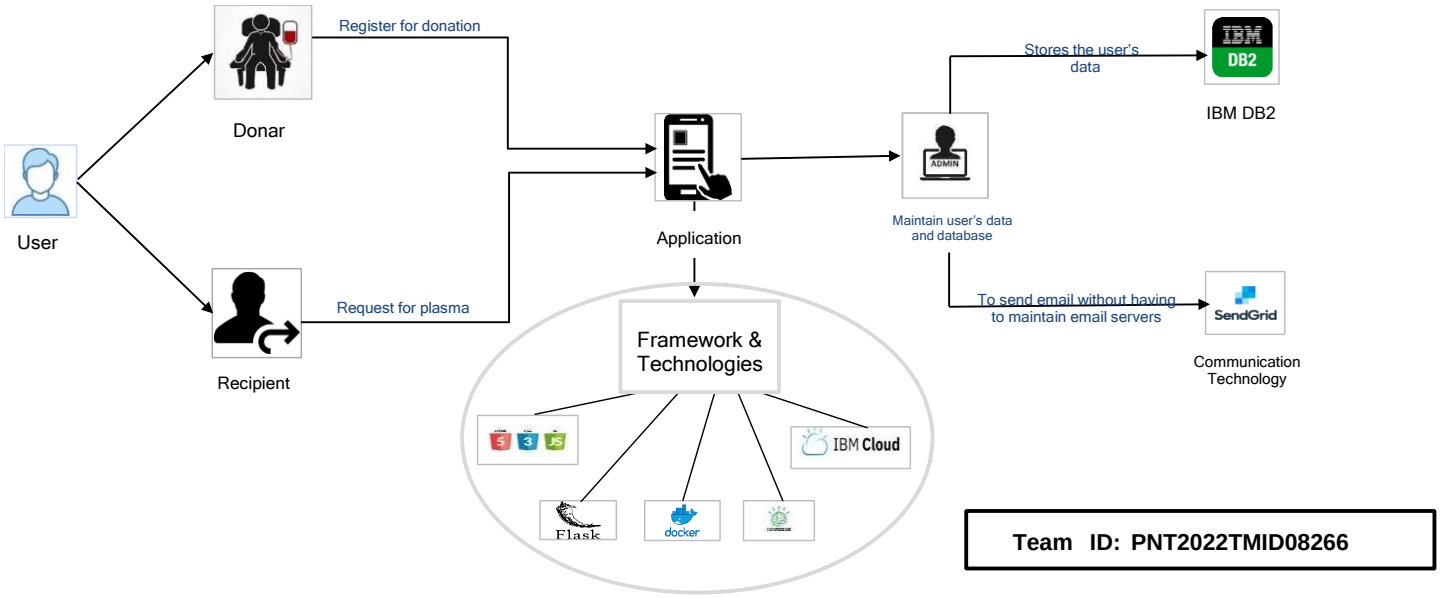
Solution Architecture - Donor



Solution Architecture _ Recipient



Technical Architecture:-



Team ID: PNT2022TMID08266

5.3 User Stories: -

User Stories:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, phone number, password.	I can access my account / profile.	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive verification email for confirmation.	High	Sprint-1
		USN-3	As a user, I can register for the application through social media site/account.	I can register & access my account/profile with social media account.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail, Yahoo mail, Outlook…	I can register the app with email account.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password.	I can register & access user profile/account with Gmail account.	High	Sprint-1
	Requesting/ recipient	USN-6	As a recipient, I can request the blood group for which I need plasma.	I can get plasma through Donation center while plasma is available.	High	Sprint-2

Customer (Web user)	Profile	USN-7	As a user, I can see registration page, login page and chat bot for which the user can access to donate and to request for the required blood group plasma.	I can login through email and social media account for registration.	Medium	Sprint-2
Customer Care Executive	Help desk /User support	USN-8	As a customer care executive, I can solve the queries of the users.	I can reply to their queries and solve their related problems.	High	Sprint-3
Administrator	Registration	USN-9	As an Administrator, I can view the database of the registered users.	I can check and verify the persons who are the registered their mail Id's and information's.	Medium	Sprint-4
	Dashboard	USN-10	As an Administrator, I can view how many members requested for what kind of blood group for plasma.	I can check the number of requirements and monitor the availability.	Low	Sprint-4
Chabot	User-Interface	USN-11	In addition to the customer care executive, I can solve all the queries of the donor as well as the recipient.	I can reply to all the Questions which are asked by the users that are related to the service we provided.	Medium	Sprint-4

6.PROJECT PLANNING AND SCHEDULING

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.

We categorized the sprint as 4 phases for creating the application

- Sprint 1 is about creating the login page and the register page.
- Sprint 2 is about sending the confirmation

  mail to the users during registration.
- Sprint 3 is about as a user, can log into application by entering email and password.
- Sprint 4 is about as user, can register and make request for plasma donation via portal.

Sprint Estimation and Delivery Schedule:

Project Tracker:

Sprint	Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint1	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 Nov2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Sprint duration = 6 days
Velocity of the team = 20 points

$$\text{average velocity (AV)} = \frac{\text{Velocity}}{\text{Sprint duration}}$$

AV = 20/6 = 3.34

Average Velocity = 3.34

Milestone and activity list:

Sprint	Functional Requirements	User story number	User story/task	Story points	priority	Team members
Sprint 1	Stimulation creation	USN-1	Connect with python code	2	High	Ashwini Madappan naidu Akshya U Deekshitha J Durga L
Sprint 2	Software	USN-1	Creating an IBM Watsonin Cloud platform	2	High	Ashwini Madappan naidu Akshya U Deekshitha J Durga L
Sprint 3	MIT App Inventor	USN-1	Develop an plasma donor application	2	High	Ashwini Madappan naidu Akshya U Deekshitha J Durga L
Sprint 4	Dashboard	USN-1	Design the Modules and test the app	2	High	Ashwini Madappan naidu Akshya U DeekshithaDurga L
Sprint 5	Web UI	USN-1	To make the user to interact with		High	Ashwini Madappan naidu

			software			Akshya U Deekshitha J Durga L

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

SendGrid is a cloud-based SMTP provider that allows you to send email without having to maintain email servers. SendGrid manages all of the technical details, from scaling the infrastructure to ISP outreach and reputation monitoring to whitelist services and real time analytics.

SendGrid provides two ways to send email: through our SMTP relay or through our Web API. SendGrid provides client libraries in many languages. This is the preferred way to integrate with SendGrid. If you choose to use SendGrid without a client library, the Web API is recommended in most cases as it is faster, provides some beneft with encoding, and tends to be easier to use. SMTP provides many features by default, but is harder to setup.

