PLASMA DONOR APPLICATION

TEAM ID - PNT2022TMID38560

A PROJECT REPORT

Submitted By

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COMPUTER SCIENCE AND ENGINEERING

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TABLE OF CONTENTS

CHAPTER 1

INTRODUCTION

The world is suffering from the COVID 19 crisis and no vaccine has been found yet.. But there is another scientific way in which we can help reduce mortality or help people affected by COVID19 by donating plasma from recovered patients. In the absence of an approved antiviral treatment plan for a fatal COVID19 infection, plasma therapy is an experimental approach to treat COVID19-positive patients and help them faster recovery. Therapy is considered competent. In the recommendation system, the donor who wants to donate plasma can donate by uploading their COVID19 certificate and the blood bank can see the donors who have uploaded the certificate and they can make a request to the donor and the hospital can register/login and search for the necessar things. plasma from a blood bank and they can request a blood bank and obtain plasma from the blood bank.

1.1 Project Overview

The main goal of our project is to make it easier for the COVID-19 patients to get a plasma donor easily as well as donate plasma if they have recovered. The system targets two types of users: the people who want to donate plasma and the people who need plasma. The main objective of developing the application is to make it easier for the COVID-19 patients to get a plasma donor easily and as soon as possible.

1.2 PURPOSE:

Plasma Donor Application deals with notifying concerned donor upon request by therecipient in need of plasma . This project provides quick access to donors for an immediate requirement of blood. In case of emergency/surgery. Blood procurement is always a major problem which consumes lot of time .

CHAPTER 2
LITERATURE SURVEY

2.1 Existing problem:

There are many people who are willing to donate plasma to those who need plasma.But there is not any accessible way to help them to find plasma donation centers in real-time. So, the problem is not the lack of donors, but finding the right sponsor at the right time. If someone needs plasma, they seek plasma first from family members, then from hospitals and the nearest plasma bank. If they can't process plasma in these ways, it's very difficult for them to contact another for a short-term plasma draw. This is a problem that I want to solve through this application. Instead of just providing plasma to people in need with an outdated list of regular plasma donors who may or may not be available to help, This application reaches the right people the moment users find Out.

2.2 References:

1. PLASMA DONOR APPLICATION USING FUNCTION-AS-A-SERVICE INAWS

Author : George Amvrosiadis 2020

2. ANDROID BASED HEALTH APPLICATION IN CLOUD COMPUTING FOR PLASMA

Author: Patil Sayali Dhond 2019

3. MOBILE APPLICATION DEVELOPMENT FOR PLASMA AND BLOOD DONOR

Author: Michael J Moss 2021

4. INSTANT PLASMA DONOR RECIPIENTC ONNECTOR WEBAPPLICATION

Author: Sanjay Mallisetti 2022

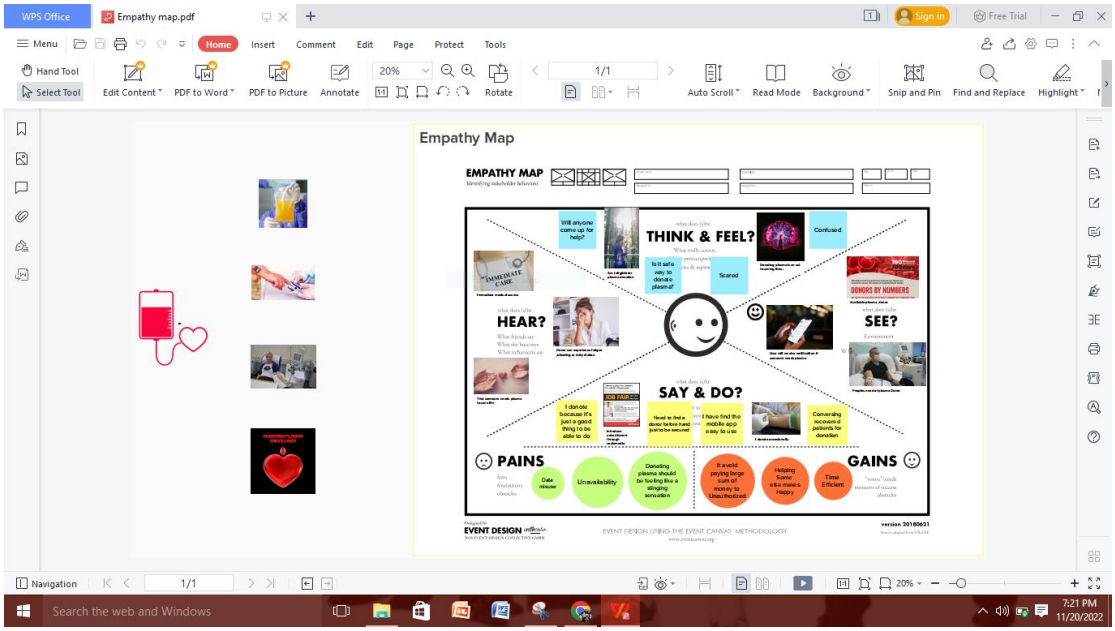
2.3 PROBLEM STATEMENT DEFINITION :

During COVID 19 crisis the requirement for plasma increased drastically as there were no vaccinations found in order to treat the infected patients. In such situation it was very difficult to find the plasma donor, check whether the donor was infected previously and was recovered, and which donor is eligible to donate plasma was a challenging task. As the plasma therapy was one of the ways to treat the infected patients getting the donor details played a major role.

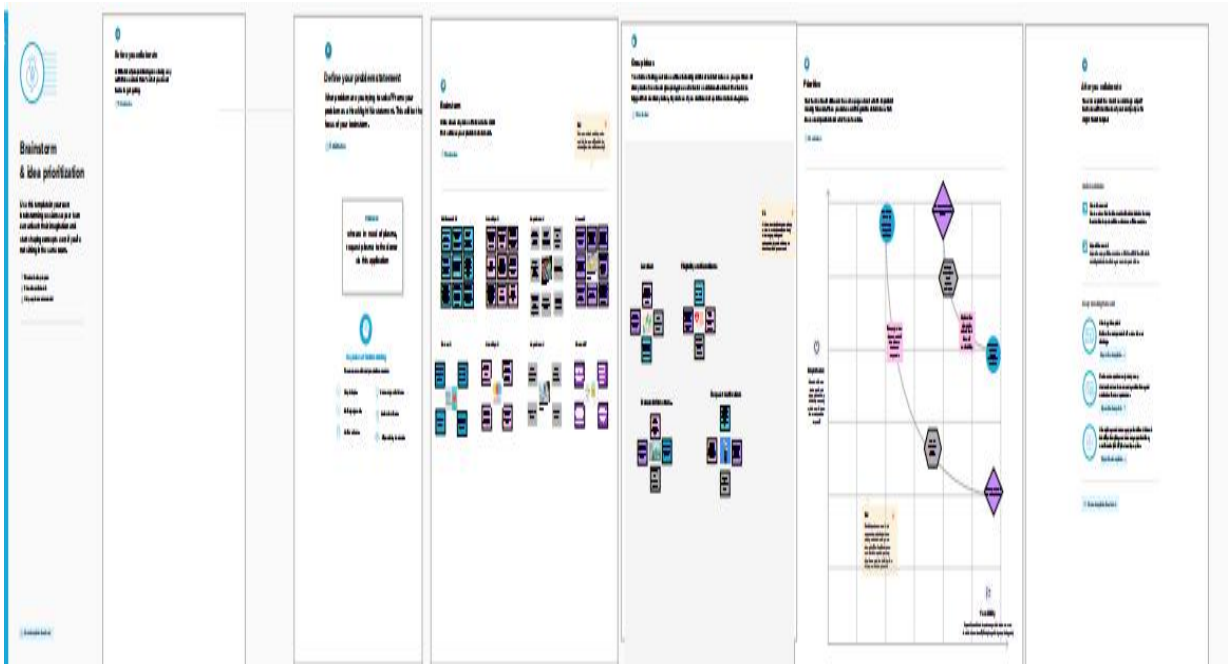
CHAPTER 3
IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas

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



3.2 Ideation & Brainstorming



3.3 Proposed Solution

Problem Statement (Problem to be solved):

During COVID 19 crisis the requirement for plasma increased drastically as there were no vaccinations found in order to treat the infected patients. In such situation it was very difficult to find the plasma donor, check whether the donor was infected previously and was recovered, and which donor is eligible to donate plasma was a challenging task. As the plasma therapy was one of the ways to treat the infected patients getting the donor details played a major roal

Idea / Solution description:

This proposed system aims at connecting the donors & the patients by an online application. By this creating application with UI to interact with the user for getting the donor details ,who need it can see their details providing them upon the recipient's request so that they can get the plasma.

