PLASMA DONAR APPLICATION

A PROJECT

IV YEAR / VII SEM

R2019

Submitted by

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of

BACHELOR OF TECHNOLOGY

in

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JERUSALEM COLLEGE OF ENGINEERING

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Velachery Main Road, Narayanapuram, Pallikaranai, Chennai – 600 100

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CONTENTS

CHAPTER-1

INTRODUCTION

With rapid increase in the usage of social networks sites across the world, there is also a steady increase in plasma donation requests as being noticed in the number of posts on these sites such as Face book and twitter seeking plasma donors.

Finding plasma donor is a challenging issue in almost every country. There are some plasma donor finder applications in the market such as Blood app by Red Cross and Blood Donor Finder application by Neologix.

1.1 PROJECT OVERVIEW

Several software technologies including languages and framework are used to develop our plasma-donor web application known as “**PLASMA DONOR APPLICATION**”.

These technologies include 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.

1.2 PURPOSE

The main goal of our project is to design a user-friendly web application that is like a scientific vehicle from which we can help reduce mortality or help those affected by COVID19 by donating plasma from patients who have recovered without approved antiretroviral therapy planning for a deadly COVID19 infection.

Your application helps patients who need plasma-derived biotherapies to improve or save their lives. Those in need are suffering from life-threatening conditions such as hemophilia, immune deficiencies, and other blood disorders.
Plasma is the essential ingredient in many medications and treatments.

CHAPTER -2

LITERATURE SURVEY

2.1 EXISTING PROBLEM

There are a quite good number of software packages that exist for PLASMA DONOR APPLICATION system. But when I visited most plasma donor center system portal. I found that existing system is limited only to those particular plasma center.

Problem Found In Existing System:

- At the present there is no software to keep any records in plasma center.
- It becomes difficult to provide any record immediately at times of emergency.
- 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.
- Difficult to manage and maintain the files.
- Chance of damage of files, if the data is stored in the files for duration of time.
- Time consuming is retrieving, storing and updating the data.
- It is difficult to keep track the record about the donor & receiver he has donated or received the plasma at the last time.

2.2 REFERENCES

CASE STUDY - I

TITLE: Instant Plasma donar Recipient connector web application

AUTHOR: Kalpana Devi Guntoju, Tejaswini Jalli, Sreeja Uppala, Sanjay Mallisetti

YEAR: 2022

ABSTRACT:

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 necessary things. plasma from a blood bank and they can request a blood bank and obtain plasma from the blood bank.

CASE STUDY - II

TITLE: Determinants of plasma donation: A review of the literature

AUTHOR: A.Beurel, F. Terrade, J.P.Lebaudy, B. Danic

YEAR: 2017

ABSTRACT:

The major contribution of Human Sciences in the understanding of the whole blood donation behavior has been through the study of individuals' motivations and deterrents to donate. However, if whole blood donation has been very widely studied in the last sixty years, we still know very little about plasma donation in voluntary non-remunerated environments. Yet, the need for plasma-derived products has been strongly increasing for some years, and blood collection agencies have to adapt if they want to meet this demand. This article aims to review the main motivations and deterrents to whole blood donation, and to compare them with those that we already know concerning plasma donation. Current evidence shows similarities between both behaviours, but also differences that indicate a need for further research regarding plasma donation.

CASE STUDY – III

TITLE: Developing a plasma donor application using Function-as-a-service in AWS

AUTHOR: Aishwarya R Gowri

YEAR: 2020

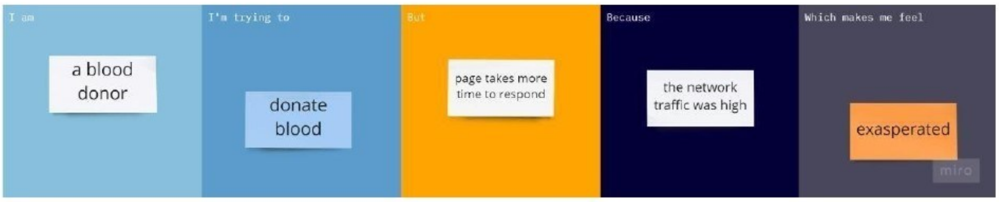
ABSTRACT:

A plasma is a liquid portion of the blood, over 55% of human blood is plasma. Plasma is used to treat various infectious diseases and it is one of the oldest methods known as plasma therapy. Plasma therapy is a process where blood is donated by recovered patients in order to establish antibodies that fights the infection. In this project plasma donor application is being developed by using AWS services. The services used are AWS Lambda, API gateway, DynamoDB, AWS Elastic Compute Cloud with the help of these AWS services, it eliminates the need of configuring the servers and reduces the infrastructural costs associated with it and helps to achieve serverless computing. For instance, during COVID 19 crisis the requirement for plasma increased drastically as there were no vaccination found in order to treat the infected 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 donor information and notifying about the current donors would be a helping hand as it can save time and help the users to track down the necessary information about the donors.

2.3 PROBLEM SOLUTION DEFINITION

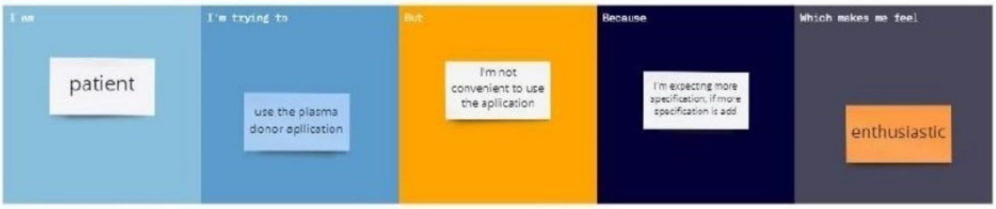
Customer Problem Statement:

Problem Statement-1:



I am	I'm trying to	But	Because	Which makes me feel
a blood donor	donate blood	page takes more time to respond	the network traffic was high	exasperated

Problem Statement-2:



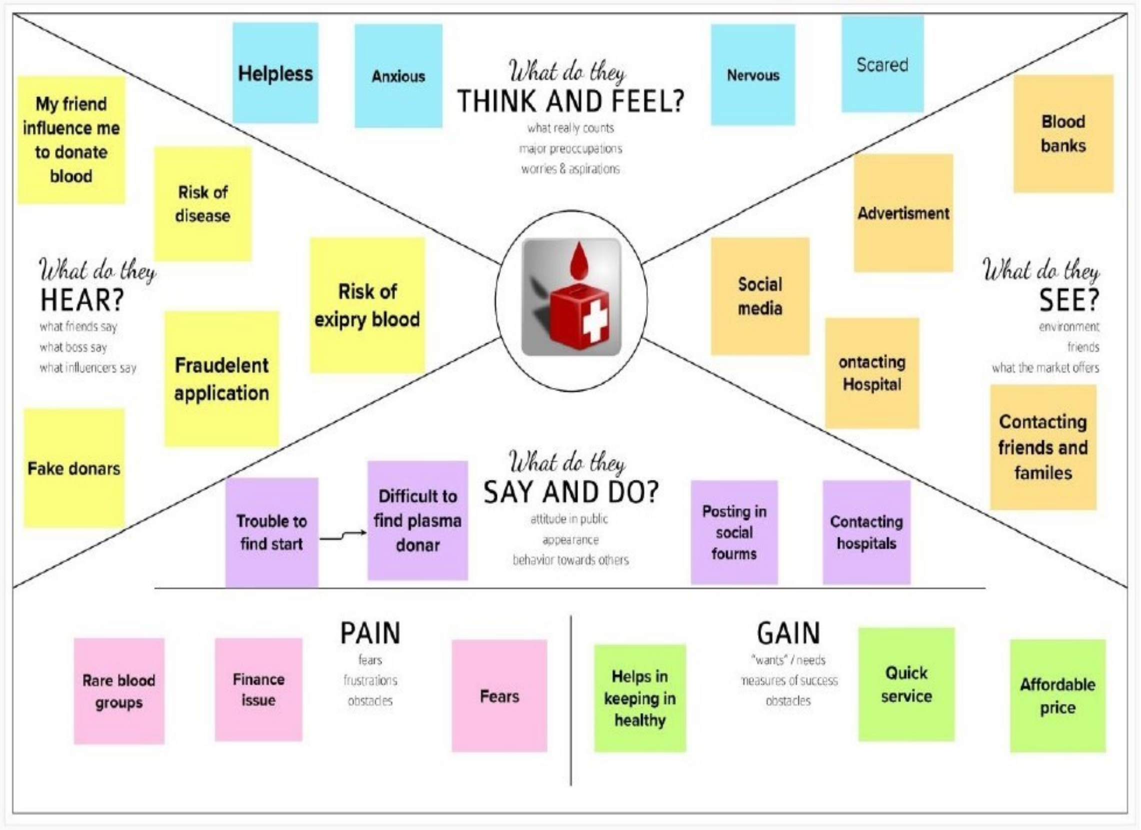
I am	I'm trying to	But	Because	Which makes me feel
patient	use the plasma donor apllication	I'm not convenient to use the aplication	I'm expecting more specification, if more specification is add	enthusiastic

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	a Blood Donor	Donate blood	page takes more time to respond.	the network traffic was high.	exasperated
PS-2	patient	Use the plasma donor application	I'm not convenient to use the application	I'm expecting more specification, if more specification is added.	Enthusiastic

CHAPTER 3

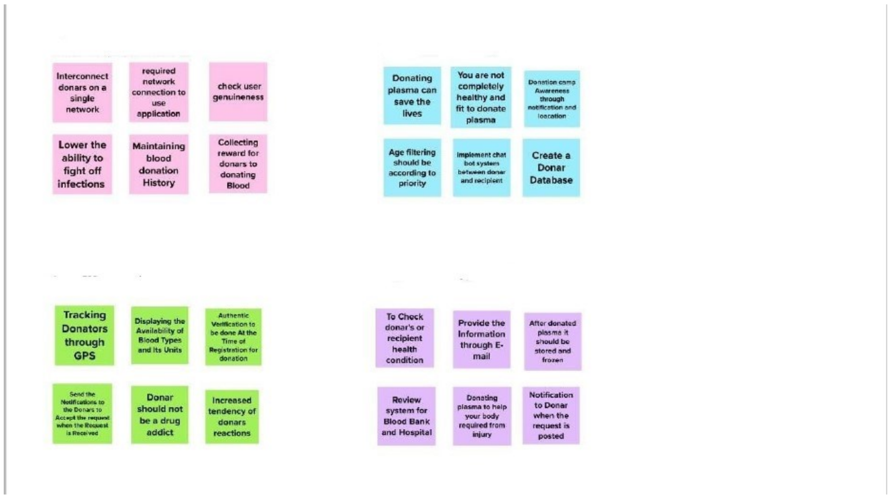
IDEATION AND PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