Web API

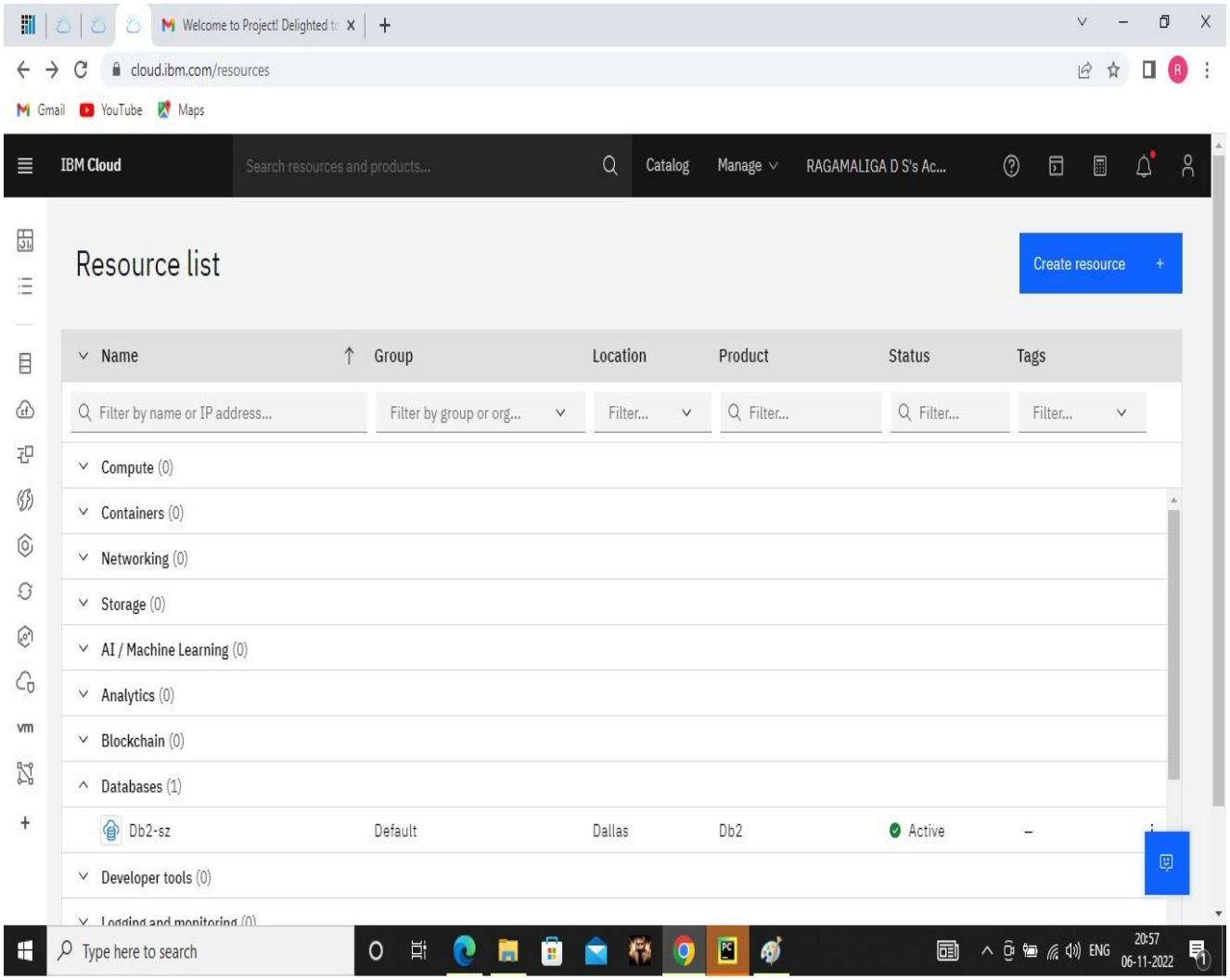
- The Web API has some advantages over SMTP:
- If your ISP blocks all outbound mail ports and your only option is HTTP.
- If there is high latency between your site and ours, the Web API might be quicker since it does not require as many messages between the client and server.
- If you do not control the application environment and cannot install and configure an SMTP library.
- If you build a library to send email, developing against a web API provides quicker development. **SMTP Relay**

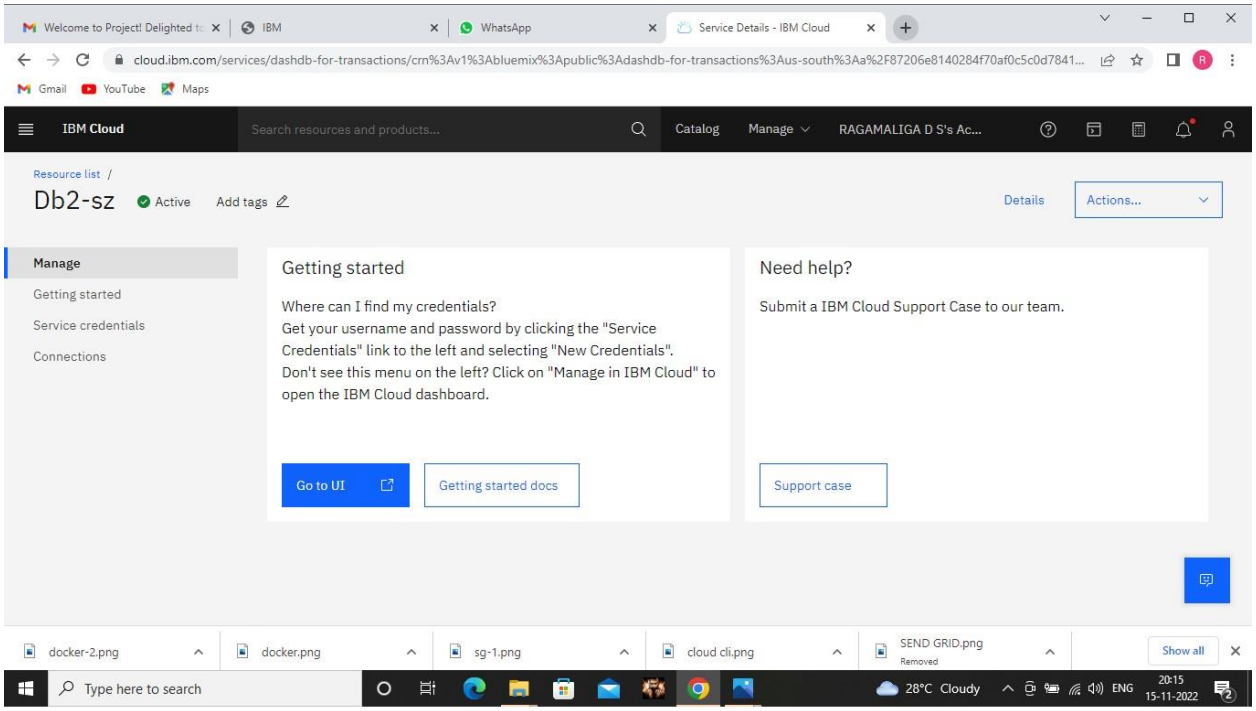
- If you are integrating SendGrid with an existing application, setting up the application to use our SMTP relay is easiest, as it only requires modifying SMTP configuration.
- Change your SMTP username and password to your SendGrid credentials.
- Set the server host name to smtp.sendgrid.net
- Use ports 25 or 587 for plain/TLS connections and port 465 for SSL connections.