Novelty / Uniqueness:

Our application allow the user to request and donate the plasma.The person need the plasma immediately or pre request. You have plasma immediately then give emergency request, then all registered member on the application to get voice alert.

Social Impact / Customer Satisfaction

In this covid19 period the requirement for plasma need high and the donor count has low, so using this application provides opportunity come forward to donate plasma. we have predicted that effect of donor motivation on donor relationship satisfaction and loyalty change.

Business Model (Revenue Model)

The application is user friendly and can be easily used. User Data can be stored in IBM DB2 in cloud which reduces the overall cost incurred for developing the application. This application is accessible by everyone . This can be used anywhere anytime.

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.

3.4 Problem Solution fit

3. TRIGGERS Earn rewards for donation. In emergency period is used for plasma. Plasma donor application will used to triggers the peoples to donate the plasma .	10. YOUR SOLUTION Our app allow the user to request and donate plasma .The person need the plasma immediately or pre request. You have plasma immediately then give emergency request , then all register members on the application	8. CHANNELS of BEHAVIOUR 8.1 ONLINE The plasma donor app allow user to make donor and receiver process to sending mail The user send the request any where any time Through social media.	
4. EMOTIONS: BEFORE / AFTER Before : confused ,Anxious ,Exhausted ,Scared After :Relaxed, Motivated	to get voice alert.	8.2 OFFLINE Ask friends or other previous user recommendation. User visit near by camp or hospital	

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CHAPTER 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 Form Registration through Website.
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP.
FR-3	Certification	After the donor donates plasma, we will provide certificate the appreciation and authentication.
FR-4	Searching	Users can use the search bar to look up information about the plasma donor.
FR-5	User plasma request	Users can request to donate plasma by filling out there quest form .
FR-6	End result	User can donate and request plasma in this application.

Non-functional Requirements:

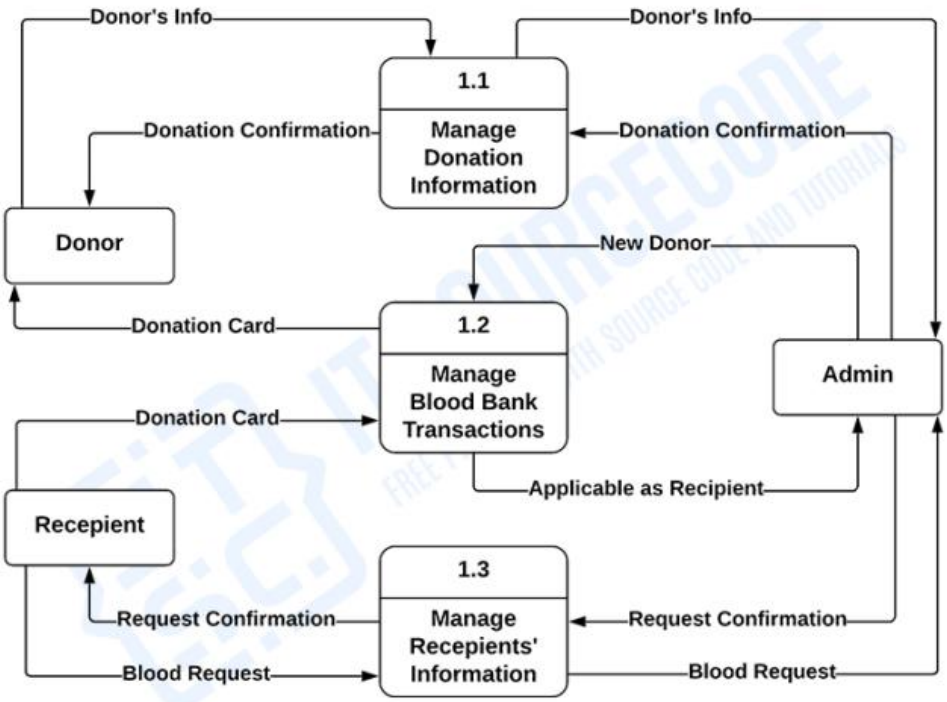
Following are the non-functional requirements of the proposed solution.

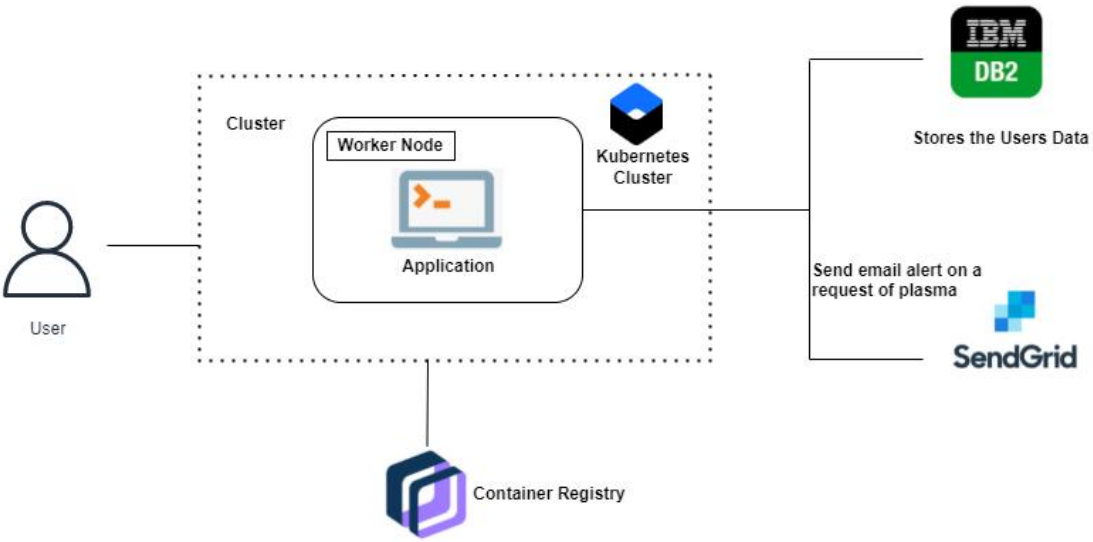
FR No	Non-Functional Requirement	Description
NFR-1	**Security**	The data storage is required by security systems just like its by many other application. The enter system needs to be safe and producter. It must be secured with email ID and password
NFR-2	**Reliability**	The system need to be reliable enough and needs to function without any network failures.The user easy to donate plasma and rescue the plasma.
NFR-3	**Performance**	The plasma donor system must perform well in different scenarios. the system is interactive and delayes involved or less
NFR-4	**Availability**	The system needs to be accessible to a user at any given point of time.
NFR-5	**Scalability**	The system offers the proper resources for issue solutions and is design to product sensitive information during all phases of operation.