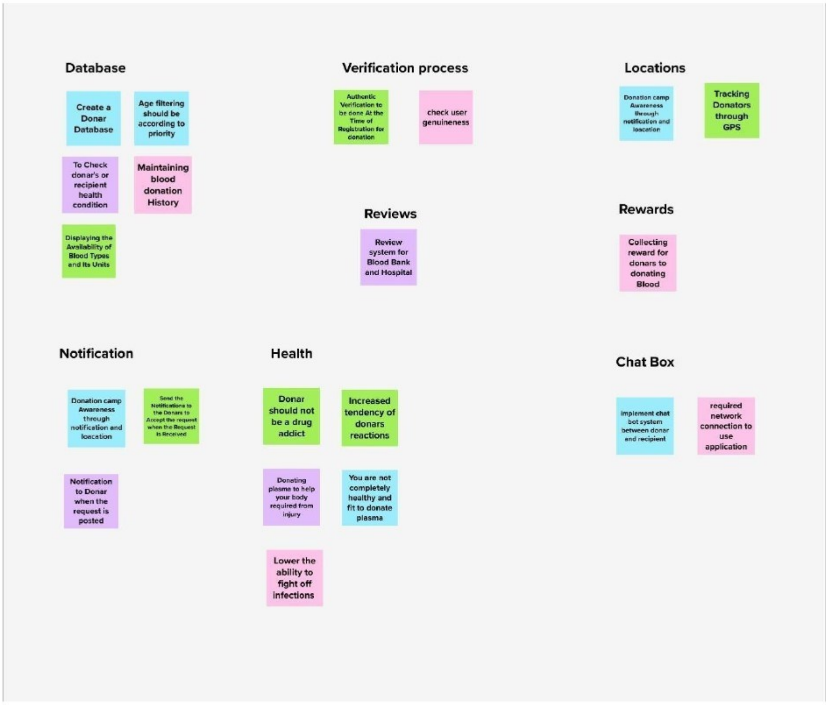


3.2 IDEATION AND BRAINSTORMING

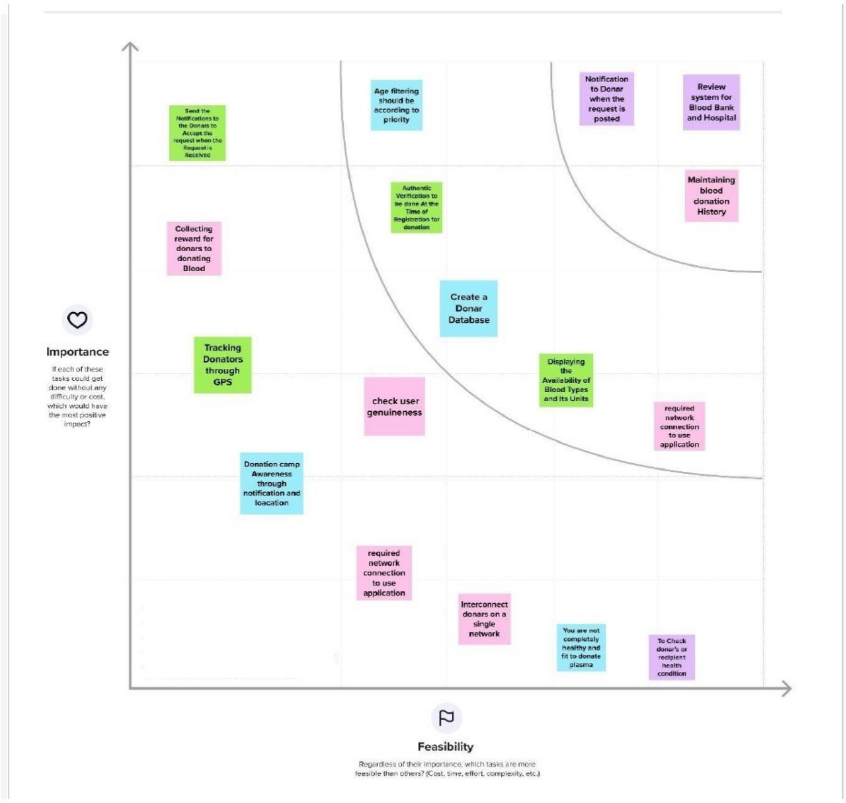
Step-1: Team Gathering, Collaboration and Select the Problem Statement


Interconnect donars on a single network
required network connection to use application
check user genuineness
Lower the ability to fight off infections
Maintaining blood donation History
Collecting reward for donars to donating Blood
Donating plasma can save the lives
You are not completely healthy and fit to donate plasma
Donation camp Awareness through notification and loacation
Age filtering should be according to priority
Implement chat bot system between donar and recipient
Create a Donar Database
Tracking Donators through GPS
Displaying the Availability of Blood Types and its Units
Authentic Verification to be done At the Time of Registration for donation
Send the Notifications to the Donars to Accept the request when the Request is Received
Donar should not be a drug addict
Increased tendency of donars reactions
To Check donar's or recipient health condition
Provide the Information through E-mail
After donated plasma it should be stored and frozen
Review system for Blood Bank and Hospital
Donating plasma to help your body required from injury
Notification to Donar when the request is posted

Step-2:Brainstorm, Idea Listing and Grouping

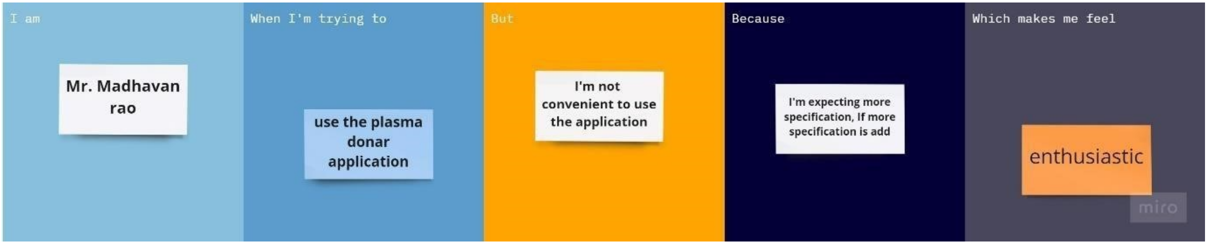

Database
Create a Donar Database
Age filtering should be according to priority
To Check donar's or recipient health condition
Maintaining blood donation History
Displaying the Availability of Blood Types and Its Units
Verification process
Authentic Verification to be done At the Time of Registration for donation
check user genuineness
Locations
Donation camp Awareness through notification and loacation
Tracking Donators through GPS
Reviews
Review system for Blood Bank and Hospital
Rewards
Collecting reward for donars to donating Blood
Notification
Donation camp Awareness through notification and loacation
Send the Notifications to the Donars to Accept the request when the Request is Received
Notification to Donar when the request is posted
Health
Donar should not be a drug addict
Increased tendency of donars reactions
Donating plasma to help your body required from injury
You are not completely healthy and fit to donate plasma
Lower the ability to fight off infections
Chat Box
implement chat bot system between donar and recipient
required network connection to use application

Step-3: Idea Prioritization


Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?
Feasibility
Regardless of their importance, which tasks are more feasible then others? (Cost, time, effort, complexity, etc.)
Send the Notifications to the Donars to Accept the request when the Request is Received
Age filtering should be according to priority
Notification to Donar when the request is posted
Review system for Blood Bank and Hospital
Authentic Verification to be done At the Time of Registration for donation
Maintaining blood donation History
Collecting reward for donars to donating Blood
Create a Donar Database
Tracking Donators through GPS
check user genuineness
Displaying the Availability of Blood Types and its Units
required network connection to use application
Donation camp Awareness through notification and loacation
required network connection to use application
Interconnect donars on a single network
You are not completely healthy and fit to donate plasma
To Check donar's or recipient health condition

3.3 PROPOSED SOLUTION

Proposed solution – I



I am

Mr. Madhavan rao

When I'm trying to

use the plasma donar application

But

I'm not convenient to use the application

Because

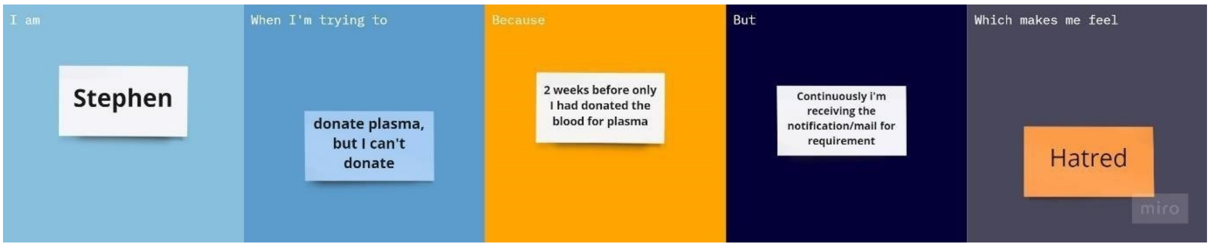
I'm expecting more specification, If more specification is add

Which makes me feel

enthusiastic

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	I am Mr. Sivagi when I'm trying to use the plasma donar application but I'm not convenient to use the application because I'm expecting more specification, if more specifications are added, which makes me feel enthusiastic.
2.	Idea / Solution description	The suggestion which are said by the user will be noted and the apt suggestions will be added
3.	Novelty / Uniqueness	Everyone will have different ideas and different queries but the most important suggestions will be added upon the application.
4.	Social Impact / Customer Satisfaction	Almost Customer will be satisfied on the problem, if once again the problem occurs, it can be easily recovered.
5.	Business Model (Revenue Model)	On the revenue bases, this donar application will be profit for Hospital, NGO's and private organizations.
6.	Scalability of the Solution	The problem of the donar was solved and also as per the user flexibility the requirements can be modified.

Proposed solution – II


I am
Stephen
When I'm trying to
donate plasma, but I can't donate
Because
2 weeks before only I had donated the blood for plasma
But
Continuously i'm receiving the notification/mail for requirement
Which makes me feel
Hatred
miro

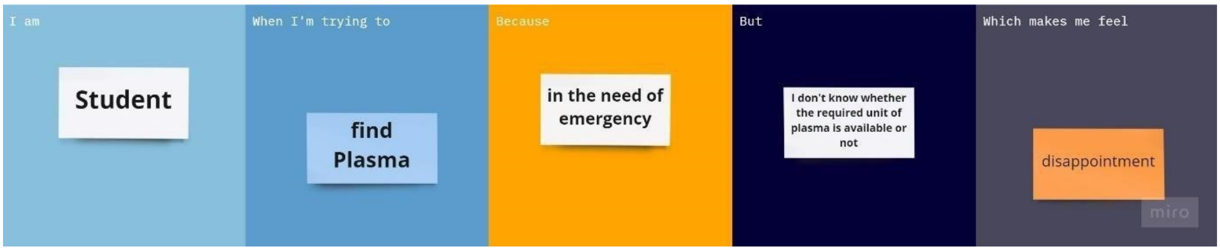
S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	I am Stephen when I'm trying to donate plasma, But I can't donate Because 2 weeks before only I had donated the blood for plasma, but continuously I'm receiving the notification/mail for requirement which makes me feel Hatred.
2.	Idea / Solution description	Stephen needs to update his plasma donation details in the Application, if Still the issue occurs use "Contact Us" option in the application
3.	Novelty / Uniqueness	This problem rarely occurs to the users/donar and not a common problem. It will be rectified from the "technical team".
4.	Social Impact / Customer Satisfaction	The Customer will be more satisfied with the solution and if once again the problem occurs, it can be easily recovered.
5.	Business Model (Revenue Model)	On the revenue bases, this donar application will be profit for Hospital, NGO's and private organizations.
6.	Scalability of the Solution	The thought of the user/donar about the application will changed and also as per the user flexibility the requirements can be modified.

Proposed solution – III

I am
Student
When I'm trying to
use Plasma Donar Application
Because
I want to use the application
But
I don't know how to use the donar application & I never used before
Which makes me feel
Anxiety
miro

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	I am a student I'm trying to use Plasma Donar Application Because I want to use the application, But I don't how to use the donar application & I never used before which makes me feel Anxiety.
2.	Idea / Solution description	The user should have basic knowledge about the application, read the user manual or else use the "Chat Bot" for the guidance to use the application efficiently.
3.	Novelty / Uniqueness	It is common problem face by the new users who are trying to use the application. If the user once learns how to use, then there will be no issue.
4.	Social Impact / Customer Satisfaction	The solution will be satisfied to the user. If any problem occurs once again it will be rectified.
5.	Business Model (Revenue Model)	On the revenue bases, this donar application will be profit for Hospital, NGO's and private organizations.
6.	Scalability of the Solution	The problem of the donar was solved and also as per the user flexibility the requirements can be modified.

Proposed solution – IV



I am

Student

When I'm trying to

find Plasma

Because

in the need of emergency

But

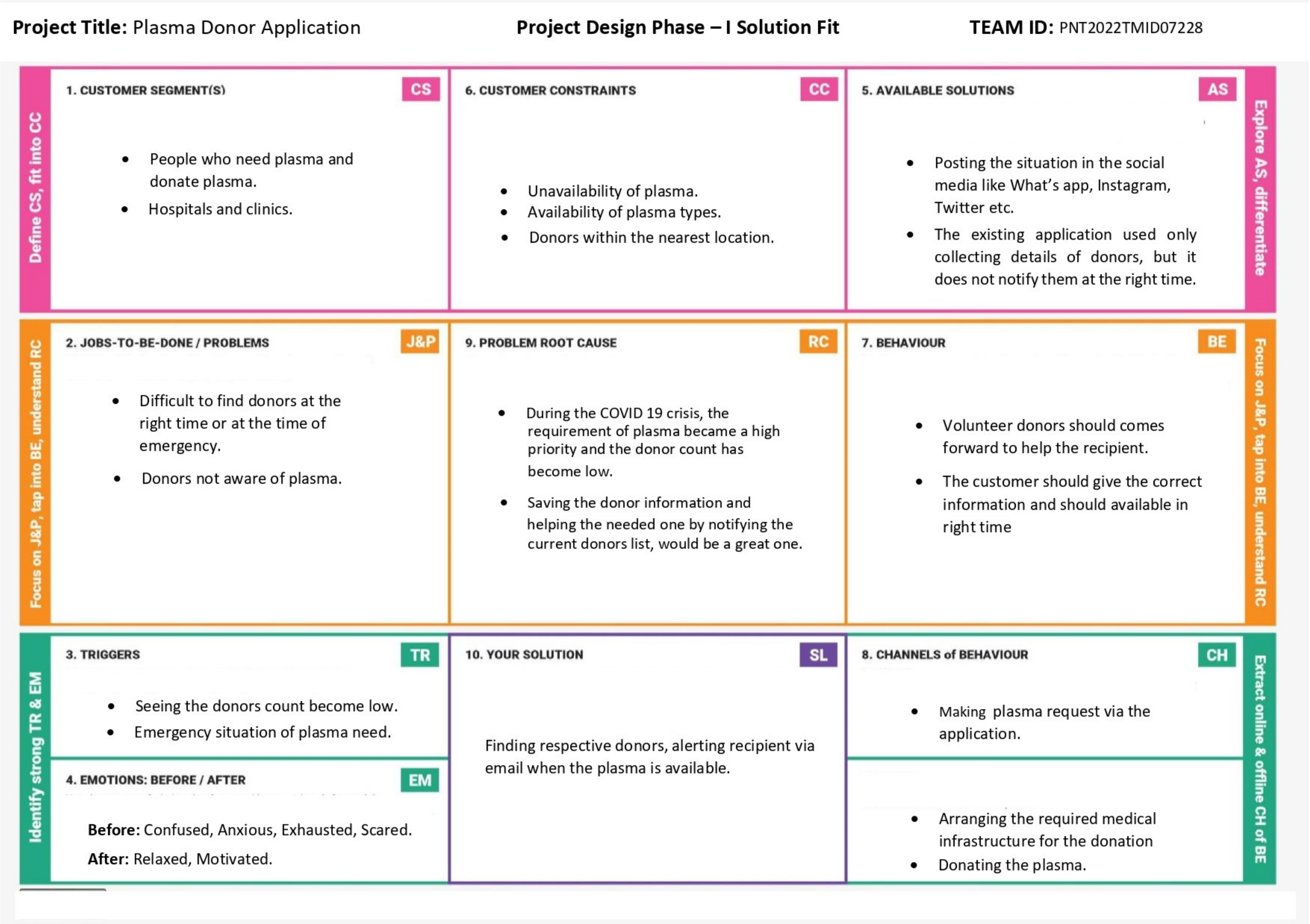
I don't know whether the required unit of plasma is available or not