Code:

sendgridmail import sendgrid import os from sendgrid.helpers.mail import * api_key = "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" sg = sendgrid.SendGridAPIClient(api_key) from_email = Email("ashwinimadhu555@gmail.com") to_email = To("akshyau9@gmail.com@gmail.com") subject = "Your little efforts can give others second chances to live life." content = Content("text/plain", "Thank you for choosing our plasma donor application for donating plasma. Your account has been created and one step ahead to go, please verify your email ID.") mail = Mail(from_email, to_email, subject, content) response = sg.client.mail.send.post(request_body=mail.get()) print(response.status_code) print(response.body)

7.2Database Schema

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Service Details - IBM Cloud
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Maps
IBM Cloud
Search resources and products...
Catalog
Manage
RAGAMALIGA D S's Ac...
Resource list /
Db2-sz
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Getting started
Service credentials
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Getting started
Where can I find my credentials?
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.
Go to UI
Getting started docs
Need help?
Submit a IBM Cloud Support Case to our team.
Support case
docker-2.png
docker.png
sg-1.png
cloud cli.png
SEND GRID.png
Removed
Show all
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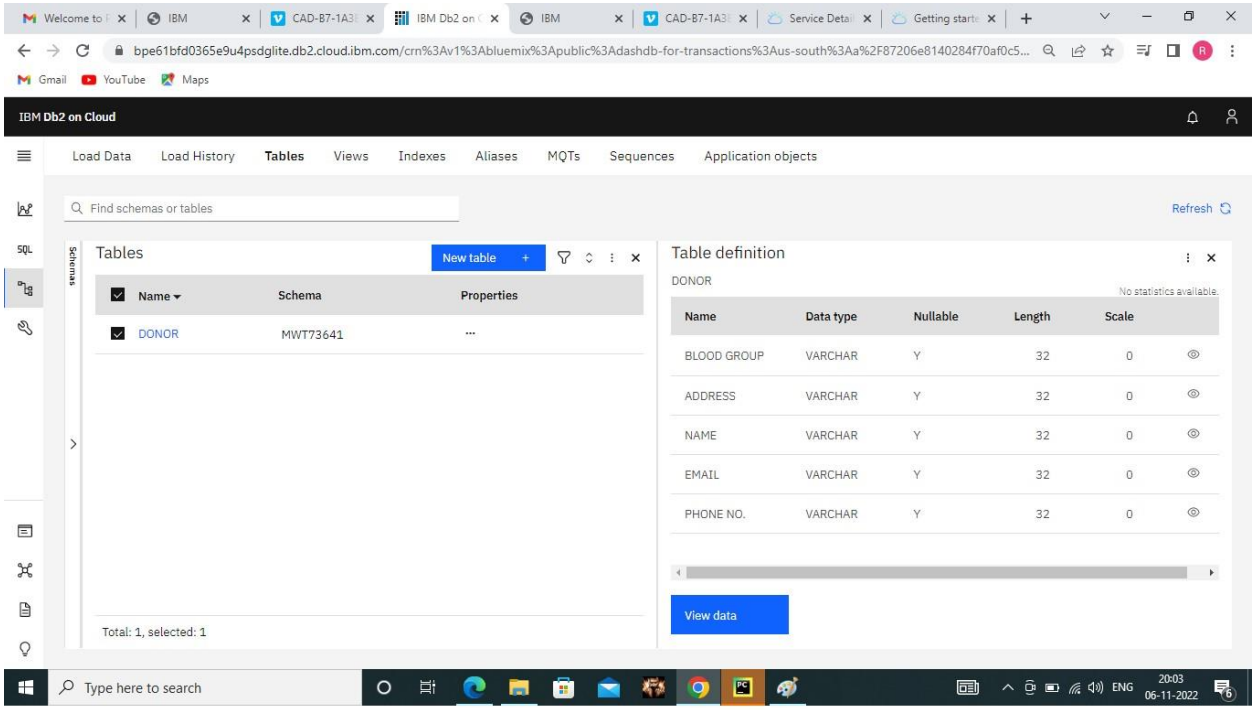
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YouTube
Maps
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Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Find schemas or tables
Refresh
Schemas
Tables
New table
Name
Schema
Properties
DONOR
MWT73641
Total: 1, selected: 1
Table definition
DONOR
No statistics available.
Name
Data type
Nullable
Length
Scale
BLOOD GROUP
VARCHAR
Y
32
0
ADDRESS
VARCHAR
Y
32
0
NAME
VARCHAR
Y
32
0
EMAIL
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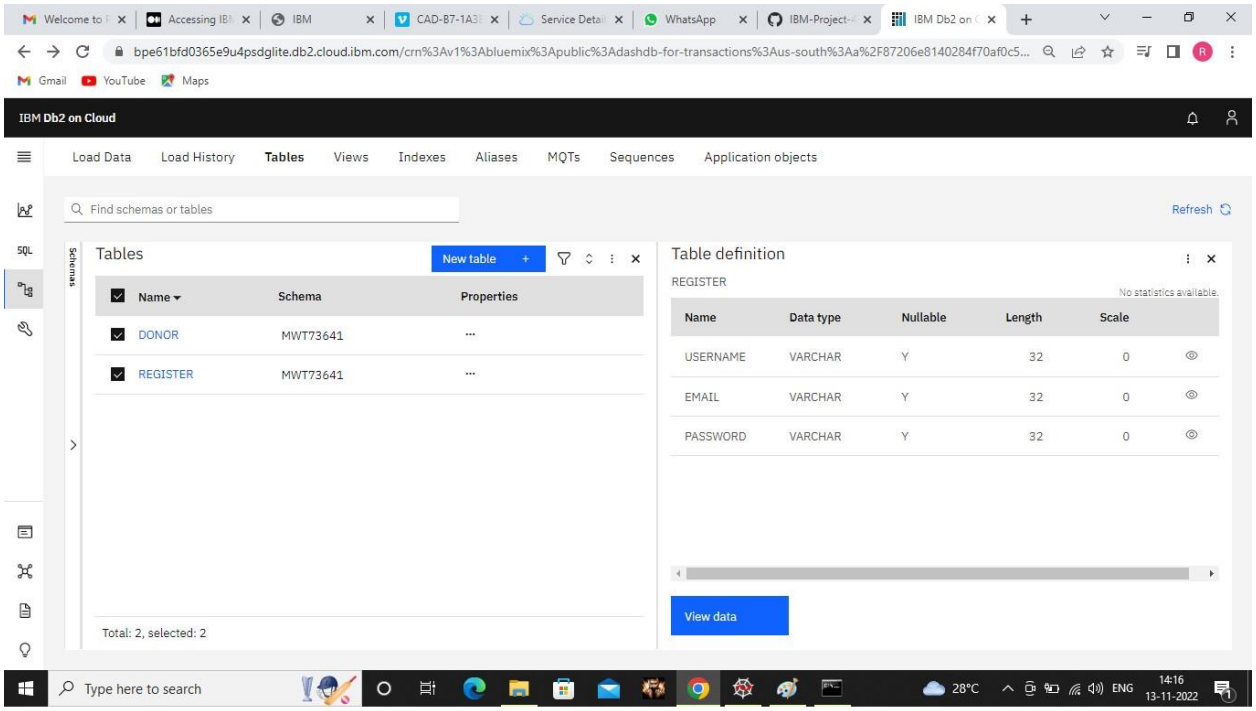
0
View data
Type here to search
ENG
20:03
06-11-2022