CHAPTER 5

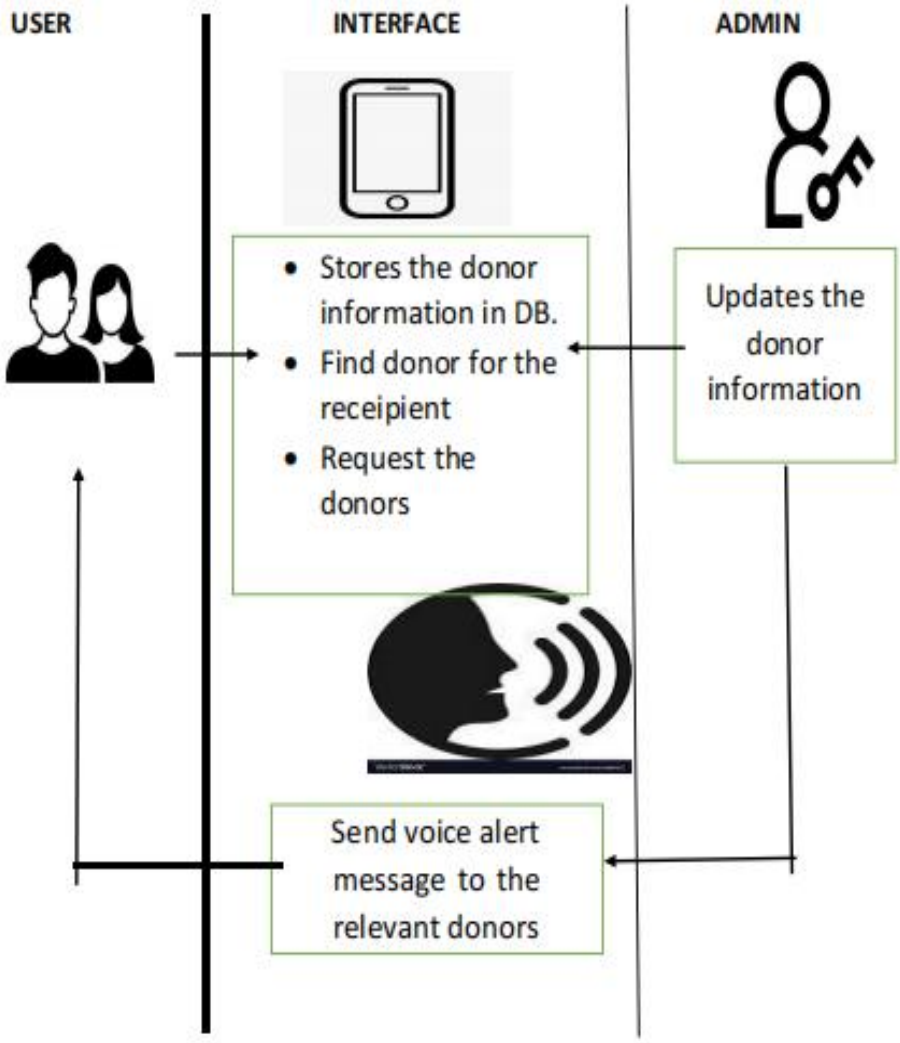
PROJECT DESIGN

5.1 Data Flow Diagrams





5.2 Solution & Technical Architecture



User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
Users	Confrimation	USN-2	As a user, I will receive confirmation email once I have registered for the application to Donate Plasma	I can receive confirmation email & click confirm	High	Sprint-1
Users	Regitration	USN-3	As a user, I can register for the application through Website or Application .	I can register & access the dashboard with Website Login	Medium	Sprint-2
Users	Regitration	USN-4	As a user, I can register for the application through plasma Donor App	I can confrom the regitration then access conditions	Medium	Sprint-1
Recipient	Login	USN-5	As a recipient , I can log into the application by entering email & password	I can view and access what are the features are provided in dashbord	High	Sprint-1
Users	Dashboard	USN-6	As a user, I can view and manage my profile, donation history and download the receipts.	I can view and manage my data at each section of the dashboard.	High	Sprint -1
Customer (Web user)	Website	USN-7	As the user I can login using my credentials and it will direct it to my dashboard	I can view and modify the given data	Medium	Sprint-2
Customer Care Executive	Health Care	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-2

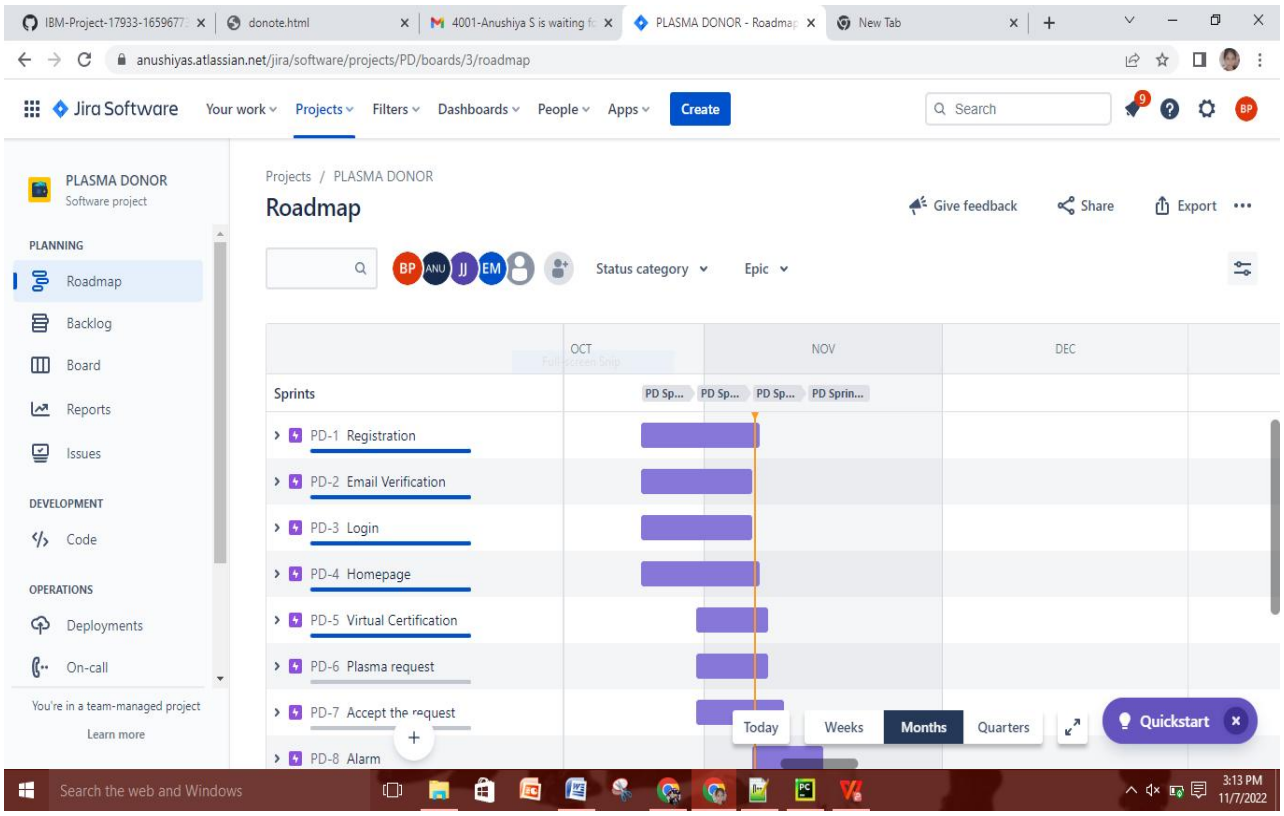
CHAPTER 6

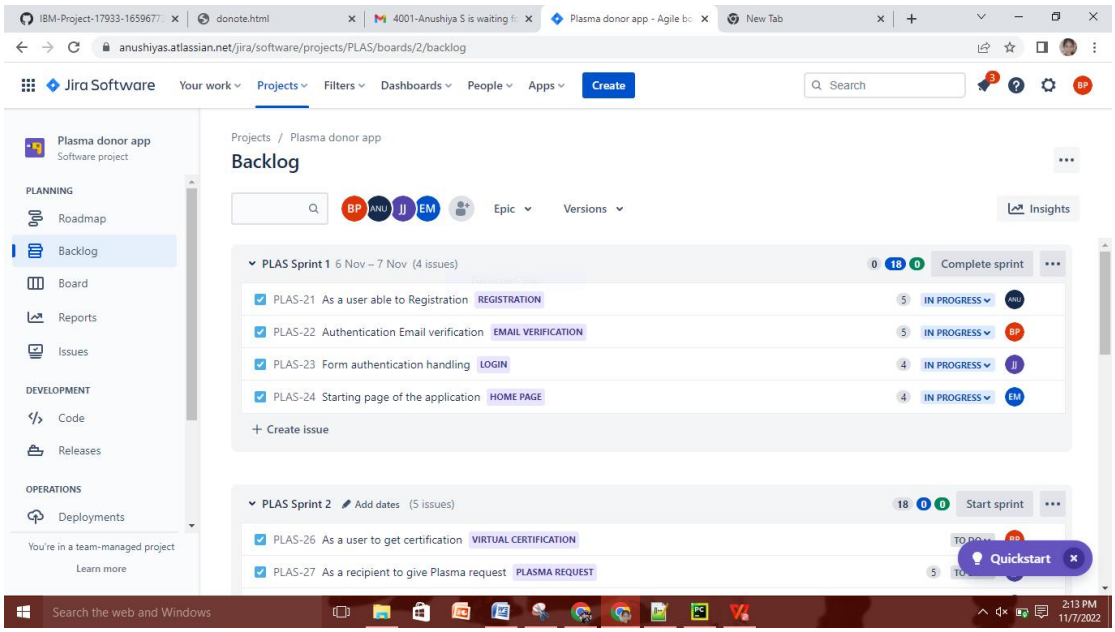
PROJECT PLANNING &SCHDULING

6.2 Sprint Delivery Schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user,I can register for the application by entering username, email id, password ,blood group etc.	5	High	Bhavani Ezhilammal
Sprint-1	Email verification	USN-2	As a user ,I will receive conformation email once I have register for the application.	5	High	Anushiya Jayashree
Sprint-1	Login	USN-3	As a use ,I can login into the application by entering user name, email id and password.	4	High	Bhavani Ezhilammal
Sprint-1	Home page	USN-4	As a user, I can view the home page of the application.And view. some details about plasma donation	5	Medium	Jayashree