Which makes me feel

disappointment

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	I am a student I'm trying to find Plasma Because in the need of emergency, But I don't whether the required unit of plasma is available or not which makes me feel disappointment.
2.	Idea / Solution description	The user should know the required unit of plasma and then check the availability of plasma in the application.
3.	Novelty / Uniqueness	It is not unique problem, these kind of problems faced by the new users or who don't know to how use the application
4.	Social Impact / Customer Satisfaction	The user will be more satisfied with the solution and there will be less chance of these kind of problem that repeat again.
5.	Business Model (Revenue Model)	On the revenue bases, this donar application will be profit for Hospital, NGO's and private organizations.
6.	Scalability of the Solution	The mindset of the user about the application will changed and also as per the user flexibility the requirements can be modified.

3.4 PROBLEM SOLUTION FIT



Project Title: Plasma Donor Application

Project Design Phase – I Solution Fit

TEAM ID: PNT2022TMID07228

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

- People who need plasma and donate plasma.
- Hospitals and clinics.

6. CUSTOMER CONSTRAINTS CC

- Unavailability of plasma.
- Availability of plasma types.
- Donors within the nearest location.

5. AVAILABLE SOLUTIONS AS

- Posting the situation in the social media like What's app, Instagram, Twitter etc.
- The existing application used only collecting details of donors, but it does not notify them at the right time.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

- Difficult to find donors at the right time or at the time of emergency.
- Donors not aware of plasma.

9. PROBLEM ROOT CAUSE RC

- During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count has become low.
- Saving the donor information and helping the needed one by notifying the current donors list, would be a great one.

7. BEHAVIOUR BE

- Volunteer donors should comes forward to help the recipient.
- The customer should give the correct information and should available in right time

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

Identify strong TR & EM

3. TRIGGERS TR

- Seeing the donors count become low.
- Emergency situation of plasma need.

4. EMOTIONS: BEFORE / AFTER EM

Before: Confused, Anxious, Exhausted, Scared.

After: Relaxed, Motivated.

10. YOUR SOLUTION SL

Finding respective donors, alerting recipient via email when the plasma is available.

8. CHANNELS of BEHAVIOUR CH

- Making plasma request via the application.

- Arranging the required medical infrastructure for the donation
- Donating the plasma.

Extract online & offline CH of BE

CHAPTER-4

REQUIREMENT ANALYSIS

4.1 FUNCTIONAL REQUIREMENT

In software engineering and systems engineering, a functional requirement defines a function of a system or its components.

Access Website:

Software operator should be capable to access web-application through either an application browser or similar service on the PC. There should not be any limitation to access web-application.

Software operator Registration:

Given that software operator has accessed web-application, then the software operator should be able to register through the web-application. The donor software operator must provide first name, gender, plasma group, location, contact, software operator name and password.

New Releases:

When a new/update/revise version of the web-application is released, the appearance will be automatically appears when the software operator access the web-application.

Software operator log-in:

Given that the software operator has registered, then the software Operator should be able to login to the web-application. The login information will be stored on the database for future use.

Search result in a list view:

Search result can be viewed in a list. Each element in the list represents a specific donor. Each element should include first name, gender, plasma group, location, contact according to the software operator position.

Request plasma:

Software operator (Clinic) should be able to request for plasma at emergency situation, software operator need to define plasma group, location, required date, contact. The plasma request requested will be sent to plasma bank and then to the Inventory to check the availability. If available, the requested plasma will be sent to the requested donor (Clinic).

View Request:

The plasma Bank should be able to view received request and then respond to them and can search requests by selecting two options select plasma group and provision.

Search plasma Bank Stock:

Receiving the blood or plasma request from Clinic, the blood or plasma stock in the Blood or plasma Bank Inventory will be searched to match the requested blood or plasma request.

View Blood or plasma request Details:

The Clinic, Blood or plasma Bank should be able to view the Blood or plasma requestId, time of the blood or plasma request placed, name of the clinic, location and the address of the clinic. In addition to this an additional feature of tracking the distribution person which includes his location and the checkpoints passed.

View Distribution Status:

The Clinic, Blood or plasma Bank should be able to view the status of the distribution time. If the distribution seems to be delayed then the clinic manager must to able to call the distribution person to get the update/revise on the distribution.

4.2 NON-FUNCTIONAL REQUIREMENTS

In systems engineering and requirements engineering, a non- functional requirement is a requirement that specifies criteria that can be used to judge the operation of a system, rather than specifies behaviors.

Maintainability:

The plasma donar application System have must have high level of Maintainability.

Serviceability

If issue arises in the plasma donar application System, then then project must be programmed in such a way that developer can service it again.

Environmental

The plasma donar application System must be working in latest operating system environments like windows 7, windows 8, windows 10 and on Linux.

Data Integrity

All the data in the plasma donar application System must be accurate and reliable.

Usability

The plasma donar application System must have a good looing user friendly interface.

Recoverability

The plasma donar application System must have a proper data backup mechanism.

Interoperability

The plasma donar application System must work with or use the parts or equipment of another system.

Capacity

The plasma donar application System must fulfill on storage requirements, today and in the future. The Blood bank Management System must be scale up for increasing volume demands.

Performance

The plasma donar application System must perform well in different scenarios.

Security

The plasma donar application System must be secured with proper user name and passwords.

Regulatory

The plasma donar application System must obey all the governmental requirements and constraints.

Availability

The plasma donar application System must be available 24 hours a day with no bandwidth issues.

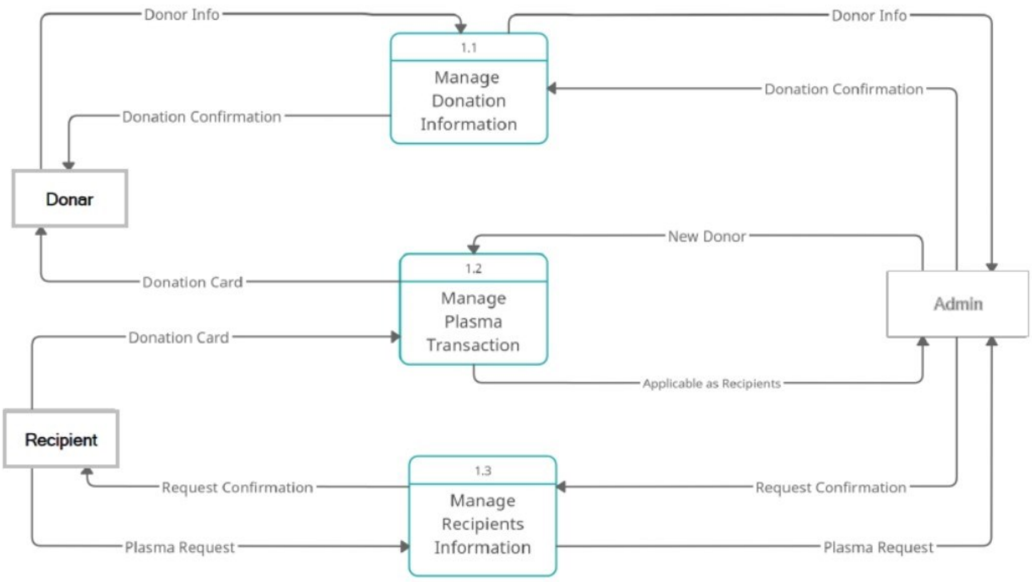
Manageability

The plasma donar application System must Alerts when the system suffers from a recoverable interruption.

CHAPTER-5

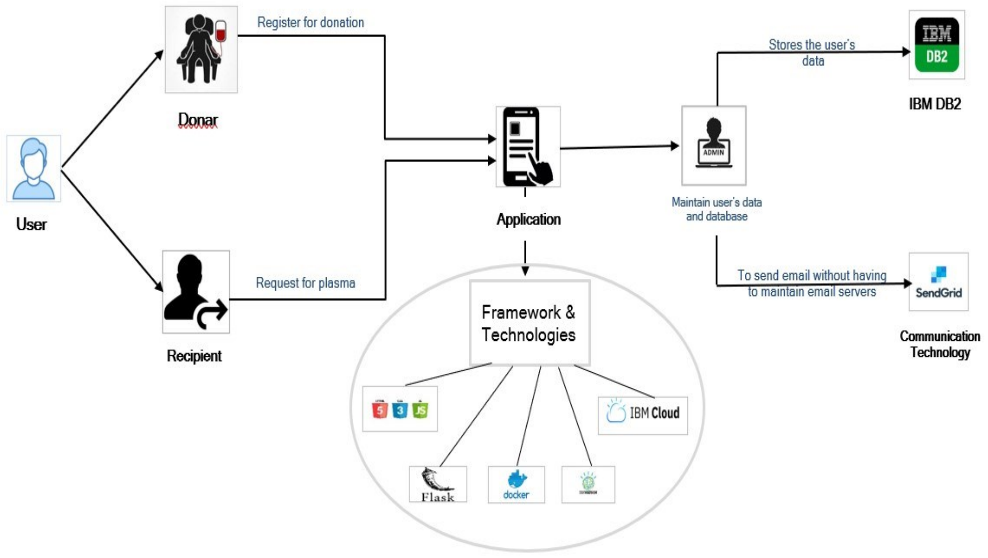
PROJECT DESIGN

5.1 DATA FLOW DIAGRAM



5.2 SOLUTION AND TECHNOLOGY ARCHITECTURE

Technical Architecture:



5.3 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

CHAPTER-6

6.1 SPRINT PLANNING AND ESTIMATION

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-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 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 – I to 4