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
Find schemas or tables
Refresh
Tables
New table
Name
Schema
Properties
DONOR
MWT73641
REGISTER
MWT73641
Total: 2, selected: 2
Table definition
REGISTER
No statistics available.
Name
Data type
Nullable
Length
Scale
USERNAME
VARCHAR
Y
32
0
EMAIL
VARCHAR
Y
32
0
PASSWORD
VARCHAR
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View data
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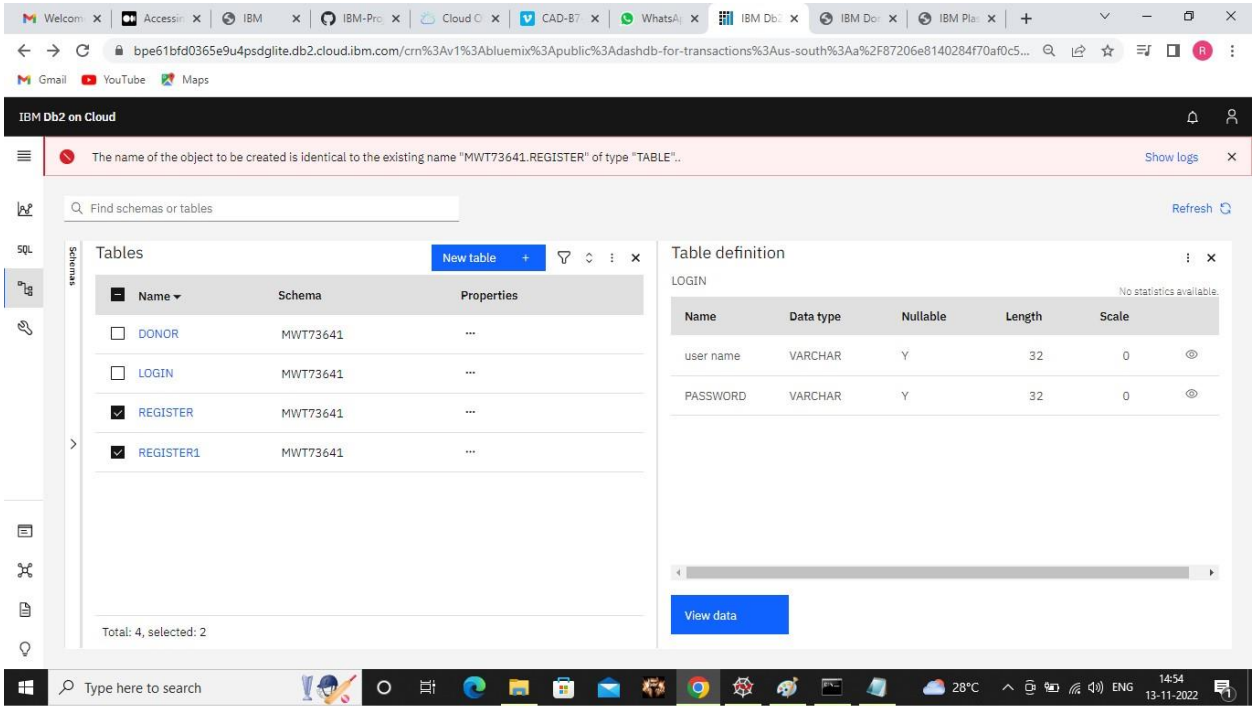
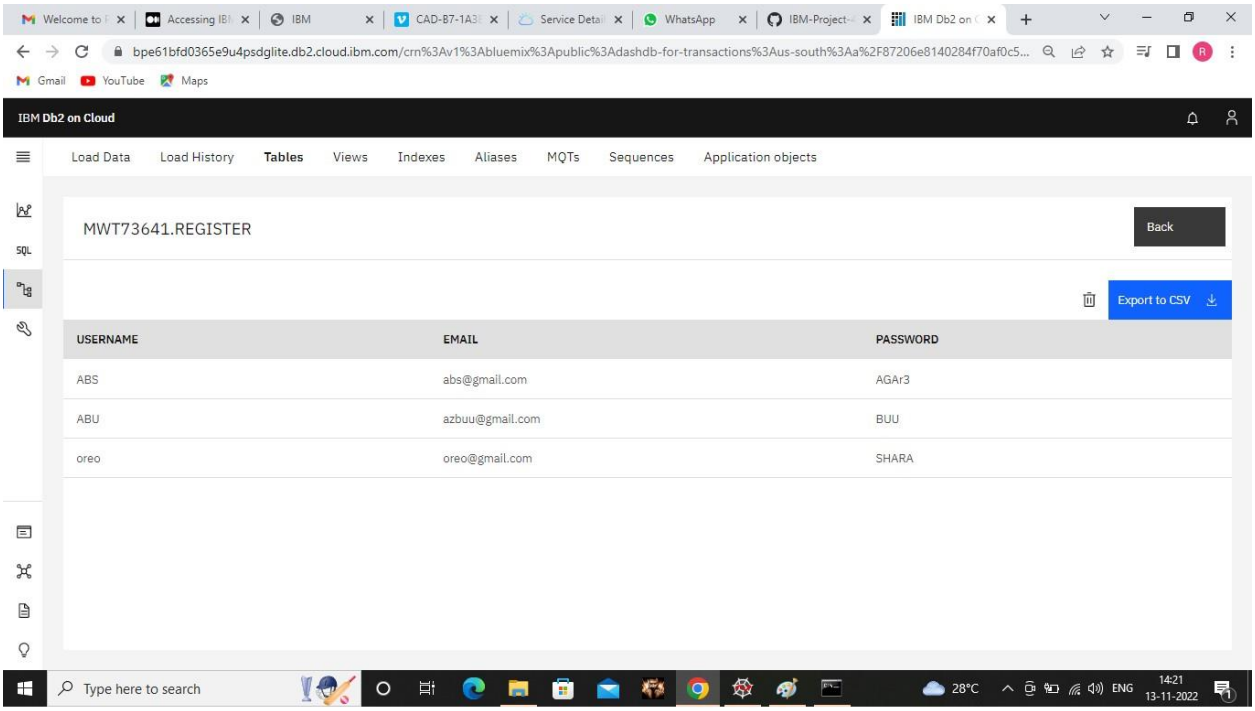