6.3 Reports from JIRA





CHAPTER 7

CODING & SOLUTIONING

(Explain the features added in the project along with code)

FEATURE CODE :

```
from distutils.log import debug
# from sendgridmail import sendmail
from flask import Flask, render_template, request, redirect, url_for,
session
from flask_mail import Mail, Message
import re
import os
import ibm_db
from dotenv import load_dotenv
load_dotenv()
app = Flask(__name__)
app.secret_key = 'a'
print("Try to connect to Db2")
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-
73d1-4859-
88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;POR
T=
;UID=;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.
crt;PWD=
", ",")
print("Connected Successfully")
app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USERNAME'] = 'example@gmail.com'
app.config['MAIL_PASSWORD'] = '*******'
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)
@app.route('/')
@app.route('/login')
def login():
return render_template('login.html')
@app.route('/loginpage',methods=['GET', 'POST'])
def loginpage():
global userid
```

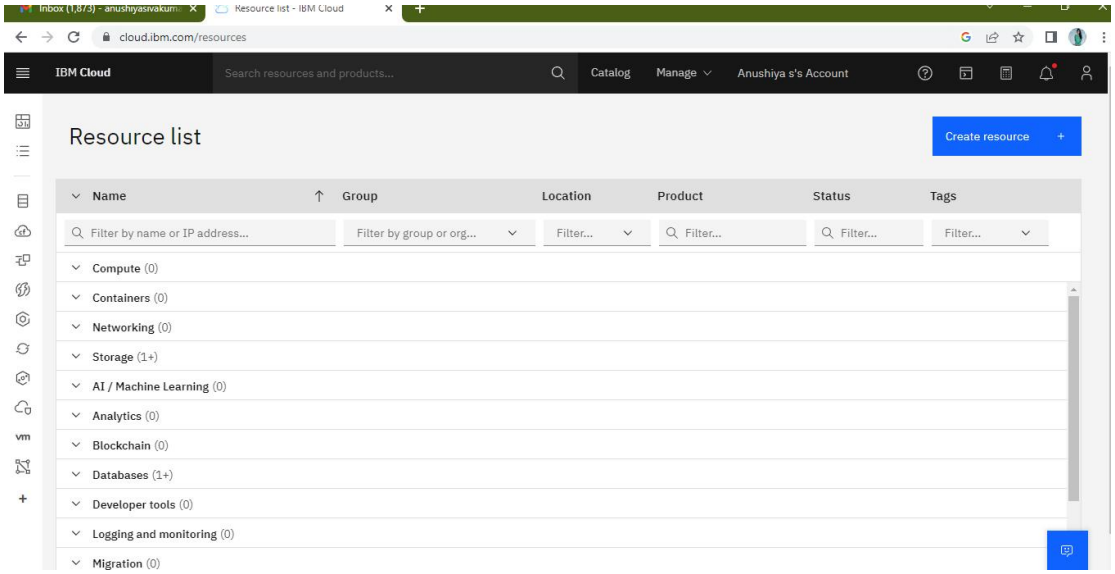
```
msg = ''
if request.method == 'POST' :
username = request.form['username']
password = request.form['password']
sql = "SELECT * FROM donors WHERE username =? AND
password=?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.bind_param(stmt,2,password)
 ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print (account)
if account:
session['loggedin'] = True
session['id'] = account['USERNAME']
userid= account['USERNAME']
session['username'] = account['USERNAME']
msg = 'Logged in successfully !'
index(account['EMAIL'],'Plasma donor App login','You are successfully
logged in!')
return redirect(url_for('dash'))
else:
msg = 'Incorrect username / password !'
return render_template('login.html', msg = msg)
@app.route('/registration')
def home():
return render_template('register.html')
@app.route('/register',methods=['GET', 'POST'])
def register():
msg = ''
if request.method == 'POST' :
username = request.form['username']
email = request.form['email']
 password = request.form['password']
phone = request.form['phone']
city = request.form['city']
infect = request.form['infect']
blood = request.form['blood']
sql = "SELECT * FROM donors WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
```

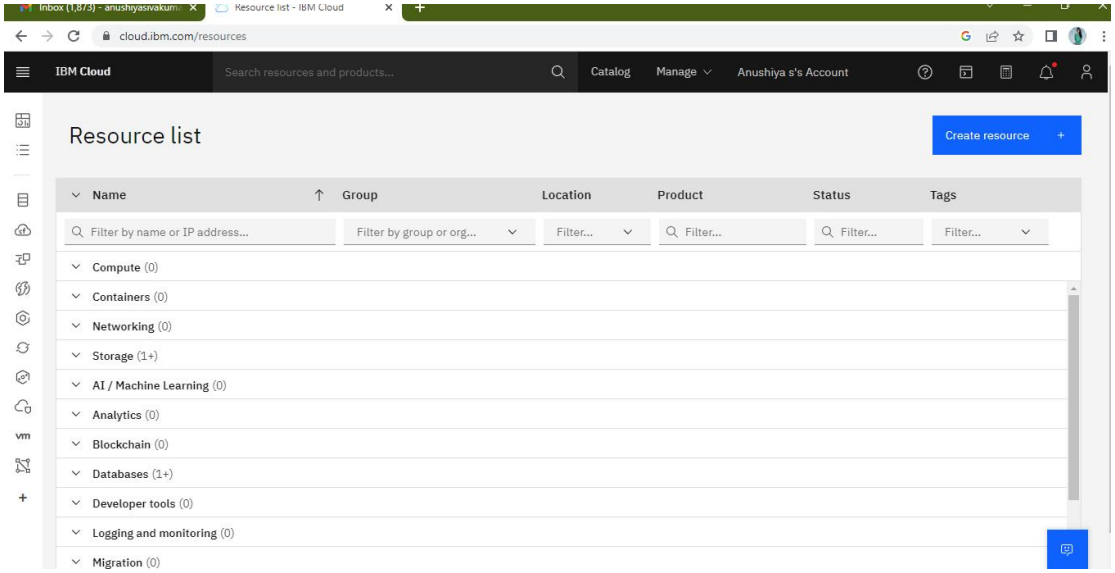
```
print("ac",account)
if account:
msg = 'Account already exists !'
elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', username):
msg = 'name must contain only characters and numbers !'
else:
insert_sql = "INSERT INTO donors VALUES (?, ?, ?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, password)
ibm_db.bind_param(prep_stmt, 3, email)
ibm_db.bind_param(prep_stmt, 4, phone)
ibm_db.bind_param(prep_stmt, 5, city)
ibm_db.bind_param(prep_stmt, 6, infect)
ibm_db.bind_param(prep_stmt, 7, blood)
ibm_db.execute(prep_stmt)
msg = 'You have successfully registered, !'
index(email,'Plasma donor App Registration','You are successfully
Registered {}!'.format(username))
elif request.method == 'POST':
msg = 'Please fill out the form !'
return render_template('register.html', msg = msg)
@app.route('/dashboard')
def dash():
if session['loggedin'] == True:
sql = "SELECT COUNT(*), (SELECT COUNT(*) FROM DONORS
WHERE blood= 'O Positive'), (SELECT COUNT(*) FROM DONORS
WHERE
blood='A Positive'), (SELECT COUNT(*) FROM DONORS WHERE
blood='B
Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='AB
Positive'),
(SELECT COUNT(*) FROM DONORS WHERE blood='O Negative'),
(SELECT
COUNT(*) FROM DONORS WHERE blood='A Negative'), (SELECT
COUNT(*) FROM DONORS WHERE blood='B Negative'), (SELECT
COUNT(*) FROM DONORS WHERE blood='AB Negative') FROM
donors"
stmt = ibm_db.prepare(conn, sql)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
```

```
print(account)
return render_template('dashboard.html',b=account)
 else:
msg = 'Please login!'
return render_template('login.html', msg = msg)
@app.route('/requester')
def requester():
if session['loggedin'] == True:
return render_template('request.html')
else:
msg = 'Please login!'
return render_template('login.html', msg = msg)
@app.route('/requested',methods=['POST'])
def requested():
bloodgrp = request.form['bloodgrp']
address = request.form['address']
name= request.form['name']
email= request.form['email']
phone= request.form['phone']
insert_sql = "INSERT INTO requested VALUES (?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, bloodgrp)
ibm_db.bind_param(prep_stmt, 2, address)
ibm_db.bind_param(prep_stmt, 3, name)
ibm_db.bind_param(prep_stmt, 4, email)
ibm_db.bind_param(prep_stmt, 5, phone)
ibm_db.execute(prep_stmt)
index(email,'Plasma donor App plasma request','Your request for plasma
is
recieved.')
return render_template('request.html', pred="Your request is sent to the
concerned people.")
def index(usermail,subject,content):
msg = Message(subject, sender = 'example@gmail.com', recipients =
[usermail])
msg.body = format(content)
mail.send(msg)
return "Sent"
@app.route('/logout')
def logout():
session.pop('loggedin', None)
session.pop('id', None)
session.pop('username', None)
```

```
return render_template('login.html')
if __name__ == '__main__':
app.run(host='0.0.0.0',debug='TRUE')
```