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

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

$$AV = 20/6 = 3.34$$

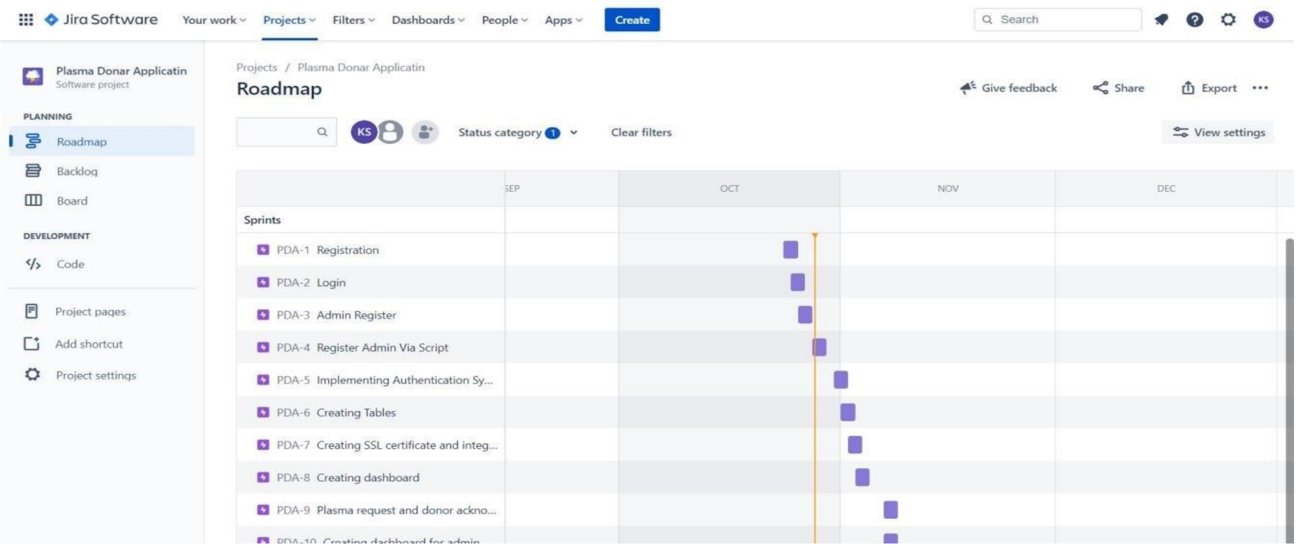
Average Velocity = 3.34

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	A User can register and create the user account	5	High	Ajithaa, Jeevitha
Sprint-1	login	USN-2	A User can sign-in to the application by entering the registered email id and password	5	High	Ajith Kumar, Raman Pradeep
Sprint-1	Admin Register	USN-3	An admin can register through the admin registry	5	High	Vignesh
Sprint-1	Register Admin Via Script	USN-4	Creating an Admin Account using a python script. As for security reasons we should implement a separate python scrip	5	High	Ajithaa, Jeevitha
Sprint-2	Implementing Authentication System	USN-5	creating an authentication system for both admin and users using flask application	6	High	Vignesh, Raman Pradeep
Sprint-2	Creating Tables	USN-6	Creating Db2 account and creating the tables in DB2 in IBM cloud db2	4	Medium	Ajithaa, Vignesh
Sprint-2	Creating SSL certificate and integrating with python code	USN-7	Creating the SSL certificate to connect db2 via python code	4	Medium	Ajith Kumar, Raman Pradeep
Sprint-2	Creating dashboard	USN-8	Admin and Donor can interact with our application.	6	High	Jeevitha, Ajith Kumar
Sprint-3	Plasma request and donor acknowledge feature	USN-9	Admin can create plasma requests which will be shown in the user portal	5	High	Vignesh
Sprint-3	Creating dashboard for admin	USN-10	Admin dashboard, admin can view the total request has been requested for plasma by the recipient/user.	5	High	Jeevitha, Ajithaa
Sprint-3	Integrating the Watson chat bot	USN-11	Users can use the chatbot for basic clarification using the chatbot	5	High	Ajith Kumar, Raman Pradeep
Sprint-3	Integration with SendGrid	USN-12	The source/verification mail for both user(donor and recipient)	5	High	Vignesh, Jeevitha
Sprint-4	Docker installation	USN-13	Installing Docker CLI	6	Medium	Ajithaa, Vignesh
Sprint-4	Creating docker image	USN-14	Setting up the docker environment and creating the docker image file	6	High	Ajith Kumar, Raman Pradeep
Sprint-4	Kubernetes	USN-15	creating pods in Kubernetes and uploading it in IBM cloud	4	Medium	Ajithaa, Jeevitha
Sprint-4	End-to-End Testing	USN-16	Implementing End-to-End testing	4	Medium	Raman Pradeep, Vignesh

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Initial creation process	USN-1	Create template, Static and python flask app	20	High	Vignesh Ajithaa Ajith Kumar Jeevitha Raman Pradeep
Sprint-2	Cloud and database	USN-2	Connecting the python flask app with database, object storage created in Cloud and implementation of chatbot	20	High	Vignesh Ajithaa Ajith Kumar Jeevitha Raman Pradeep
Sprint-3	Deployment in DevOps, Mailing	USN-3	Develop the project, create it as image with docker, containerize in container registry and deploy in Kubernetes, Add the mailing service	20	High	Vignesh Ajithaa Ajith Kumar Jeevitha Raman Pradeep
Sprint-4	Testing, Deployment and user experience	USN-4	To do all the testing and to make sure the use of the software handy to user.	20	High	Vignesh Ajithaa Ajith Kumar Jeevitha Raman Pradeep

6.3 REPORT FROM JIRA



Sprints

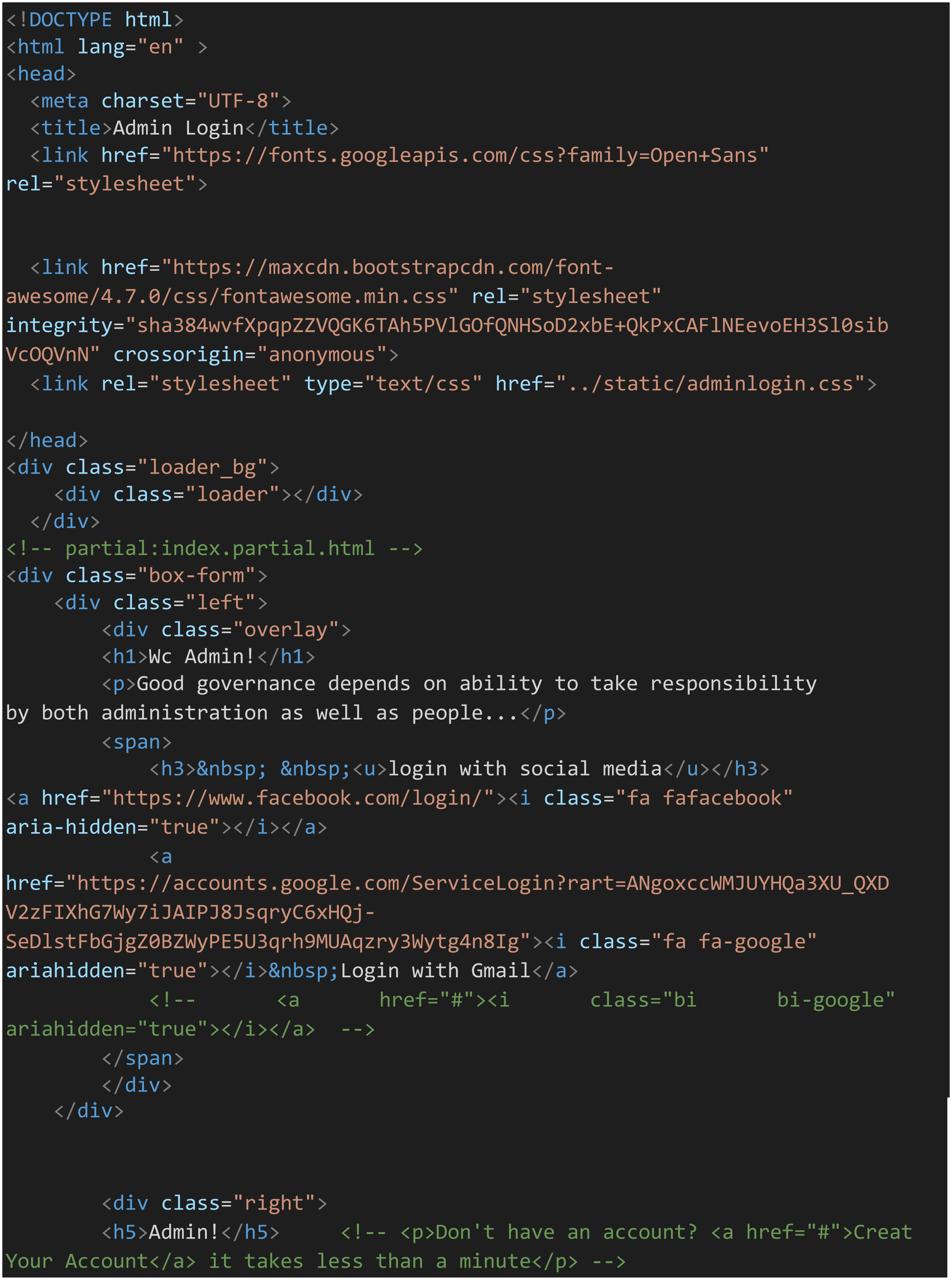
- PDA-1 Registration
- PDA-2 Login
- PDA-3 Admin Register
- PDA-4 Register Admin Via Script
- PDA-5 Implementing Authentication Sy...
- PDA-6 Creating Tables
- PDA-7 Creating SSL certificate and integ...
- PDA-8 Creating dashboard
- PDA-9 Plasma request and donor ackno...
- PDA-10 Creating dashboard for admin

CHAPTER-7

CODING AND SOLUTIONING

7.1 FEATURE CODE

Admin Login:



```html
<!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+QkPxCAFlNEevoEH3Sl0sib
VcOQVnN" 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>&nbsp; &nbsp;<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_QXD
V2zFIXhG7Wy7iJAIPJ8JsqryC6xHQj-
SeDlstFbGjgZ0BZWyPE5U3qrh9MUAqzry3Wytg4n8Ig"><i class="fa fa-google"
ariahidden="true"></i>&nbsp;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> -->
```

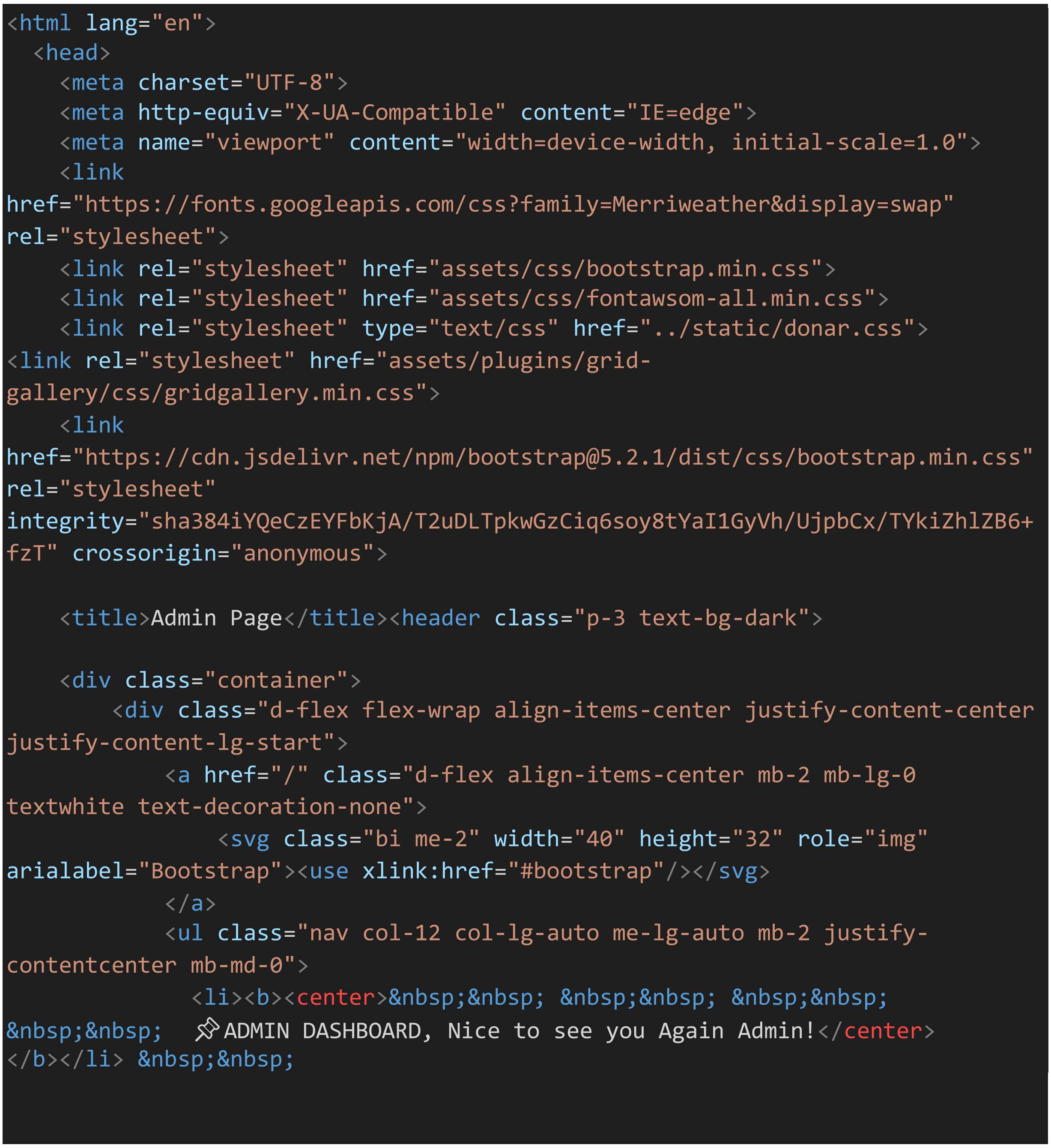
```
        <div class="inputs">
            <input type="text" placeholder="user id">
            <br>
            <input type="password" placeholder="password">
        </div>

            <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.cs
s ">
<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"></scr
i pt>
<script>
setTimeout(function(){
      $('.loader_bg').fadeToggle();
  }, 1600);
</script>

</body>
</html>
```