IBM Db2 on Cloud
The name of the object to be created is identical to the existing name "MWT73641.REGISTER" of type "TABLE"..
Show logs
Find schemas or tables
Refresh
Tables
New table
Name
Schema
Properties
DONOR
MWT73641
LOGIN
MWT73641
REGISTER
MWT73641
REGISTER1
MWT73641
Total: 4, selected: 2
Table definition
LOGIN
No statistics available.
Name
Data type
Nullable
Length
Scale
user name
VARCHAR
Y
32
0
PASSWORD
VARCHAR
Y
32
0
View data
Type here to search
28°C
ENG
14:54
13-11-2022



FEATURE CODE:

Admin login

```
<!DOCTYPE html>
<html lang="en" >
<head>
  <meta charset="UTF-8">
  <title>Admin Login</title>
  <link href="https://fonts.googleapis.com/css?family=Open+Sans" rel="stylesheet">


  <link href="https://maxcdn.bootstrapcdn.com/font-
awesome/4.7.0/css/fontawesome.min.css" rel="stylesheet"
integrity="sha384wvfXpqpZZVQGK6TAh5PVlGOfQNHSoD2xbE+QkPxCAFlNEevoEH3Sl0sibVcOQVnN"
crossorigin="anonymous">
  <link rel="stylesheet" type="text/css" href="../static/adminlogin.css">


</head>
<div class="loader_bg">
    <div class="loader"></div>
  </div>
<!-- partial:index.partial.html -->
<div class="box-form">
    <div class="left">
        <div class="overlay">
        <h1>Wc Admin!</h1>
        <p>Good governance depends on ability to take responsibility
by both administration as well as people...</p>
        <span>
            <h3>   <u>login with social media</u></h3>
<a href="https://www.facebook.com/login/"><i class="fa fafacebook" aria-
hidden="true"></i></a>
            <a
href="https://accounts.google.com/ServiceLogin?rart=ANgoxccWMJUYHQa3XU_QXDV2zFIXhG
7Wy7iJAIPJ8JsqryC6xHQj-SeDlstFbGjgZ0BZWyPE5U3qrh9MUAqzry3Wytg4n8Ig"><i class="fa
fa-google" ariahidden="true"></i> Login with Gmail</a>
            <!-- <a href="#"><i class="bi bi-google" ariahidden="true"></i></a>  -
->
        </span>
        </div>
</div>
```

```
     <div class="right">
        <h5>Admin!</h5>     <!-- <p>Don't have an account? <a href="#">Creat
Your Account</a> it takes less than a minute</p> -->
        <div class="inputs">
            <input type="text" placeholder="user id">
            <br>
            <input type="password" placeholder="password">
        </div>


            <br><br>

        <div class="remember-me--forget-password">
                <!-- Angular -->
    <!-- <label>
        <input type="checkbox" name="item" />
        <span class="text-checkbox">Remember me</span>
    </label> -->
    <br>
            <button><a href="/admin">Login</a></button>
            <!-- <p>forget password?</p> -->
        </div>


            <br>
            <p>Don't have an account? <a href="/adminreg">Create Your
Account</a> it takes less than a minute</p>
    </div>
</div>
<!-- partial -->
 <script>
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.min.js"></scri pt>
<script>
  setTimeout(function(){
        $('.loader_bg').fadeToggle();
    }, 1600);
  </script>

</body>
</html>
```

Donar Login:

```
<!DOCTYPE html>
<html lang="en" >
<head>
  <meta charset="UTF-8">
  <title>Donar Login</title>   <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css ">
<link rel="stylesheet" href="../static/logincss.css">

</head>
<center><h4>{{msg}}</h4></center>
<body>
<div class="loader_bg">
    <div class="loader"></div>
    </div>
 <!-- partial:index.partial.html -->
<div id="login-form-wrap">
  <h2>Donar Login</h2>
  <form id="login-form">
    <p>
    <input type="text" id="email" name="email" placeholder="Email" required><i
class="validation"><span></span><span></span></i>
    </p>
    <p>
    <input type="password" id="password" name="password" placeholder="password" required><i
class="validation"><span></span><span></span></i>
    </p>
    <p>
      <a href="/donar">
        <button type="button" class="btn btn-success">Log in</button>
        </a>
    </p>
  </form>
  <div id="create-account-wrap">
    <p>Are you New ? <a href="/donregistration">Create Account</a><p>
  </div><!--create-account-wrap-->
</div><!--login-form-wrap-->
<!-- partial -->
 <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.min.js">
</scri pt>
<script>
    seTimeout(function(){$(‘.loader_bg’).fadeToggle();},1600);
</script>
</body>
</html>
```

Admin Dashboard:

```
<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 href="https://fonts.googleapis.com/css?family=Merriweather&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="assets/css/bootstrap.min.css">
    <link rel="stylesheet" href="assets/css/fontawsom-all.min.css">
    <link rel="stylesheet" type="text/css" href="../static/donar.css">
<link rel="stylesheet" href="assets/plugins/grid-
gallery/css/gridgallery.min.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT
" crossorigin="anonymous">


    <title>Admin Page</title><header class="p-3 text-bg-dark">


    <div class="container">
        <div class="d-flex flex-wrap align-items-center justify-content-center
justify-content-lg-start">
            <a href="/" class="d-flex align-items-center mb-2 mb-lg-0 textwhite
text-decoration-none">
                <svg class="bi me-2" width="40" height="32" role="img"
arialabel="Bootstrap"><use xlink:href="#bootstrap"/></svg>
            </a>
            <ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-
contentcenter mb-md-0">
              <li><b><center>        
    📌ADMIN DASHBOARD, Nice to see you Again Admin!</center> </b></li>
  
```

```
                </ul>
            </div>
        </div>
        </header>
      </head>
      <body>
        <div class="loader_bg">
          <div class="loader"></div>
        </div>
        <br><a href="/mail">
          <button style="margin-left: 1400px;" type="button" class="btn
btnsuccess">Mail</button></a>


        <br><br><br><br><br>




         <div class="content-center">
            <center>
                <button type="button" class="btn btn-warning btn-lg"><a
href="/plasmadon">Donation requests</a></button>
                <br><br>
                <button type="button" class="btn btn-danger btn-lg"><a
href="/plasmareq">Recipient requests</a></button>
            </center>
            <br><a href="/">
            <button style="margin-left: 20px;" type="button" class="btn
btnsuccess">Log out</button></a>



       <script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.min.js"></scr
i pt>    </body>    <style>          body{
          background: rgb(2,0,36);
          background: linear-gradient(270deg, rgba(2,0,36,1) 0%, rgba(9,9,121,1)
0%, rgba(0,212,255,1) 100%);
        }
        button a:link {     text-
decoration: none;    color:
#000000;
} button a:visited { text-decoration: none;
color:#ffffff;}
 button a:hover { text-decoration: none; color:#ffffff;
}
```

```
a:active { text-decoration: none; color: #ffffff;}
 table, th, td {   border:
1px solid black;
}
</style>
 <script>   setTimeout(function(){
      $('.loader_bg').fadeToggle();
  }, 1600);
</script>
</html>
```