DATABASE SCHEMA :





7.2 Feature

Home.html

```
<!DOCTYPE html>
<html lang "en">

<head>

    <!-- Required meta tags -->
    <meta charset "utf-8">
    <meta name "viewport" content "width=device-width,
            initial-scale=1, shrink-to-fit=no">

    <link rel "stylesheet" href "page.css">

    <!-- Bootstrap CSS -->
    <link rel "stylesheet" href
"https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.c
ss"
        integrity
"sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
        crossorigin "anonymous">

    <title>                        </title>
<style>
    @import
url 'https://fonts.googleapis.com/css?family=Big+Shoulders+Text:100,
300, 400, 500, 600, 700, 800, 900&display=swap'

 /* font-family: 'Big Shoulders Text', cursive; */

 .nav-flex-row
     display  flex
     flex-direction  row
     justify-content  center
     position  absolute
     z-index  100
     left  0
     width  100%
     padding  0
     background-clip #f37b18d2


 .nav-flex-row li
     text-decoration  none
     list-style-type  none
     padding  20px 15px


 .nav-flex-row li a
     font-family  'Times New Roman'  serif
     color  rgb 216  19  19
     font-size  1.5em
     text-transform  uppercase
```

```
    font-weight  300

.nav-flex-row li a:hover
    background  #E7E7E7


.section-intro
    height  820px
    background-image  url img/foddiee.png
    background-size  cover
    display  flex
    flex-direction  column
    justify-content  center
    align-items  center


.section-intro h1
    text-align  center
    color  #000
    font-size  4em
    font-weight  700


.section-intro header
    display  flex
    flex  4
    flex-direction  row
    justify-content  center
    align-items  center


.link-to-book-wrapper
    flex  1


.about-section
    display  flex
    align-items  center
    background-color  #f3f3f3c0
    padding  50px 30px


.link-to-book
    color  #ffffff
    display  block
    border  2px solid #ffffff
    padding  5px 10px


a.link-to-book:hover
    background-color  #ffffff
    color  #95999e
    text-decoration  none


.about-section p
```

```
.about-section h3
    text-align  center
    width  60%
    margin  auto
    font-family  'Times New Roman'  serif
    font-size  1.8em
    text-transform  uppercase


.carousel-inner
    height  700px


.row-flex
    display  flex
    flex-direction  row


.flex-column-form
    display  flex
    flex-direction  column
    flex  1
    margin  30px 20px


.btn.btn-primary
    font-family  'Big Shoulders Text'
    color  #ffffff
    background-color  #95999e
    text-transform  uppercase
    font-size  16px
    padding  5px 10px
    letter-spacing  2px
    border  0


.btn.btn-primary:hover
    background-color  #747474

.opening-time
.contact-address
    flex  1
    margin  30px 20px
    font-size  1.2em


.form-group p
    font-size  1.2em


.opening-time p span
.contact-address p span
    display  block


@media  min-width 577px  and  max-width  800px
```

```
    .section-intro
        height  500px


    .about-section p
    .about-section h3
        font-size  20px


    .carousel-inner
        height  auto


    .row-flex
        display  flex
        flex-direction  column



@media screen and  max-width  576px
    .section-intro
        height  300px


    .about-section
        padding  30px


    .section-intro h1
        font-size  2em


    .about-section p
    .about-section h3
        font-size  15px


    .carousel-inner
        height  auto


    .row-flex
        display  flex
        flex-direction  column


    .row-flex h3
        font-size  25px
        text-align  center


    .form-group p
        font-size  15px
```

```
     .opening-time p span
     .contact-address p span
         font-size  15px
         text-align  center



</style>

</head>

<body backgroud   "C:\Users\Sajin\Downloads\plasma.jpg">


    <section class "section-intro">
        <header>
            <h1><img src "C:\Users\Sajin\Downloads\app.jpeg"
                class "d-block w-1" alt "food"
style "width:1500px;height:600px;">
        <br>

                                        </h1>
        </header>

    </section>
    <center>
        <img src "C:\Users\Sajin\Downloads\ball.jpg"
            class "d-block w-1" alt "food"
style "width:1300px;height:700px;">
    </center>


    <section class "about-section">
        <article>



<p>



            </p>

        </article>
    </section>

    <!-- carousel section -->
    <div id "carouselExampleControls"
        class "carousel slide" data-ride "carousel">
        <div class "carousel-inner">
```

```
            <div class "carousel-item active">
                <img src "C:\Users\Sajin\Downloads\donation.jpg"
                    class "d-block w-100">
            </div>
            <div class "carousel-item">
                <img src "C:\Users\Sajin\Downloads\donor.webp"
                    class "d-block w-100" alt "plasma">
            </div>
            <div class "carousel-item">
                <img src "C:\Users\Sajin\Downloads\heart.jpg"
                    class "d-block w-100" alt "food">

        </div>
        <a class "carousel-control-prev"
            href "#carouselExampleControls"
            role "button" data-slide "prev">
            <span class "carousel-control-prev-icon"
                aria-hidden "true">
            </span>
            <span class "sr-only">        </span>
        </a>
        <a class "carousel-control-next"
            href "#carouselExampleControls"
            role "button" data-slide "next">
            <span class "carousel-control-next-icon"
                aria-hidden "true">
            </span>
            <span class "sr-only">    </span>
        </a>
    </div>


            <div class "opening-time">
                <h3>

                </h3>

<p><ul type   “square”>

                    <span><li>
</li></span>
                    <span><li>
                     </li>  </span>
                    <span><li>
          </li> </span>
                    <span> <li>
                                        </li></span>
                    </ul>
                </p>

            </div>

        </div>
    </div>
```

```
    <!-- Optional JavaScript -->
    <!-- jQuery first, then Popper.js, then Bootstrap JS -->

    <script src "https://code.jquery.com/jquery-3.3.1.slim.min.js"
        integrity
"sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
        crossorigin "anonymous">
    </script>

    <script src
"https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.
js"
        integrity
"sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
        crossorigin "anonymous">
    </script>

    <script src
"https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js
"
        integrity
"sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
        crossorigin "anonymous">
    </script>
</body>

</html>
```

REGISTER :

```
<html>
    <head>
        <title>register        </title>


    </head>
    <body background "G:\register.png">
        <a href "login.html">

        </a>
        <form><center><br><br><br>
            <h2>            </h2>

            <label for "r1" id "f_n"><b>          <b></label>
            <input type "text" name "fname" id "r1" placeholder "first
name"><br><br>

            <label for "r2" id "l_n"><b>         <b></label>
            <input type "text" name "lname" id "r2" placeholder "last
name"><br><br>
```

```
            <label for "r4" id "p_n"><b>        <b> </label>
            <input type "text" name "pno" id "r4" placeholder "ph
no" ><br><br>

            <label for "r3" id "u_i"><b>       <b></label>
            <input type "text" name "uid" id "r3" placeholder "email id
or UserName"><br><br>

            <label for "r5" id "pass"><b>        <b></label>
            <input type "password" name "passwd" id "r5" placeholder "8
characters"><br><br>

            <label for "r6" id "re_pass"><b>                <b></label>
            <input type "password" name "repss" id "r6" placeholder "8
characters"><br><br>


            <a href "login.html">
                <button type "button" value "submit">       </button>
            </a>
            <button type "submit" value "submit"  id "button"
onclick "alert(' Your Registration is Successfully')">        </button>
        </center>
        </form>

    </body>
</html>
```