Admin Dashboard:

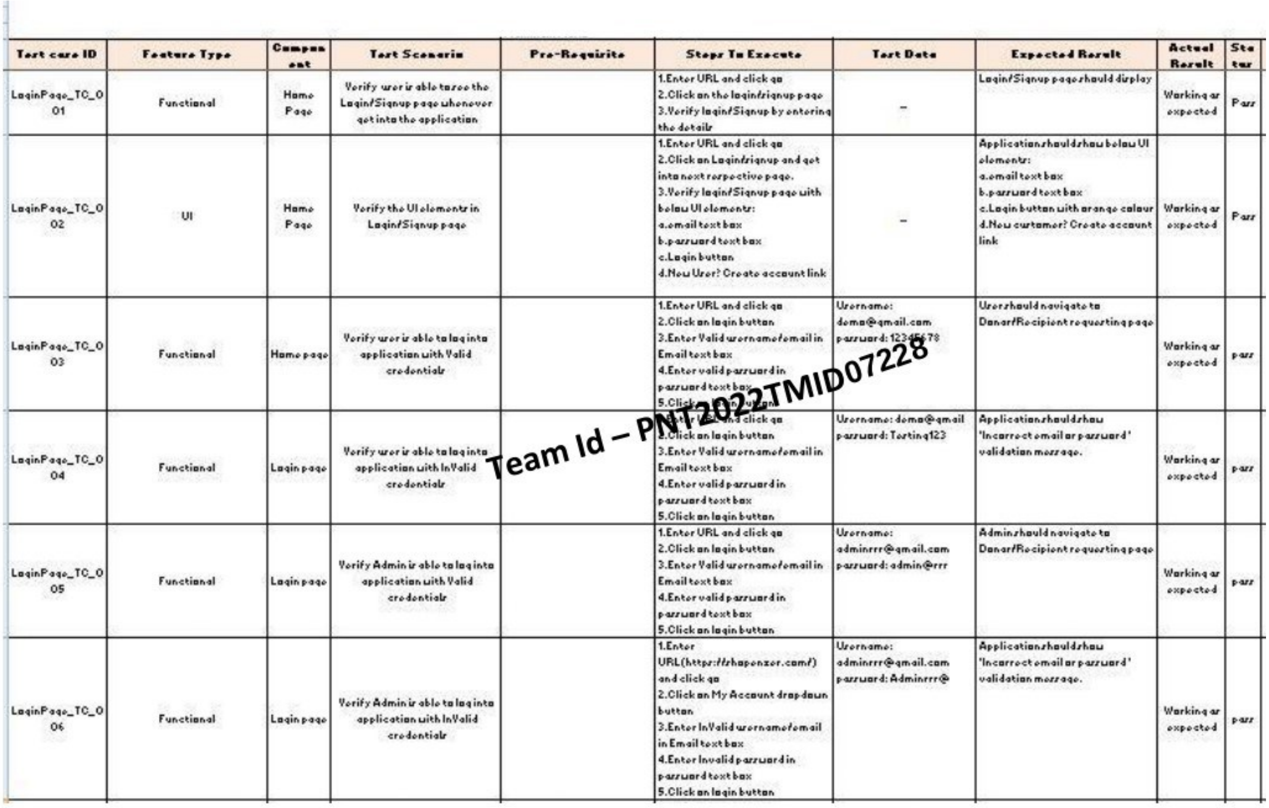


```html
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link
href="https://fonts.googleapis.com/css?family=Merriweather&display=swap"
rel="stylesheet">
    <link 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>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>&nbsp;&nbsp; &nbsp;&nbsp; &nbsp;&nbsp;
&nbsp;&nbsp;   📌ADMIN DASHBOARD, Nice to see you Again Admin!</center>
</b></li> &nbsp;&nbsp;
```

CHAPTER-8

TESTING

8.1 TEST CASE



Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	Expected Result	Actual Result	Status
LoginPage_TC_O01	Functional	Home Page	Verify user is able to see the Login/Signup page whenever get into the application		1.Enter URL and click go 2.Click on the login/signup page 3.Verify login/Signup by entering the details	-	Login/Signup page should display	Working as expected	Pass
LoginPage_TC_O02	UI	Home Page	Verify the UI elements in Login/Signup page		1.Enter URL and click go 2.Click on Login/signup and get into next respective page. 3.Verify login/Signup page with below UI elements: a.email text box b.password text box c.Login button d.New User? Create account link	-	Application should show below UI elements: a.email text box b.password text box c.Login button with orange colour d.New customer? Create account link	Working as expected	Pass
LoginPage_TC_O03	Functional	Home page	Verify user is able to log into application with Valid credentials		1.Enter URL and click go 2.Click on login button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: doma@gmail.com password: 12345678	User should navigate to Donor/Recipient requesting page	Working as expected	pass
LoginPage_TC_O04	Functional	Login page	Verify user is able to log into application with InValid credentials		1.Enter URL and click go 2.Click on login button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: doma@gmail password: Testing123	Application should show 'Incorrect email or password' validation message.	Working as expected	pass
LoginPage_TC_O05	Functional	Login page	Verify Admin is able to log into application with Valid credentials		1.Enter URL and click go 2.Click on login button 3.Enter Valid username/email in Email text box 4.Enter valid password in password text box 5.Click on login button	Username: adminsss@gmail.com password: admin@sss	Admin should navigate to Donor/Recipient requesting page	Working as expected	pass
LoginPage_TC_O06	Functional	Login page	Verify Admin is able to log into application with InValid credentials		1.Enter URL(https://shopenzer.com/) and click go 2.Click on My Account drop down button 3.Enter InValid username/email in Email text box 4.Enter Invalid password in password text box 5.Click on login button	Username: adminsss@gmail.com password: Adminsss@	Application should show 'Incorrect email or password' validation message.	Working as expected	pass

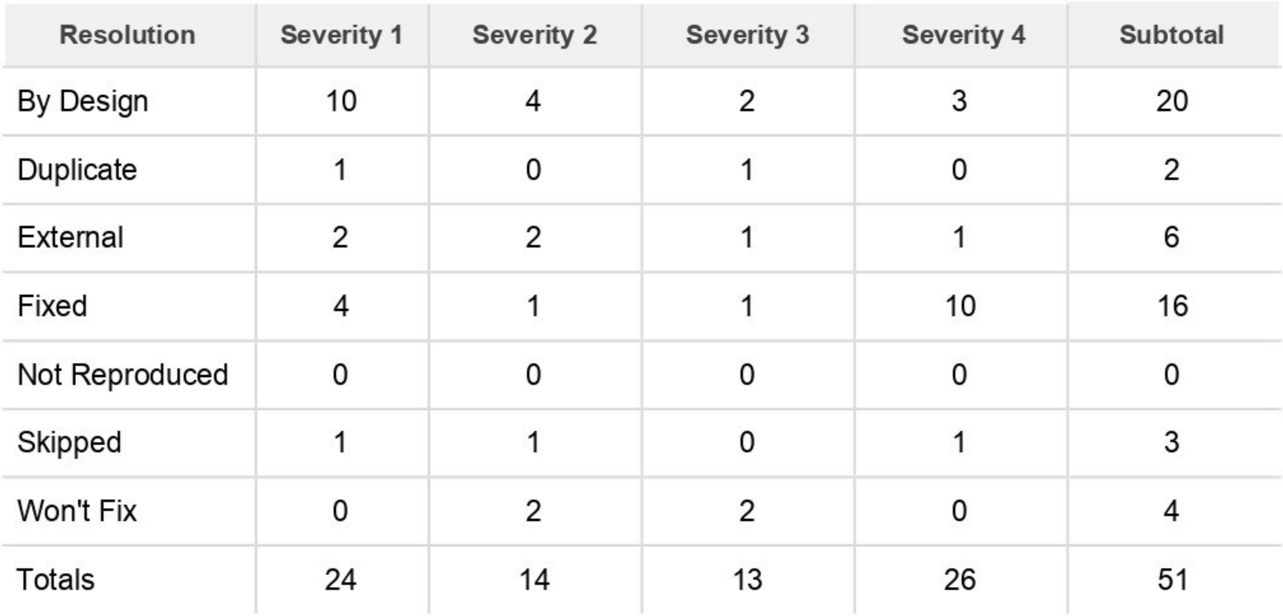
8.2 USER ACCEPTANCE TEST

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

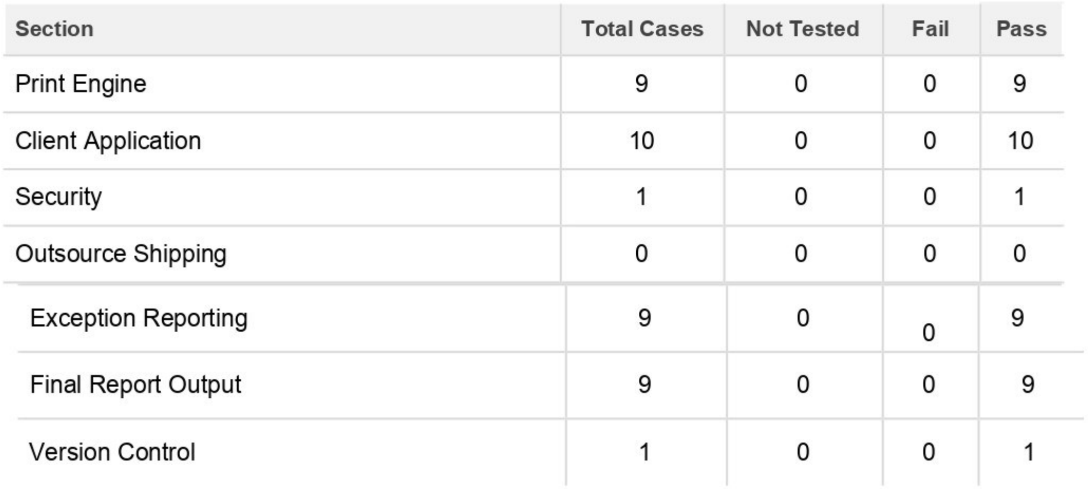
This report shows the number of resolved or closed bugs at each severity level, and how they were resolved



Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	3	20
Duplicate	1	0	1	0	2
External	2	2	1	1	6
Fixed	4	1	1	10	16
Not Reproduced	0	0	0	0	0
Skipped	1	1	0	1	3
Won't Fix	0	2	2	0	4
Totals	24	14	13	26	51

3. Test Case Analysis

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



Section	Total Cases	Not Tested	Fail	Pass
Print Engine	9	0	0	9
Client Application	10	0	0	10
Security	1	0	0	1
Outsource Shipping	0	0	0	0
Exception Reporting	9	0	0	9
Final Report Output	9	0	0	9
Version Control	1	0	0	1

CHAPTER-9

RESULT

9.1 PERFORMANCE METRICS

- **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 maintaining 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.

CHAPTER – 10

ADVANTAGES AND 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.

CHAPTER-11

CONCLUSION

The efficient way of finding plasma donor for the infected people is implemented using the plasma donor website that is hosted on Aws platform. To ensure the smooth functioning of the website operations.

I have hosted the website in AWS platform to make sure the operations are running successfully AWS lambda function is used and to deploy the application AWS EC2 service is used.

CHAPTER-12

FURTURE SCOPE

Upgrading the UI that is more user-friendly which will help many users to access the website and also ensures that many plasma donors can be added into the community.

Using elastic load balancer, it helps to handle multiple requests at the same time which will maintain the uptime of the website with negligible downtime.