Donar requesting page:

```
<!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">
    <link href="https://fonts.googleapis.com/css?family=Merriweather&display=swap"
rel="stylesheet">
    <link rel="stylesheet" href="assets/css/bootstrap.min.css">
    <link rel="stylesheet" href="assets/css/fontawsom-all.min.css">
    <link rel="stylesheet" type="text/css" href="../static/donar.css">     <link
rel="stylesheet" href="assets/plugins/grid-gallery/css/gridgallery.min.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT
" crossorigin="anonymous">


    <title>Donar Req</title>
</head>
<body>
    <header class="p-3 text-bg-dark">
        <div class="container">
            <div class="d-flex flex-wrap align-items-center justify-contentcenter
justify-content-lg-start">
                <a href="/" class="d-flex align-items-center mb-2 mb-lg-0 text-
white text-decoration-none">
```

```
                    <svg class="bi me-2" width="40"
height="32" role="img" aria-label="Bootstrap"><use
xlink:href="#bootstrap"/></svg> </a>
 <ul class="nav col-12 col-lg-auto me-lg-auto mb-2
justifycontent-center mb-md-0">
                    <li><a href="/" class="nav-link px-2
textwhite"><b>Home</b></a></li>   
                    <li><a href="#" class="nav-link px-2
textwhite"><b>About</b></a></li>   
                    <li><a href="#" class="nav-link px-2
textwhite"><b>Blogs</b></a></li>   
                    <li><a href="#" class="nav-link px-2
textwhite"><b>Camps</b></a></li>
                </ul>
                <div class="text-end">
                  <button type="button" class="btn btn-outline-
secondary"><a href="/adminlogin">Admin Login</a></button>
                  <button type="button" class="btn btn-outline-
info"><a href="/recipientlogin">Looking for plasma?</a></button>
                  <button type="button" class="btn btn-outline-
warning"><a href="/donarlogin">Donate Now!</a></button>
                </div>
            </div>
        </div>
    </header>
    <div class="marquee">
    <marquee width="80%" direction="left" height="20px"
scrolldelay="100">         Welcome Donar ! You are the Saviour,
Your donation 💧 can save the lot of lifes ❤ Thanks for donating
 🙏
    </marquee>
    </div>
     <!--donar table-->
        <div class="foot">
            <center><h3>DONATION DETAILS</h3></center>
            <a href="/">
              <button style="margin-left: 20px;" type="button"
class="btn btnsuccess">Log out</button></a>
            <center><p>{{msg}}</p></center>
            <center>
            <form action="{{ url_for('giveplasma') }}"
method="POST">
                <table align="center" cellpadding = "5">
                <tr>
                <td>Name</td>
<td><input type=”text”name=”name” required/></td></tr>
```

```
  <tr>
                <td>Age</td>
                <td><input type="number" name="age"
required/></td>
                </tr>


                <tr>
                <td>Gender</td>
                <td><input type="radio" name="gender"
value="Male"/>Male
 <input type="radio" name="gender"
value="Female"/>Female</td>
                </tr>


                <tr>
                <td>Mobile No</td>
                <td><input     type="number"     name="mnumb"
maxlength="10" required/></td>
                </tr>


                <tr>
                <td>Email</td>
                <td><input      type="text"      name="email"
```

```
maxlength="50" required/></td>
                </tr>




                <tr>
                <td>City</td>
                <td><input type = "text" name="city"
required/></td>
                </tr>


                <tr>
                <td>Address</td>
                <td><textarea name="address"
required></textarea></td>
                </tr>


                <tr>
                <td>Blood Group</td>
                <td><select name="bloodgroup" id="blood"
required>
                    <option>A+ve</option>
                    <option>A-ve</option>
                    <option>B+ve</option>
                    <option>B-ve</option>
                    <option>AB+ve</option>
                    <option>AB-ve</option>
                    <option>O+ve</option>
                    <option>O-ve</option>
                </select></td>
                </tr>
```

```
 <tr>
                <td>Any Health Issues</td>
                <td><input type="text" name="issue" maxlength="3"
required/> (type "Yes" or "No")</td>
                </tr>


                <tr>
                <td>Last blood donated date</td>
                <td><input type="date" name="lastbd" required></td>
                </tr>


                <tr>
                <td>Book Slot</td>
                <td><input type="date" name="slot" required/></td>
                </tr>
            </table>
             


                <center>
                <input type="submit" value="Submit">
                <!-- <button type="button" class="btn btn-success"><a
href="#">Register</a></button> -->
                <!-- <button type="button" class="w3-button w3-green"
value="Submit"><a href="#">Register</a></button> -->
                </center>
             </form>
            </center>
            </div>
            <footer class="bg-dark text-center text-white">
                <!-- Grid container -->
                <div class="container p-4 pb-0">
                  <!-- Section: Social media -->
                  <section class="mb-4">


                    <!-- Facebook -->
                    <!--  <a  class="btn  btn-outline-light  btn-floating  m-1"
href="#!" role="button"
                      ><i class="fab fa-facebook-f"></i><b
                      >f</b></a> -->
                    <!-- Twitter -->
                    <a class="btn btn-outline-light btn-floating m-1"
href="#!" role="button"                      ><i class="fab fa-
twitter"></i
                    ></a>


                    <!-- Google -->
```

```
                    <a   class="btn   btn-outline-light   btn-floating   m-1"
href="#!" role="button"
                      ><i class="fab fa-google"></i
                    ></a>

                    <!-- Instagram -->
                    <a   class="btn   btn-outline-light   btn-floating   m-1"
href="#!" role="button"
                      ><i class="fab fa-instagram"></i
                    ></a>

                    <!-- Linkedin -->
                    <a   class="btn   btn-outline-light   btn-floating   m-1"
href="#!" role="button"
                      ><i class="fab fa-linkedin-in"></i
                    ></a>

                    <!-- Github -->
                    <a   class="btn   btn-outline-light   btn-floating   m-1"
href="#!" role="button"
                      ><i class="fab fa-github"></i
                    ></a>
                  </section>
                  <!-- Section: Social media -->
                </div>
                <!-- Grid container -->

                <!-- Copyright -->
                <div class="text-center p-3" style="background-color: rgba(0,
0, 0, 0.2);">
                  © 2020 Copyright:
<a class="text-white"
href="#">kishorekumar1409@gmail.com</a
>
                </div>
                <!-- Copyright -->
              </footer>
</body>
</html>
```

8. RESULT

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.

Service Provider Module •

Add New Donor

User can be able to register to add donor details.