LOGIN :

```
<html>
    <head>
        <title>     </title>
        <a href "dashboard.html"></a>
    </head>
    <body background "G:\login.jpg">
        <div id "container">
            <form action "login" method "post" id "login">

                <div class "border-box">
                    <center><h2>     </h2><br>
                    <label for "u_name" id "un">        </label>
                    <input type "text" name "user"
Placeholder "UserName" id "u_name"><br><br>

                    <label for "passwd" id "ps">        </label>
                    <input type "password" name "paswd"
placeholder "Password" id "passwd"><br><br>
                    <a
href "dashboard.html">      </a>
```

```
                    <a href "register.html">      </a><center>
                </div>

                </a>
            </form>
        </div>
    </body>
</html>
```

DONATIOM :

```
<!DOCTYPE html>
<html lang="en">

<head>
  <title>Donation</title>
  <style>
    body {

      height: 455px;
      text-align: center;
      font-family: Times new roman ;
 background-image: url('pls.jpg') ;
    }

    h3 {
      color: rgb(0,0,0);
      font-size: 40px;
    }

    .normal
    {
      border: 2px;
      border-style: ridge;
      border-radius: 7px;
      padding-top: 5px;
      padding-left: 8px;
      padding-bottom: 8px;
      padding-right: 8px;
      border-color: rgb(0, 0, 0);
      height: 22px;
      width: 400px;
    }

    button {
      border: 2px;
      border-radius: 10px;
      padding-top: 8px;
      padding-left: 8px;
      padding-bottom: 8px;
```

```
      padding-right: 8px;
      border-style: ridge;
      width: 90px;
      opacity: 90%;
      border-color: rgb(0, 0, 0);
      cursor: pointer;
    }

    .right {
      width: 50%;
      float: right;
    }

    .left {
      width: 50%;
      float: left;
    }

    p {
    text-align: left;
    padding-left: 7px;
}

    .address {
      border: 2px;
      border-style: ridge;
      border-radius: 7px;
      padding-top: 8px;
      padding-left: 8px;
      padding-bottom: 8px;
      padding-right: 8px;
      border-color: rgb(0, 0, 0);
      height: 75px;
      width: 395px;
    }

    .req_cont {
    margin-top: 50px;
    width: 40%;
    border: 1px solid #9c9c9c;
    border-radius: 9px;
    box-shadow: 4px 3px 11px 0px grey;
    background-color: #00FFFF;
}
    .req_cont_main {
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
    }
```

```
    .bottom_py {
      width: 100%;
    display: flex;
    flex-direction: column;
    align-items: center;

    }
    .form{
     display:flex;
     flex-direction: column;
     align-items: center;
     justify-content:center;
    }
  </style>
</head>

<body>
  <div class="req_cont_main">
    <div class="req_cont">

        <h3>APPLY FOR PLASMA DONATION</h3>
        <form method="post" class="form">


          <input class="normal" type="text" name="name" placeholder="Name"
required /><br>
          <input class="normal" type="email" name="email" placeholder="Email"
required /><br>
          <input class="normal" type="number" name="mobile"
placeholder="Mobile" required /><br>
          <input class="normal" type="number" name="age" placeholder="Age"
required /><br>
          <input class="normal" type="text" name="sex" placeholder="Gender"
required />
 <br>

 <input class="normal" type="text" name="Blood" placeholder="Blood group"
required />
           <br> <div>
       <form action="upload.php" method="post" enctype="multipart/form-data">
            Select certificate to upload:
       <input type="file" name="fileToUpload" id="fileToUpload">
       </form><br></div><br>
   <textarea class="address" name="address" placeholder="Address"
required ></textarea><br>
        <button style="text-align: center;" type="submit">Submit</button>
        </form>

    </div>
```

```
  </div>
</body>

</html>
```

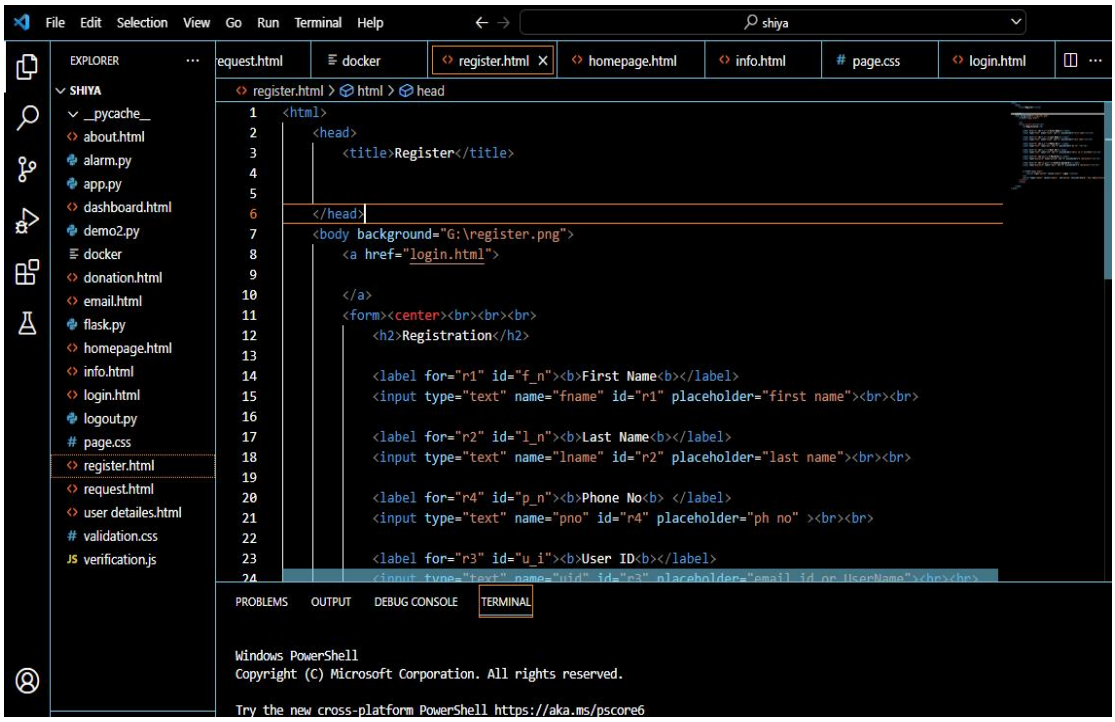
Request:

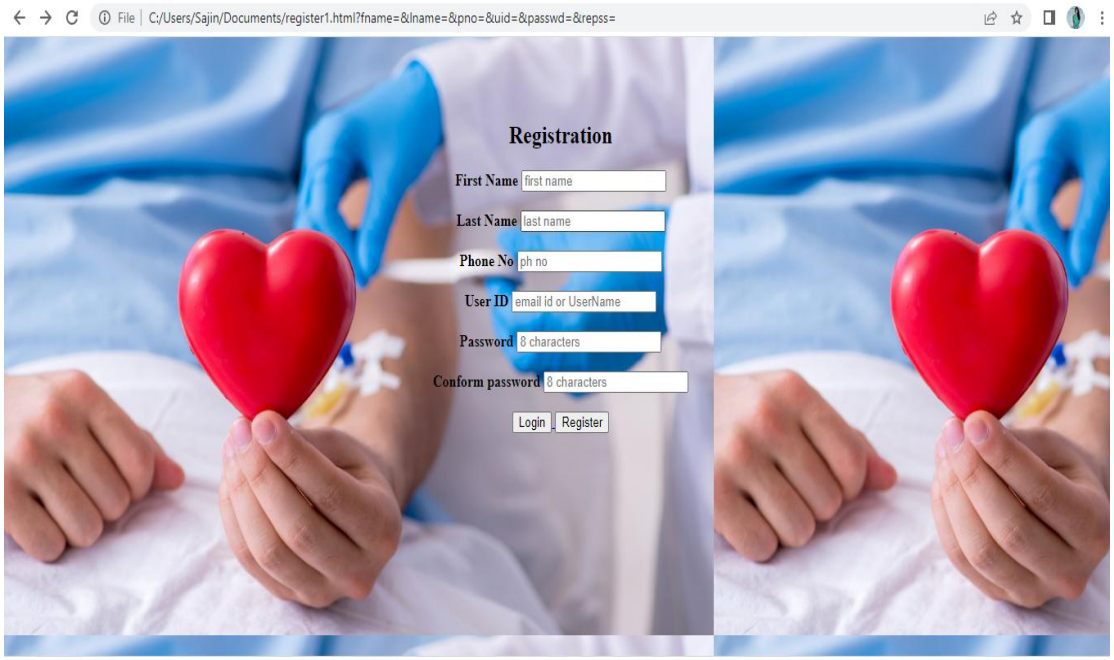
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Request</title>