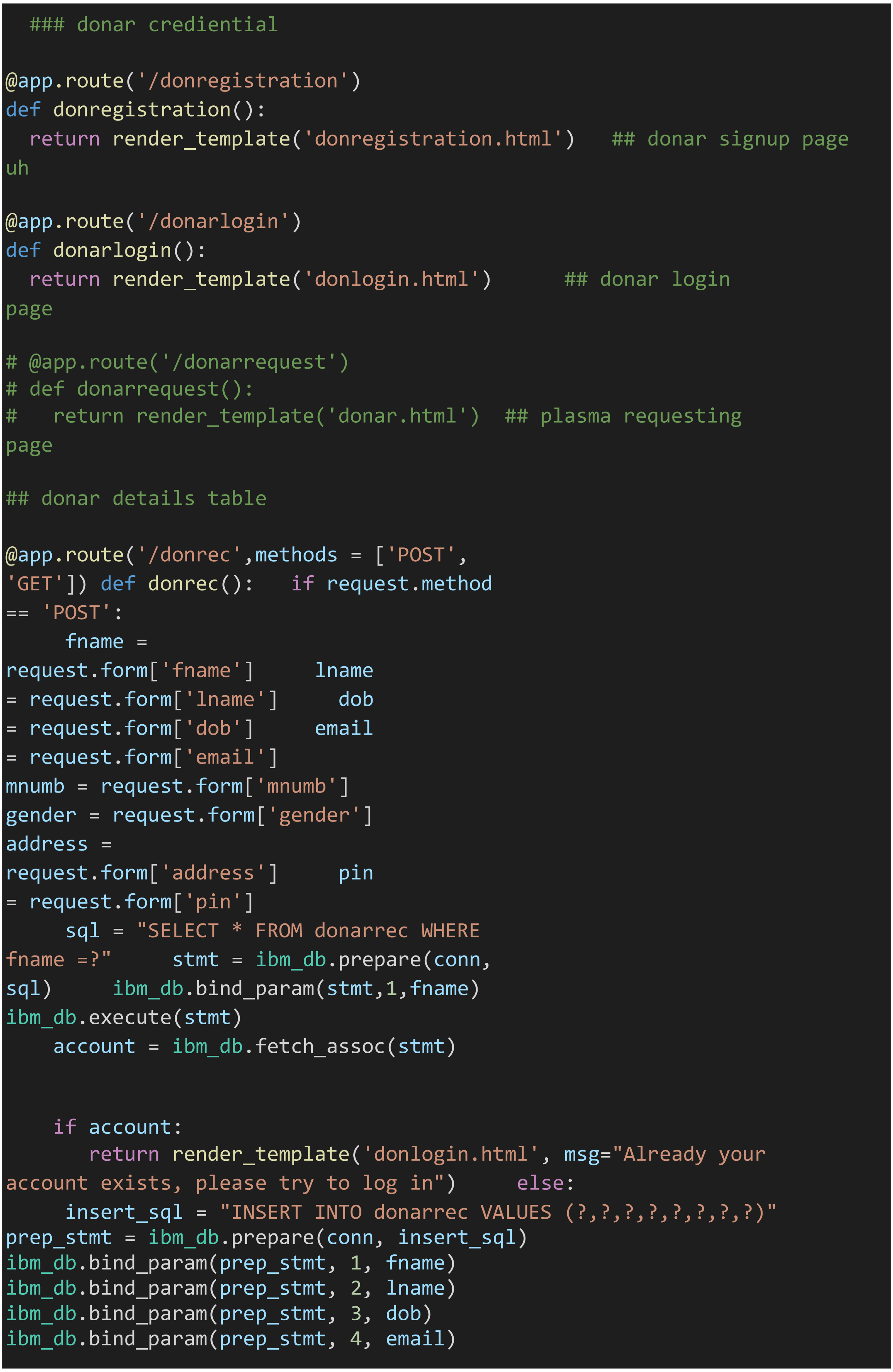
CHAPTER-13

APPENDIX

SOURCE CODE:

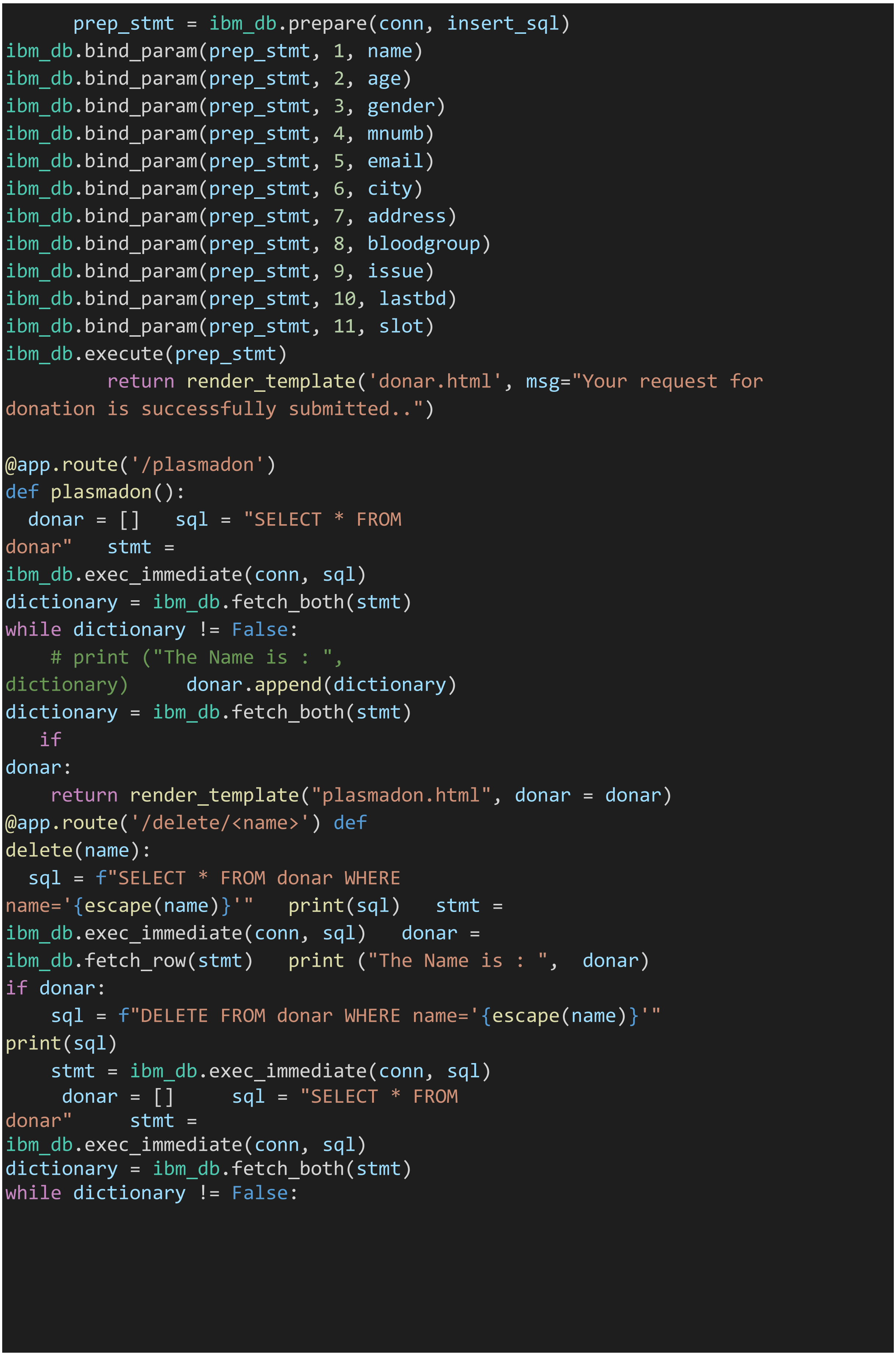
App.py

```
from flask import Flask,render_template,request,url_for,redirect from
markupsafe import escape
 import ibm_db conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-
4859-
88f0a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SEC
URIT
Y=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=blk20068;PWD=LsEEBW71f
9uXFNsf",'','')


app = Flask(__name__)

@app.route('/') def
index():
    return render_template('index.html')       # index - home page
# admin credentials

@app.route('/adminlogin') def
adminlogin():
  return render_template('adminlogin.html')   # admin log in page
@app.route('/adminreg') def
adminreg():
  return render_template('adminreg.html')  # admin sign up page

@app.route('/recipregistration') def
recipregistration():
  return  render_template('recipregistration.html')    ##  recipient  signup
page uh

@app.route('/recipientlogin')
def recipientlogin():
  return render_template('reclogin.html')      ## recipt login
page

@app.route('/recipientrec',methods = ['POST',
'GET']) def recipientrec():   if request.method
== 'POST':
     fname =
request.form['fname']     lname
= request.form['lname']     dob
= request.form['dob']     email
= request.form['email']
mnumb = request.form['mnumb']
gender = request.form['gender']
address =
request.form['address']     pin
= request.form['pin']
     sql = "SELECT * FROM recipientrec WHERE
fname =?"     stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,fname)
ibm_db.execute(stmt)     account =
ibm_db.fetch_assoc(stmt)


    if account:
       return render_template('reclogin.html', msg="Already your
account exists, please try to log in")     else:
     insert_sql = "INSERT INTO recipientrec VALUES
(?,?,?,?,?,?,?,?)"      prep_stmt = ibm_db.prepare(conn,
insert_sql)      ibm_db.bind_param(prep_stmt, 1, fname)
ibm_db.bind_param(prep_stmt, 2, lname)
ibm_db.bind_param(prep_stmt, 3, dob)
ibm_db.bind_param(prep_stmt, 4, email)
ibm_db.bind_param(prep_stmt, 5, mnumb)
ibm_db.bind_param(prep_stmt, 6, gender)
ibm_db.bind_param(prep_stmt, 7, address)
ibm_db.bind_param(prep_stmt, 8, pin)
ibm_db.execute(prep_stmt)
       return render_template('reclogin.html', msg="Account has
been created successfully..")
   return
"success..."
```

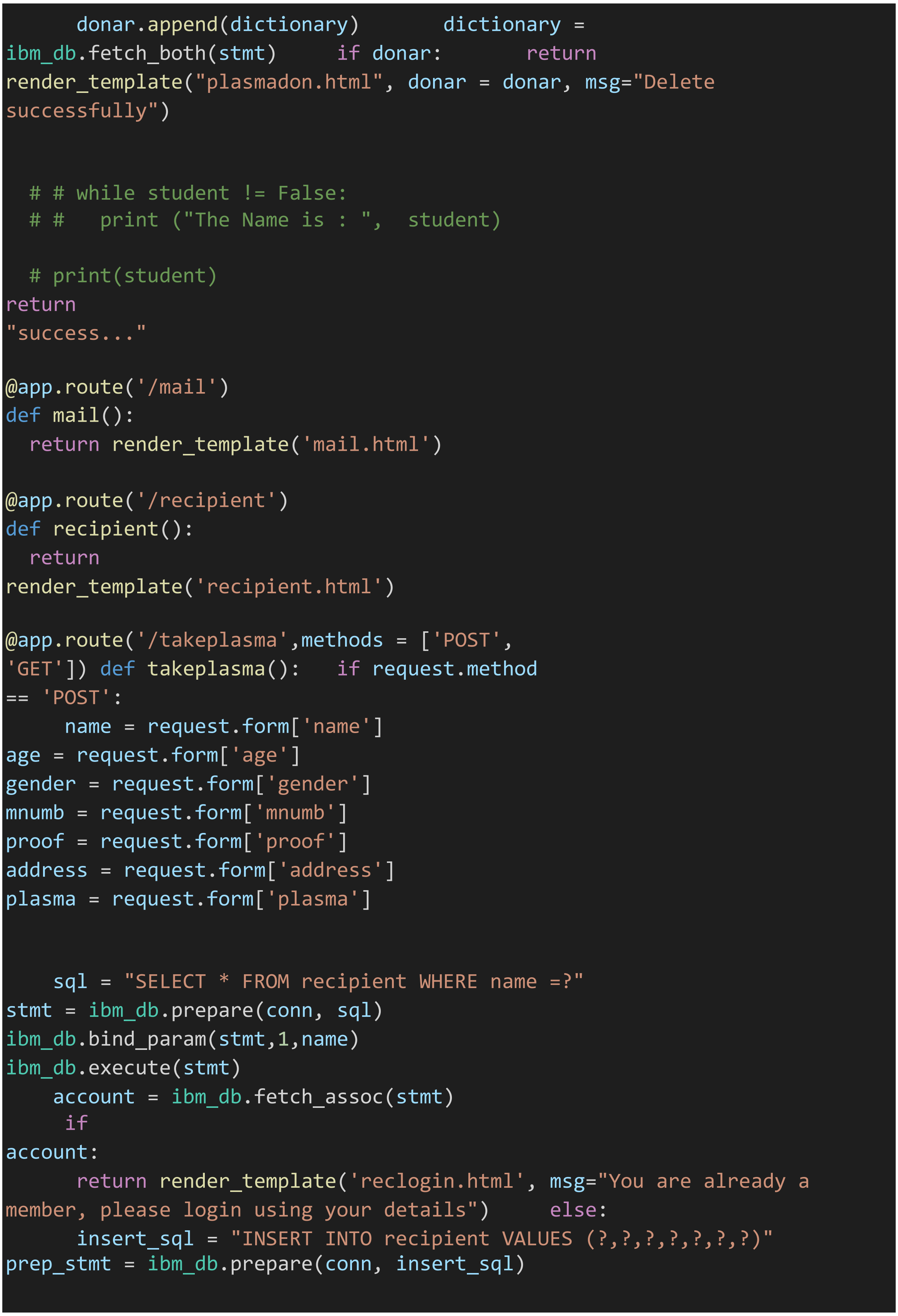


```
  ### donar crediential

@app.route('/donregistration')
def donregistration():
  return render_template('donregistration.html')   ## donar signup page
uh

@app.route('/donarlogin')
def donarlogin():
  return render_template('donlogin.html')      ## donar login
page

# @app.route('/donarrequest')
# def donarrequest():
#   return render_template('donar.html')  ## plasma requesting
page

## donar details table

@app.route('/donrec',methods = ['POST',
'GET']) def donrec():   if request.method
== 'POST':
     fname =
request.form['fname']     lname
= request.form['lname']     dob
= request.form['dob']     email
= request.form['email']
mnumb = request.form['mnumb']
gender = request.form['gender']
address =
request.form['address']     pin
= request.form['pin']
     sql = "SELECT * FROM donarrec WHERE
fname =?"     stmt = ibm_db.prepare(conn,
sql)     ibm_db.bind_param(stmt,1,fname)
ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)


    if account:
       return render_template('donlogin.html', msg="Already your
account exists, please try to log in")     else:
     insert_sql = "INSERT INTO donarrec VALUES (?,?,?,?,?,?,?,?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, fname)
ibm_db.bind_param(prep_stmt, 2, lname)
ibm_db.bind_param(prep_stmt, 3, dob)
ibm_db.bind_param(prep_stmt, 4, email)
```