- List All Donor

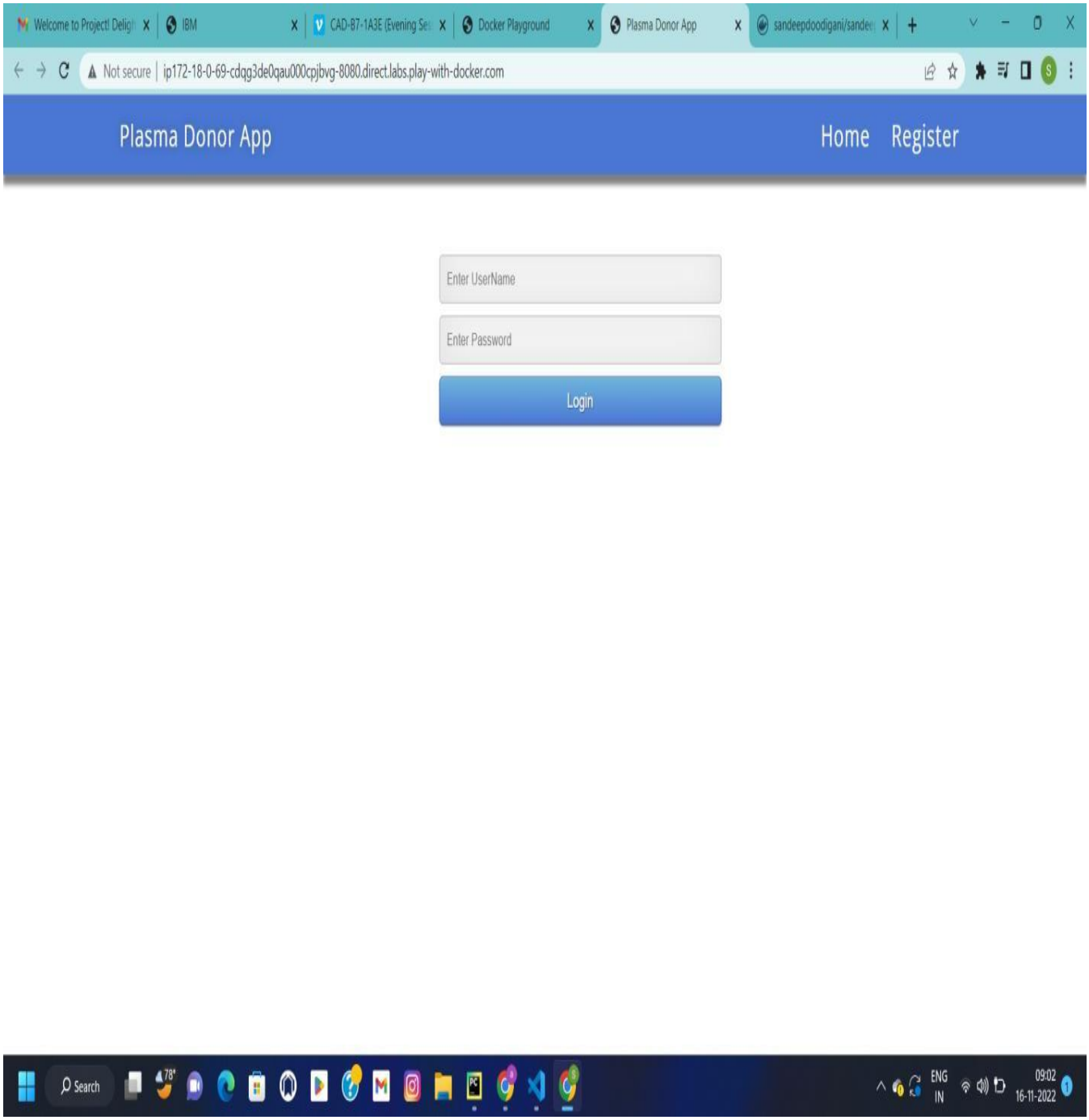
User can be able to view all Donor who all use our Plasma Donor Application.

- Edit Customer Plan Details

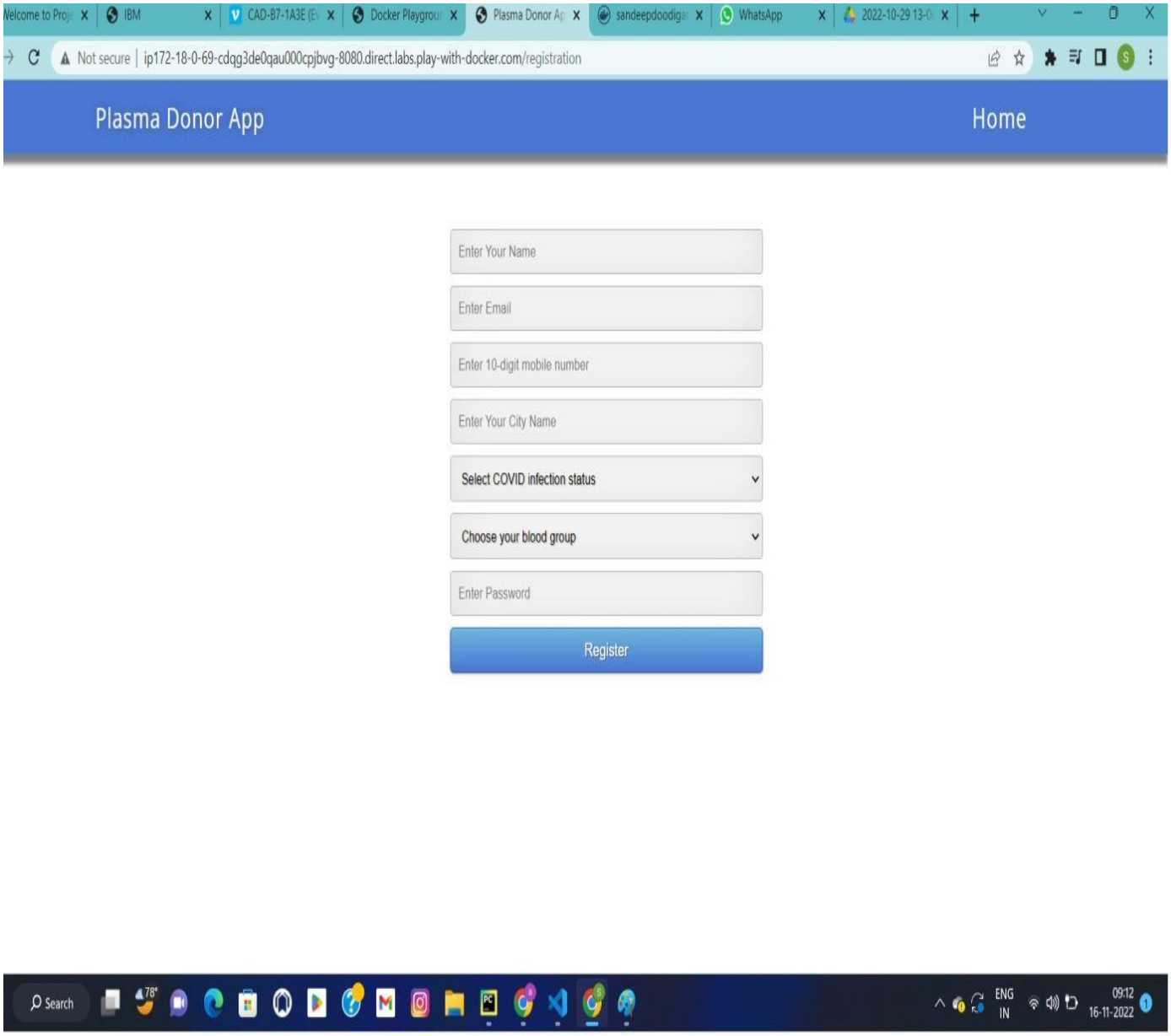
User can be able to edit the existing Donor details as the Donor wish.