    <style>
        body{
          background: rgb(255, 255, 255);
          height: 553px;
          text-align: center;
          font-family: Algerian;
 background-color:tomato;
        }

        h3{
          color: rgb(6, 241, 238);
          font-size: 40px;
        }

        input{
          border: 2px;
          border-style: ridge;
          border-radius: 7px;
          padding-top: 8px;
          padding-left: 8px;
          padding-bottom: 8px;
          padding-right: 8px;
          border-color: blue;
          height: 25px;
          width:400px;
        }
        button{
          border: 2px;
          border-radius: 10px;
          padding-top: 8px;
          padding-left: 8px;
          padding-bottom: 8px;
          padding-right: 8px;
          border-style: ridge;
          width: 90px;
          opacity: 90%;
          border-color: blue;
          cursor:pointer;
```

```
        }

        .right{
          width:50%;
          float: right;
        }

        .left{
          width: 50%;
          float: left;
        }


    </style>
  </head>
  <body>
  <script>
  </script>
    <h3>PLASMA REQUEST</h3>
    <form method="post">
<div class="bg" background-image="pls.jpg" width="500" height="50">
    <div class="right">
        <input type="text" name="blood_group" placeholder="Blood Group"
required /><br><br>
        <input type="number" name="aadhar" placeholder="Aadhar" required
/><br><br>
        <input type="text" name="state" placeholder="State" required /><br><br>
        <input type="text" name="city" placeholder="City" required /><br><br>
        <input type="password" name="password" placeholder="Password"
required /><br><br>
    </div>
    <div class="left">
        <input type="text" name="name" placeholder="Name" required
/><br><br>
        <input type="email" name="email" placeholder="Email" required
/><br><br>
        <input type="number" name="mobile" placeholder="Mobile" required
/><br><br>
        <input type="number" name="age" placeholder="Age" required
/><br><br>
        <input type="text" name="gender" placeholder="Gender" required
/><br><br>
    </div>
</div>
      <button type="submit">Request</button>
    </form>
  </body>
</html>
```

CHAPTER 8

TESTING





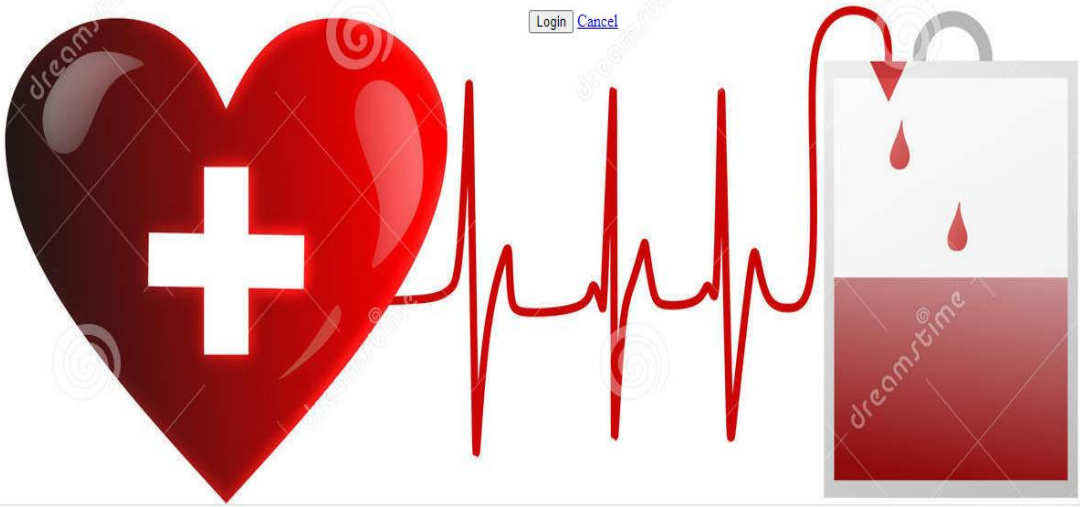
File | C:/Users/Sajin/Documents/login1.html

Login

UserName UserName

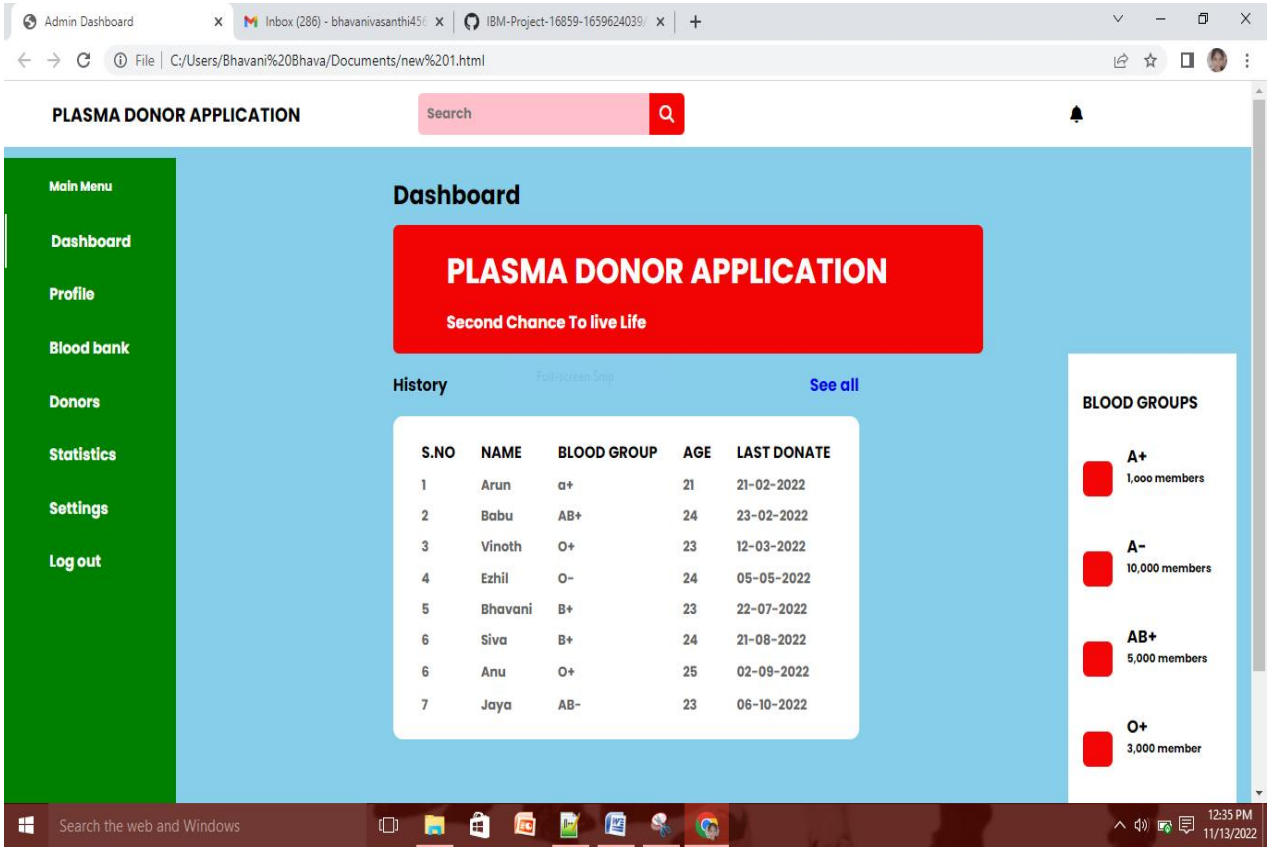
Password Password

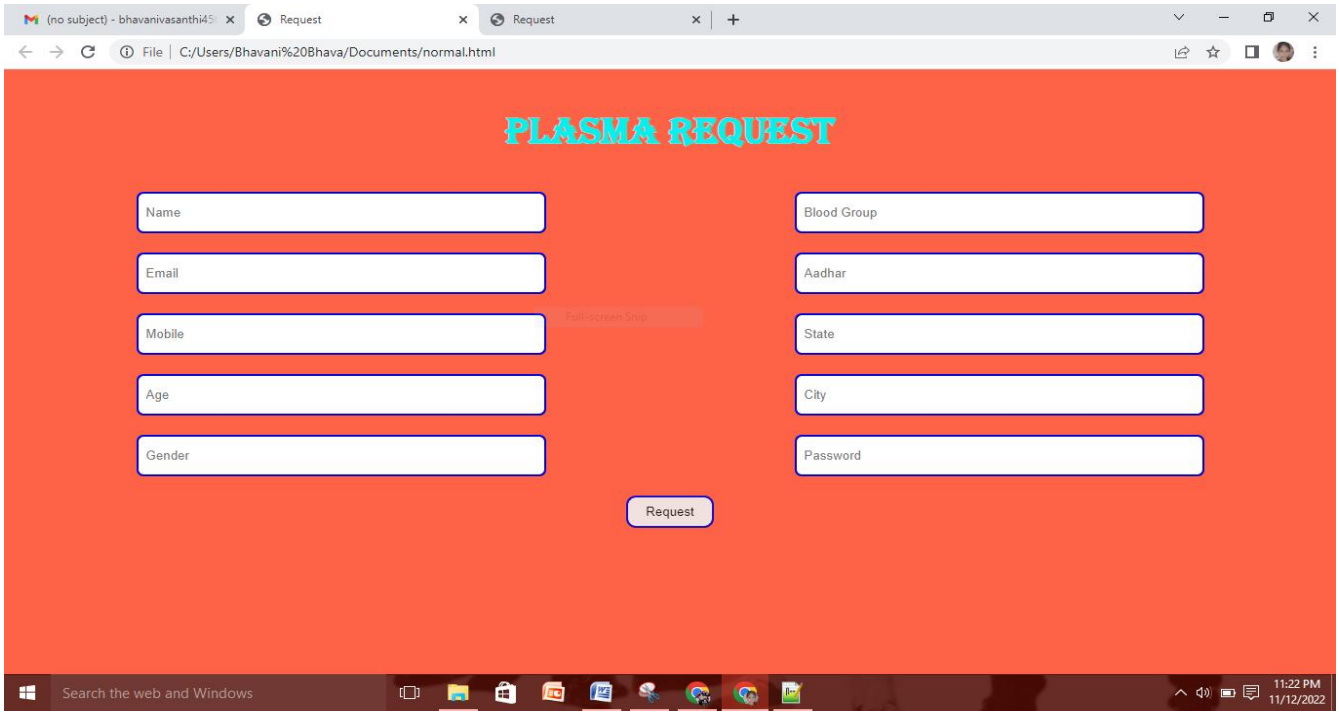
Login Cancel

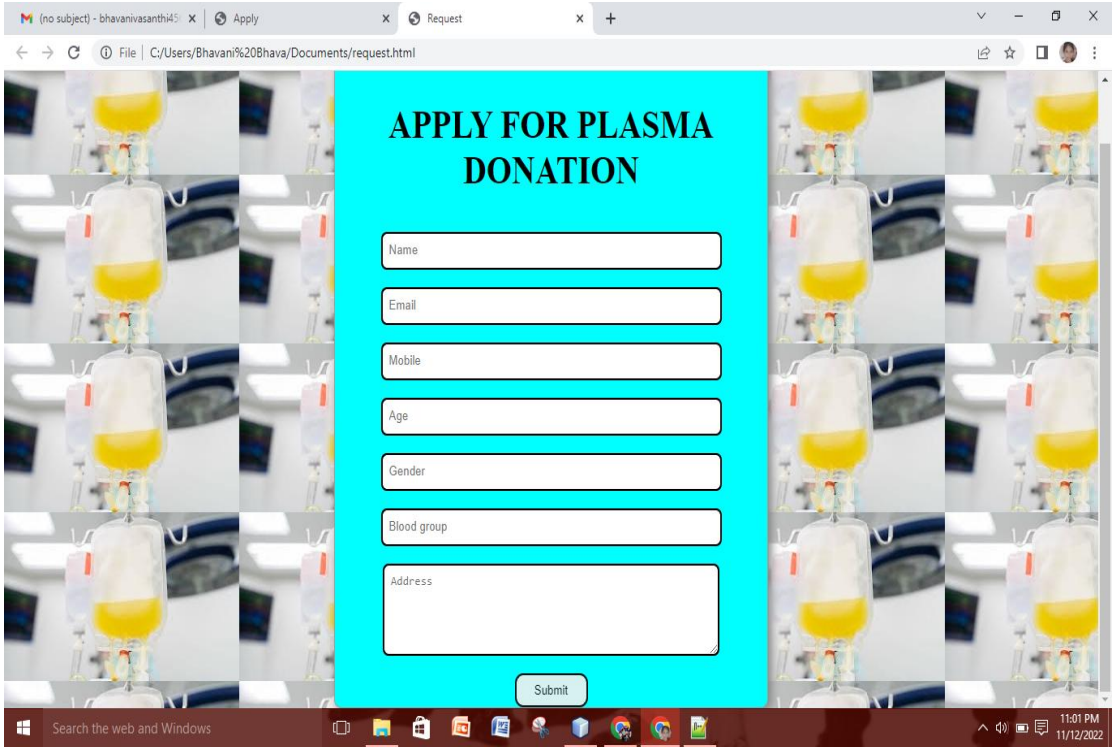


File | C:/Users/Sajin/Desktop/shiya/homepage.html

DONATE PLASMA SAVE LIFE !!


Admin Dashboard
Inbox (286) - bhavanivasanthi45
IBM-Project-16859-1659624039
File | C:/Users/Bhavani%20Bhava/Documents/new%201.html
PLASMA DONOR APPLICATION
Search
Main Menu
Dashboard
Profile
Blood bank
Donors
Statistics
Settings
Log out
Dashboard
PLASMA DONOR APPLICATION
Second Chance To live Life
History
See all
S.NO NAME BLOOD GROUP AGE LAST DONATE
1 Arun a+ 21 21-02-2022
2 Babu AB+ 24 23-02-2022
3 Vinoth O+ 23 12-03-2022
4 Ezhil O- 24 05-05-2022
5 Bhavani B+ 23 22-07-2022
6 Siva B+ 24 21-08-2022
6 Anu O+ 25 02-09-2022
7 Jaya AB- 23 06-10-2022
BLOOD GROUPS
A+
1,000 members
A-
10,000 members
AB+