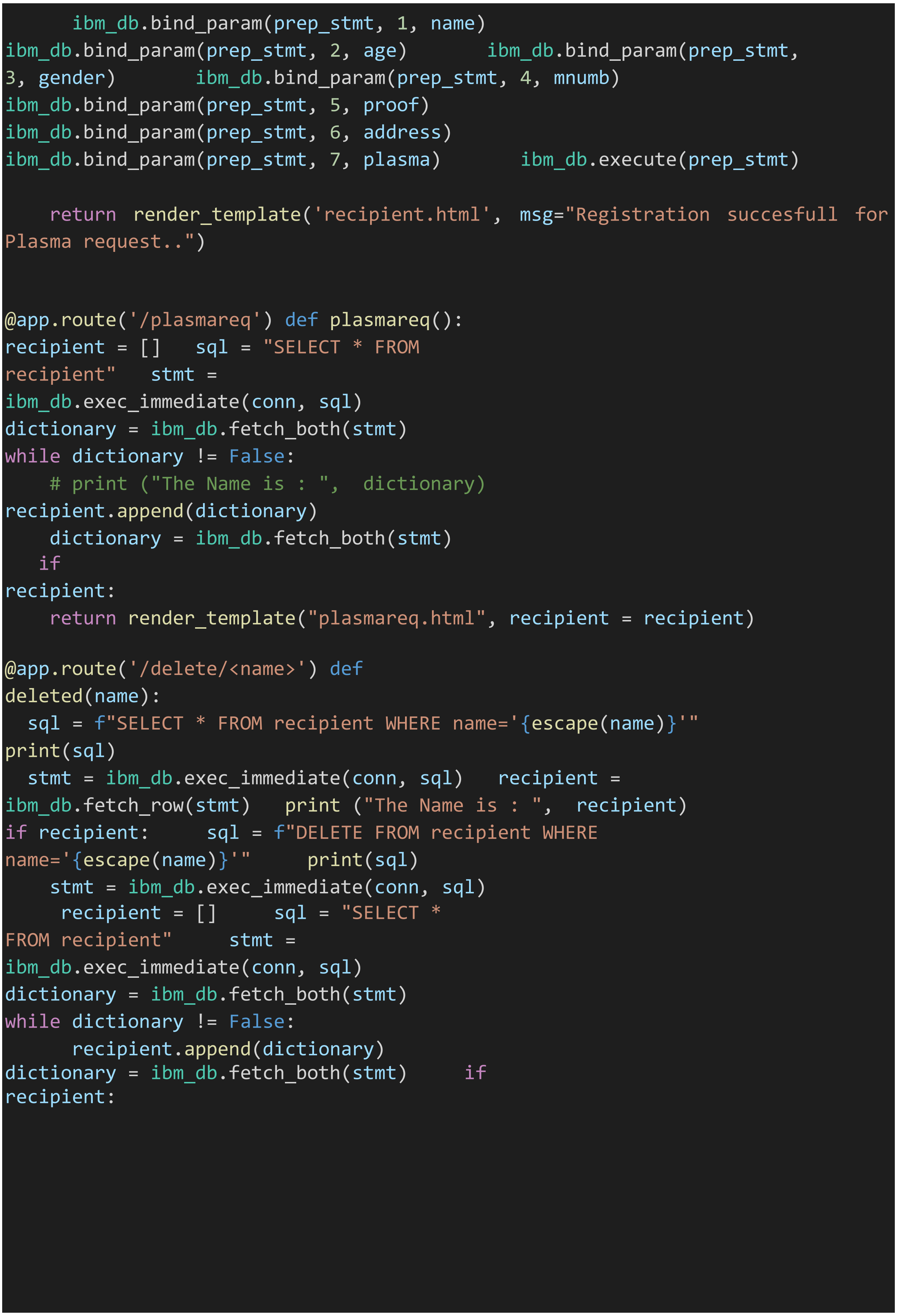
```
     ibm_db.bind_param(prep_stmt, 5, mnumb)
ibm_db.bind_param(prep_stmt, 6, gender)
ibm_db.bind_param(prep_stmt, 7, address)
ibm_db.bind_param(prep_stmt, 8, pin)
ibm_db.execute(prep_stmt)
       return render_template('donlogin.html', msg="Account has been
created successfully..")
   return
"success..."

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

## donar registering for donation
@app.route('/giveplasma',methods = ['POST',
'GET']) def giveplasma():   if request.method ==
'POST':
     name = request.form['name']     age =
request.form['age']     gender =
request.form['gender']     mnumb =
request.form['mnumb']     email =
request.form['email']     city =
request.form['city']     address =
request.form['address']     bloodgroup =
request.form['bloodgroup']     issue =
request.form['issue']     lastbd =
request.form['lastbd']     slot =
request.form['slot']

    sql = "SELECT * FROM donar WHERE name =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,name)
ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
     if
account:
      return render_template('donlogin.html', msg="Your request for
donation is successfully submitted..")     else:
      insert_sql = "INSERT INTO donar VALUES (?,?,?,?,?,?,?,?,?,?,?,?)"
```



```
      prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, name)
ibm_db.bind_param(prep_stmt, 2, age)
ibm_db.bind_param(prep_stmt, 3, gender)
ibm_db.bind_param(prep_stmt, 4, mnumb)
ibm_db.bind_param(prep_stmt, 5, email)
ibm_db.bind_param(prep_stmt, 6, city)
ibm_db.bind_param(prep_stmt, 7, address)
ibm_db.bind_param(prep_stmt, 8, bloodgroup)
ibm_db.bind_param(prep_stmt, 9, issue)
ibm_db.bind_param(prep_stmt, 10, lastbd)
ibm_db.bind_param(prep_stmt, 11, slot)
ibm_db.execute(prep_stmt)
         return render_template('donar.html', msg="Your request for
donation is successfully submitted..")

@app.route('/plasmadon')
def plasmadon():
  donar = []   sql = "SELECT * FROM
donar"   stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
    # print ("The Name is : ",
dictionary)      donar.append(dictionary)
dictionary = ibm_db.fetch_both(stmt)
   if
donar:
    return render_template("plasmadon.html", donar = donar)
@app.route('/delete/<name>') def
delete(name):
  sql = f"SELECT * FROM donar WHERE
name='{escape(name)}'"   print(sql)   stmt =
ibm_db.exec_immediate(conn, sql)   donar =
ibm_db.fetch_row(stmt)   print ("The Name is : ",  donar)
if donar:
    sql = f"DELETE FROM donar WHERE name='{escape(name)}'"
print(sql)
    stmt = ibm_db.exec_immediate(conn, sql)
     donar = []     sql = "SELECT * FROM
donar"     stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
```



```
      donar.append(dictionary)       dictionary =
ibm_db.fetch_both(stmt)      if donar:        return
render_template("plasmadon.html", donar = donar, msg="Delete
successfully")


  # # while student != False:
  # #   print ("The Name is : ",  student)

  # print(student)
return
"success..."

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

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

@app.route('/takeplasma',methods = ['POST',
'GET']) def takeplasma():   if request.method
== 'POST':
     name = request.form['name']
age = request.form['age']
gender = request.form['gender']
mnumb = request.form['mnumb']
proof = request.form['proof']
address = request.form['address']
plasma = request.form['plasma']


    sql = "SELECT * FROM recipient WHERE name =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,name)
ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
     if
account:
      return render_template('reclogin.html', msg="You are already a
member, please login using your details")     else:
      insert_sql = "INSERT INTO recipient VALUES (?,?,?,?,?,?,?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
```

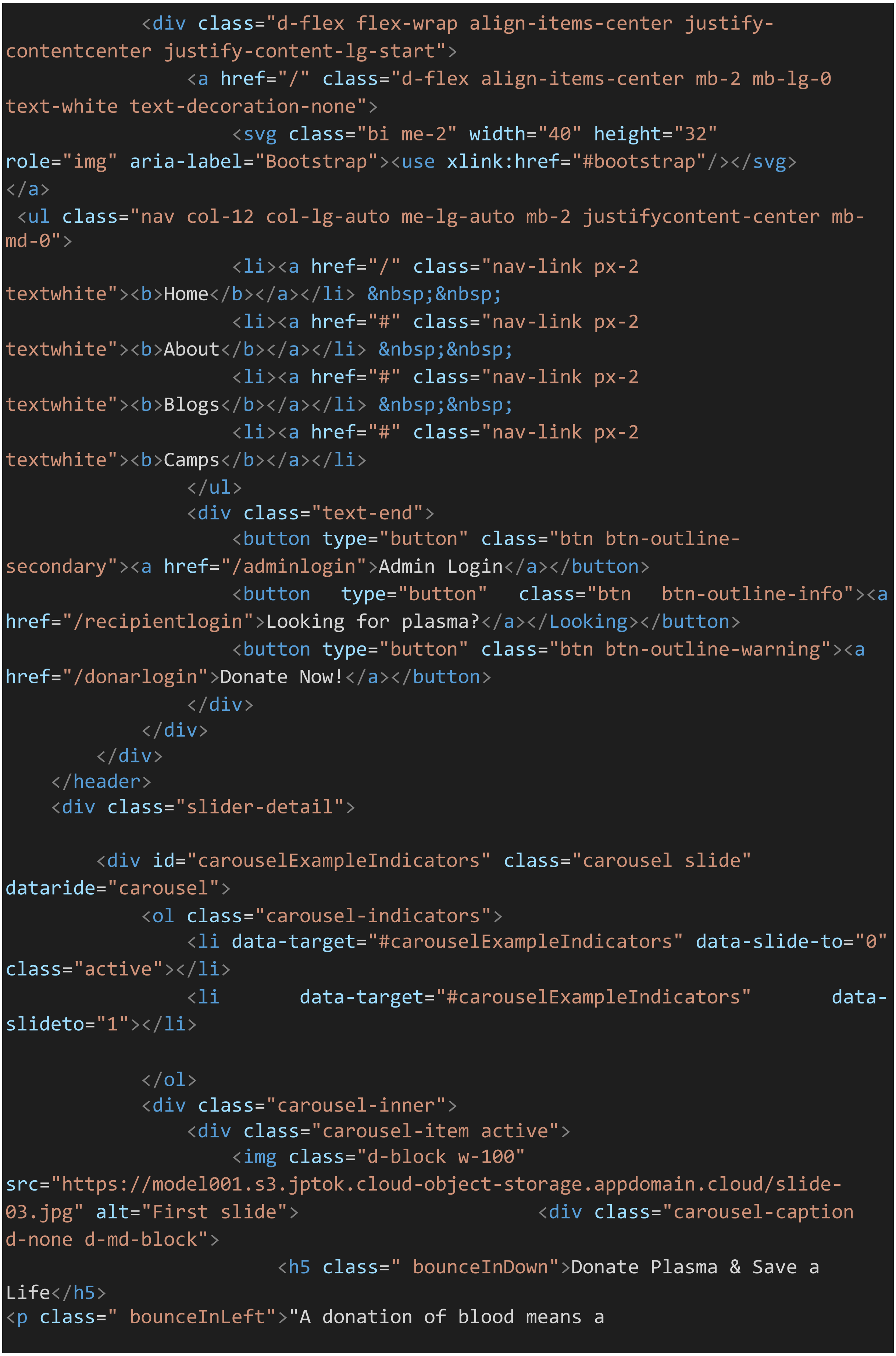


```
      ibm_db.bind_param(prep_stmt, 1, name)
ibm_db.bind_param(prep_stmt, 2, age)       ibm_db.bind_param(prep_stmt,
3, gender)       ibm_db.bind_param(prep_stmt, 4, mnumb)
ibm_db.bind_param(prep_stmt, 5, proof)
ibm_db.bind_param(prep_stmt, 6, address)
ibm_db.bind_param(prep_stmt, 7, plasma)       ibm_db.execute(prep_stmt)

    return  render_template('recipient.html',  msg="Registration  succesfull  for
Plasma request..")


@app.route('/plasmareq') def plasmareq():
recipient = []   sql = "SELECT * FROM
recipient"   stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
    # print ("The Name is : ",  dictionary)
recipient.append(dictionary)
    dictionary = ibm_db.fetch_both(stmt)
   if
recipient:
    return render_template("plasmareq.html", recipient = recipient)

@app.route('/delete/<name>') def
deleted(name):
  sql = f"SELECT * FROM recipient WHERE name='{escape(name)}'"
print(sql)
  stmt = ibm_db.exec_immediate(conn, sql)   recipient =
ibm_db.fetch_row(stmt)   print ("The Name is : ",  recipient)
if recipient:     sql = f"DELETE FROM recipient WHERE
name='{escape(name)}'"     print(sql)
    stmt = ibm_db.exec_immediate(conn, sql)
     recipient = []     sql = "SELECT *
FROM recipient"     stmt =
ibm_db.exec_immediate(conn, sql)
dictionary = ibm_db.fetch_both(stmt)
while dictionary != False:
      recipient.append(dictionary)
dictionary = ibm_db.fetch_both(stmt)     if
recipient:
      return render_template("plasmareq.html", recipient = recipient,
msg="Delete successfully")
     return "Deleted Successfully"


if __name__ == "__main__":
    app.run(port=5000, host="0.0.0.0", debug=True)
```