Screen Layouts

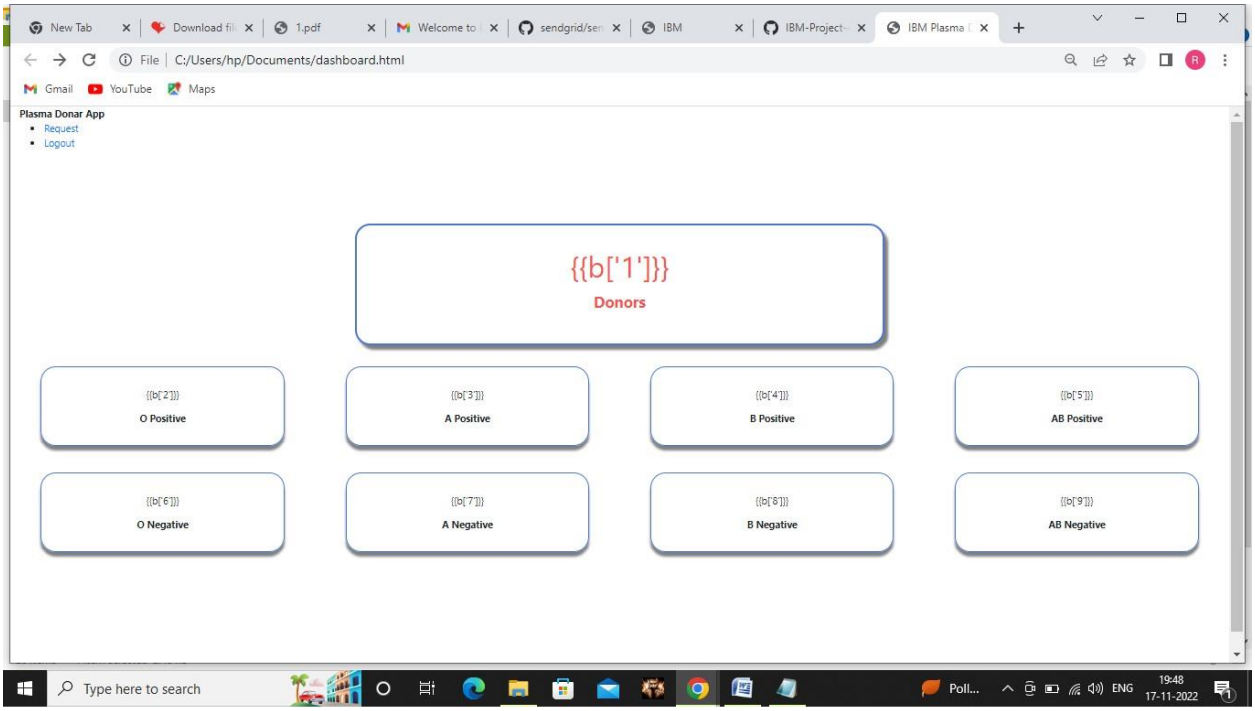
Login page


Welcome to Project! Delig
IBM
CAD-B7-1A3E (Evening Se
Docker Playground
Plasma Donor App
sandeepdoodigani/sandee
Not secure | ip172-18-0-69-cdqg3de0qau000cpjbvg-8080.direct.labs.play-with-docker.com
Plasma Donor App
Home
Register
Enter UserName
Enter Password
Login
Search
ENG
IN
09:02
16-11-2022

Registration page



Home page



The Donors can register their account using their email ID. Once registered, The Donor can sign-up by using his\her respective password. The login page for Plasma Donors is shown in the figure, which contains the E-mail and Password field. The profile of the Donor, where he/she needs to enter the required details. After registration Donor can maintain according to his availability. The registration page with Full Name, Email Address, Last donated date, Password, Contact Details, Blood Group, Location and all other details, which is illustrated. The details of the available donors can be displayed and viewed by other users.

9. ADVANTAGES & DISADVANTAGES

Advantages

- ***Speed***

  This website is fast and offers great accuracy as compared to manual registered keeping.

- ***Maintenance***

  Less maintenance is required

- ***User Friendly***

  It is very easy to use and understand. It is easily workable and accessible for everyone.

- ***Fast Results***

  It would help you to provide plasma donors easily depending upon the availability of it.

Disadvantages

- ***Internet***

  It would require an internet connection for the working of the website.

- ***Auto- Verification***

  It cannot automatically verify the genuine users.

10. CONCLUSION

Although the government is carrying out Covid vaccination campaigns on a large scale, the number of vaccines produced is not enough for all the population to get vaccinated at present. And with the corona positive cases rising every day, saving lives has become the prime matter of concern. As per the data provided by WHO more than 3 million people have died due to the coronavirus. However, apart from vaccination, there is another scientific method by which a covid infected person can be treated and the death risk can be reduced. This plasma therapy is an experimental approach to treat corona- positive patients and help them recover. This plasma therapy is considered to be safe & promising. A person who has recovered from Covid can donate his/her plasma to a person who is infected with the coronavirus.

This system proposed here 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. Both parties can Accept or Reject the request. User has to Upload a Covid Negative report to be able to Donate Plasma. This system is used if anyone needs a Plasma Donor Blood and Plasma donation is a kind of citizen's social responsibility in which an individual can willingly donate blood/plasma via our app. This Application has been created with the concept and has sought to make sure that the donor gives blood/plasma to community. This model is made user friendly so anybody can view and maintain his/her account. This

application will break the chain of business through blood/plasma and help the poor to find donor at free of cost. This project will help new blood/plasma banks improve their services and progress from traditional to user-friendly frameworks.

11.FUTURE SCOPE

Plasma Application can be developed to further improve user accessibility via integrating this application with various social networks application program interfaces (APIs). Consequently, users can login and sign up using various social networks. This would increase number of donors and enhances the process of blood donation.

User interface (UI) can be improved in future to accommodate global audience by supporting different languages across countries. Data scraping can be done from different social networks and can be shown in the Blood/Plasma Request Feeds. Appointments can be synchronized with Google and Outlook calendars for the ease of users.

Donor and Beneficiary Stories feature aims to create a sense of belonging to the community. Donors will be able to view and share personal experiences about their donation; Beneficiaries can share their experiences of receiving blood transfusion which contributed to their improved health and lives.

Live Check-in Process feature aims to provide a better experience with regards to the waiting time when the user is in the process of donation. We hypothesise that a more efficient experience will help the user look forward to his blood/plasma donation appointments.

12.APPENDIX

GitHub and Source code Link: https://github.com/IBM-EPBL/IBM-Project-10030-1659088980