5,000 members
O+
3,000 member
Search the web and Windows
12:35 PM
11/13/2022


(no subject) - bhavanivasanthi45
Request
Request
File | C:/Users/Bhavani%20Bhava/Documents/normal.html
PLASMA REQUEST
Name
Blood Group
Email
Aadhar
Mobile
State
Age
City
Gender
Password
Request
Search the web and Windows
11:22 PM
11/12/2022


(no subject) - bhavanivasanthi45
Apply
Request
File
C:/Users/Bhavani%20Bhava/Documents/request.html
APPLY FOR PLASMA DONATION
Name
Email
Mobile
Age
Gender
Blood group
Address
Submit
Search the web and Windows
11:01 PM
11/12/2022

CHAPTER 9

ADVANTAGES & DISADVANTAGES

ADVANTAGES :

- Easy connecting donors and recipients makes plasma donation way more proficient.
- Prime motive of the app is to solve the perpetual shortfall of plasma donors.
- It connects plasma donors and recipients through a single and scalable platform.
- Effortless access : Users on this platform will be able to use the app with just one click.
- Easy registration through the mobile app will help getting quick access from
- both ends.

DISADVANTAGES :

- Only with proper internet connection to use this application.
- It cannot an auto verify user genuiness.

CHAPTER 10

CONCLUSION

Enhanced mobile application for plasma has been developed to help the administrator to attend more donors and recipients and make user management an easy task. This mobile application will attract more users as it is user friendly. his 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 framework

CHAPTER 11:
FUTURE SCOPE

The sole purpose of this project is to develop a computer system that will link all donors, control plasma transfusion service and create database to hold data on stocks of plasma in each area. Furthermore people will be able to see which patients need plasma supplies via android application

.

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 experiencesabout 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 tohis blood/plasma donation appointments

app.py

```
from distutils.log import debug
# from sendgridmail import sendmail
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mail import Mail, Message
import re
import os
import ibm_db
from dotenv import load_dotenv
load_dotenv()
app = Flask(__name__)
app.secret_key = 'a'
print("Try to connect to Db2")
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-
88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=
;UID=;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;PWD=",
",")
print("Connected Successfully")app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USERNAME'] = 'example@gmail.com'
app.config['MAIL_PASSWORD'] = '*******'
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)
def index(usermail,subject,content):
msg = Message(subject, sender = 'example@gmail.com', recipients = [usermail])
msg.body = format(content)
mail.send(msg)
return "Sent"
@app.route('/logout')
```

```
def logout():
session.pop('loggedin', None)
session.pop('id', None)
session.pop('username', None)
return render_template('login.html')
if __name__ == '__main__':
app.run(host='0.0.0.0',debug='TRUE')
```

GITHUB LINK :

https://github.com/IBM-EPBL/IBM-Project-17933-1659677313

PROJECT DEMO LINK :

https://youtu.be/dXslqFrGdaw