TEMPLATES

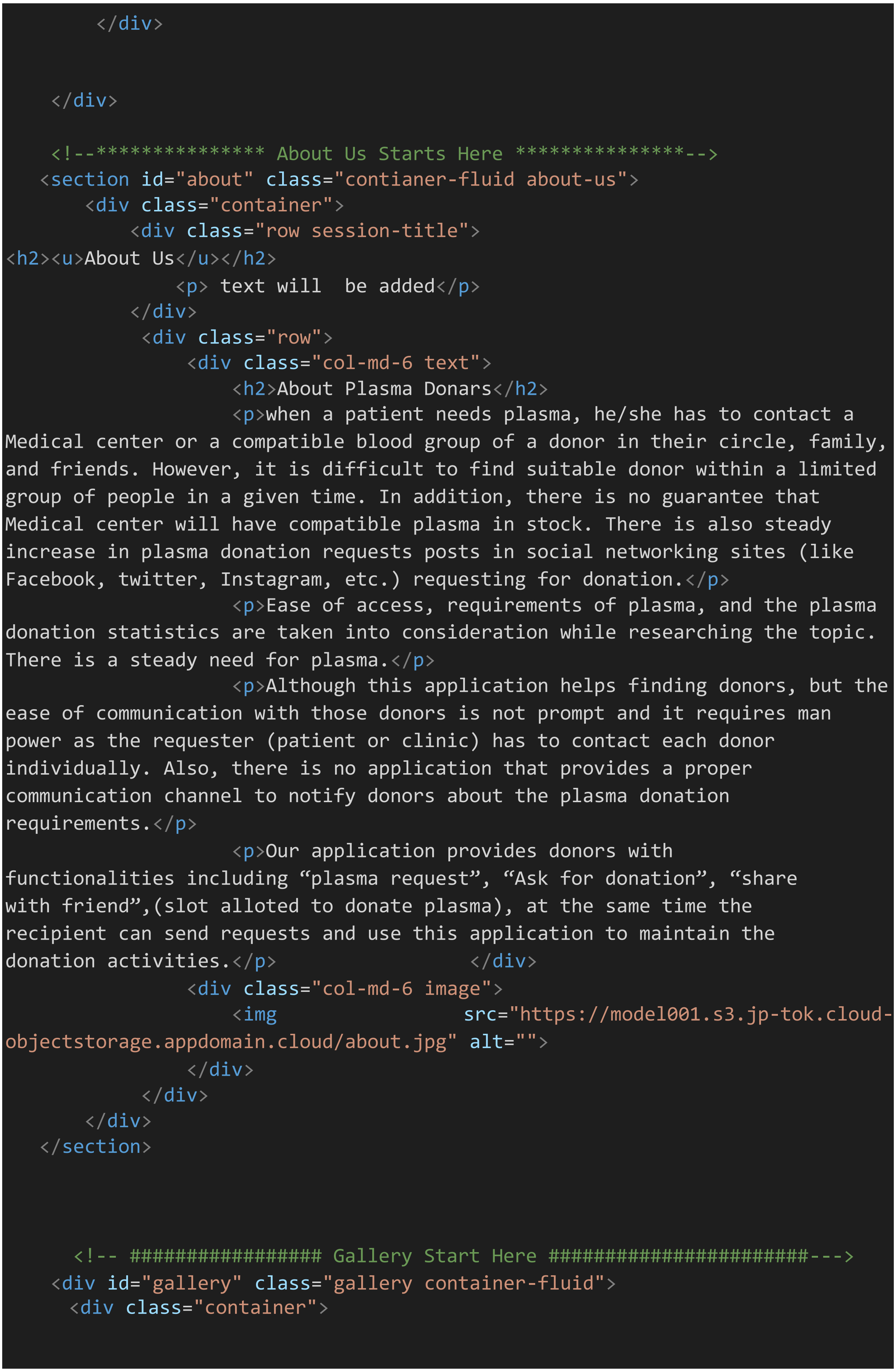
Index.html

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- CSS only -->
    <link
href="https://fonts.googleapis.com/css?family=Merriweather&display=swap"
rel="stylesheet">
    <link rel="shortcut icon" href="assets/images/fav.jpg">
    <link rel="stylesheet" href="../static/bootstrap.min.css">
    <link rel="stylesheet" href="../static/fontawsom-all.min.css">
    <link rel="stylesheet" href="../static/grid-gallery.min.css">
    <link rel="stylesheet" href="../static/grid-gallery.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">
    <link rel="stylesheet" type="text/css" href="../static/style.css" />
    <title>Home page</title>

</head>

<body>
    <div class="loader_bg">
        <div class="loader"></div>
      </div>



    <header class="p-3 text-bg-dark">
        <div class="container">
```



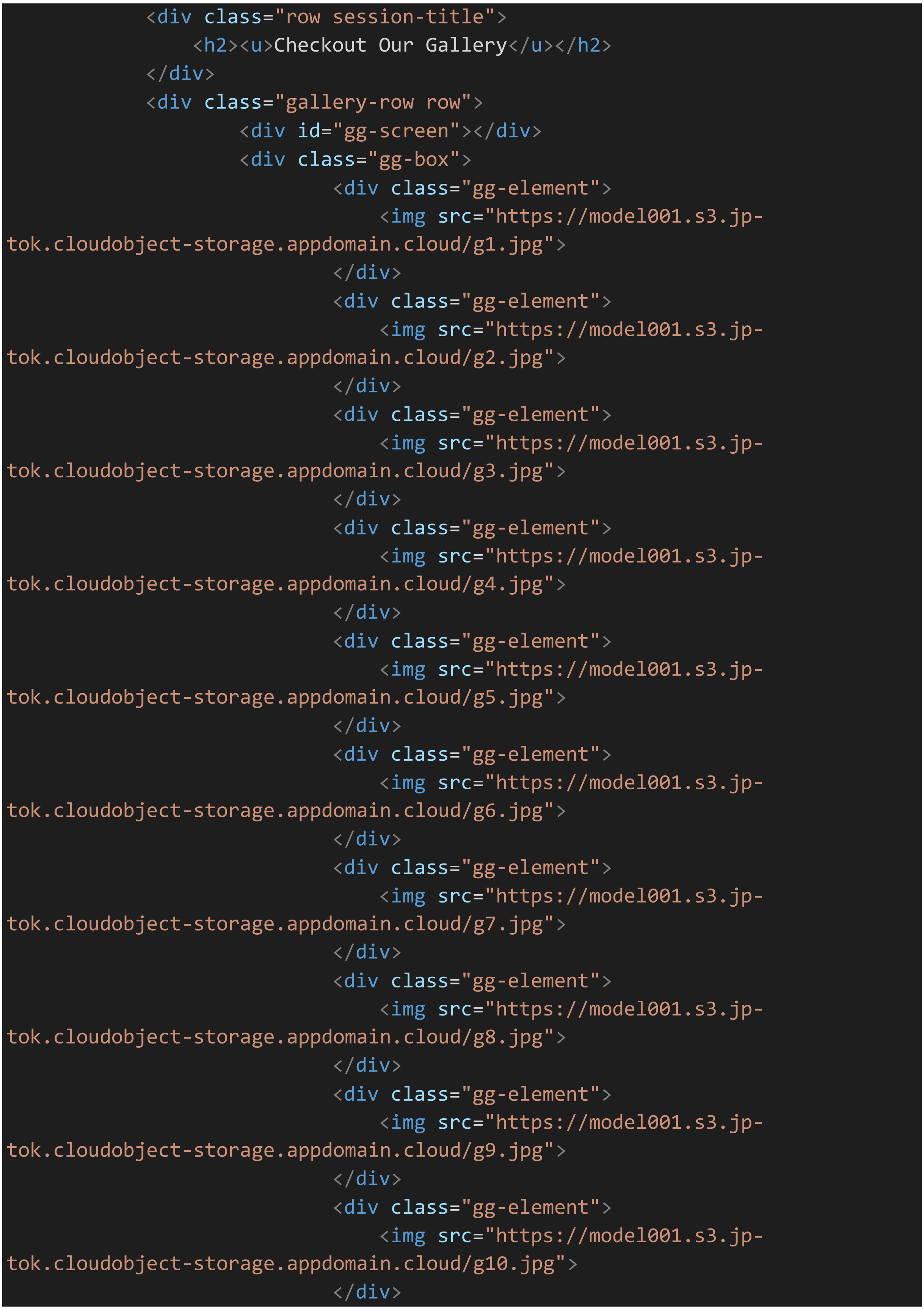
```
            <div class="d-flex flex-wrap align-items-center justify-
contentcenter justify-content-lg-start">
                <a href="/" class="d-flex align-items-center mb-2 mb-lg-0
text-white text-decoration-none">
                    <svg class="bi me-2" width="40" height="32"
role="img" aria-label="Bootstrap"><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> &nbsp;&nbsp;
                    <li><a href="#" class="nav-link px-2
textwhite"><b>About</b></a></li> &nbsp;&nbsp;
                    <li><a href="#" class="nav-link px-2
textwhite"><b>Blogs</b></a></li> &nbsp;&nbsp;
                    <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></Looking></button>
                    <button type="button" class="btn btn-outline-warning"><a
href="/donarlogin">Donate Now!</a></button>
                </div>
            </div>
        </div>
    </header>
    <div class="slider-detail">

        <div id="carouselExampleIndicators" class="carousel slide"
dataride="carousel">
            <ol class="carousel-indicators">
                <li data-target="#carouselExampleIndicators" data-slide-to="0"
class="active"></li>
                <li       data-target="#carouselExampleIndicators"       data-
slideto="1"></li>

            </ol>
            <div class="carousel-inner">
                <div class="carousel-item active">
                    <img class="d-block w-100"
src="https://model001.s3.jptok.cloud-object-storage.appdomain.cloud/slide-
03.jpg" alt="First slide">                     <div class="carousel-caption
d-none d-md-block">
                        <h5 class=" bounceInDown">Donate Plasma & Save a
Life</h5>
<p class=" bounceInLeft">"A donation of blood means a
```

```
few minutes to you, but a lifetime for somebody else."<br>
                            "A small step towards blood donation can give life
to someone’s special."<br>
                            "Every blood donor is a life saver."</p>
                        <div class=" vbh">

                            <div class="btn btn-success  bounceInUp">DONATE
NOW!</div>

                        </div>
                    </div>
                </div>

                <div class="carousel-item">
                    <img                 class="d-block                 w-100"
src="https://model001.s3.jptok.cloud-object-storage.appdomain.cloud/slide-
02.jpg" alt="Third slide">
                    <div class="carousel-caption vdg-cur d-none d-md-block">
                        <h5 class=" bounceInDown">Donate Blood & Save a
Life</h5>
                        <p class=" bounceInLeft">"A donation of blood means a
few minutes to you, but a lifetime for somebody else."<br>
                            "A small step towards blood donation can give life
to someone’s special."<br>
                            "Every blood donor is a life saver."</p>
                        <div class=" vbh">

                            <div class="btn btn-danger  bounceInUp"> Donate
Now </div>
                        </div>
                    </div>
                </div>

            </div>
            <a class="carousel-control-prev" href="#carouselExampleIndicators"
role="button" data-slide="prev">
                <span class="carousel-control-prev-icon"
ariahidden="true"></span>
                <span class="sr-only">Previous</span>
            </a>
            <a class="carousel-control-next" href="#carouselExampleIndicators"
role="button" data-slide="next">
                <span class="carousel-control-next-icon"
ariahidden="true"></span>
                <span class="sr-only">Next</span>
            </a>
```

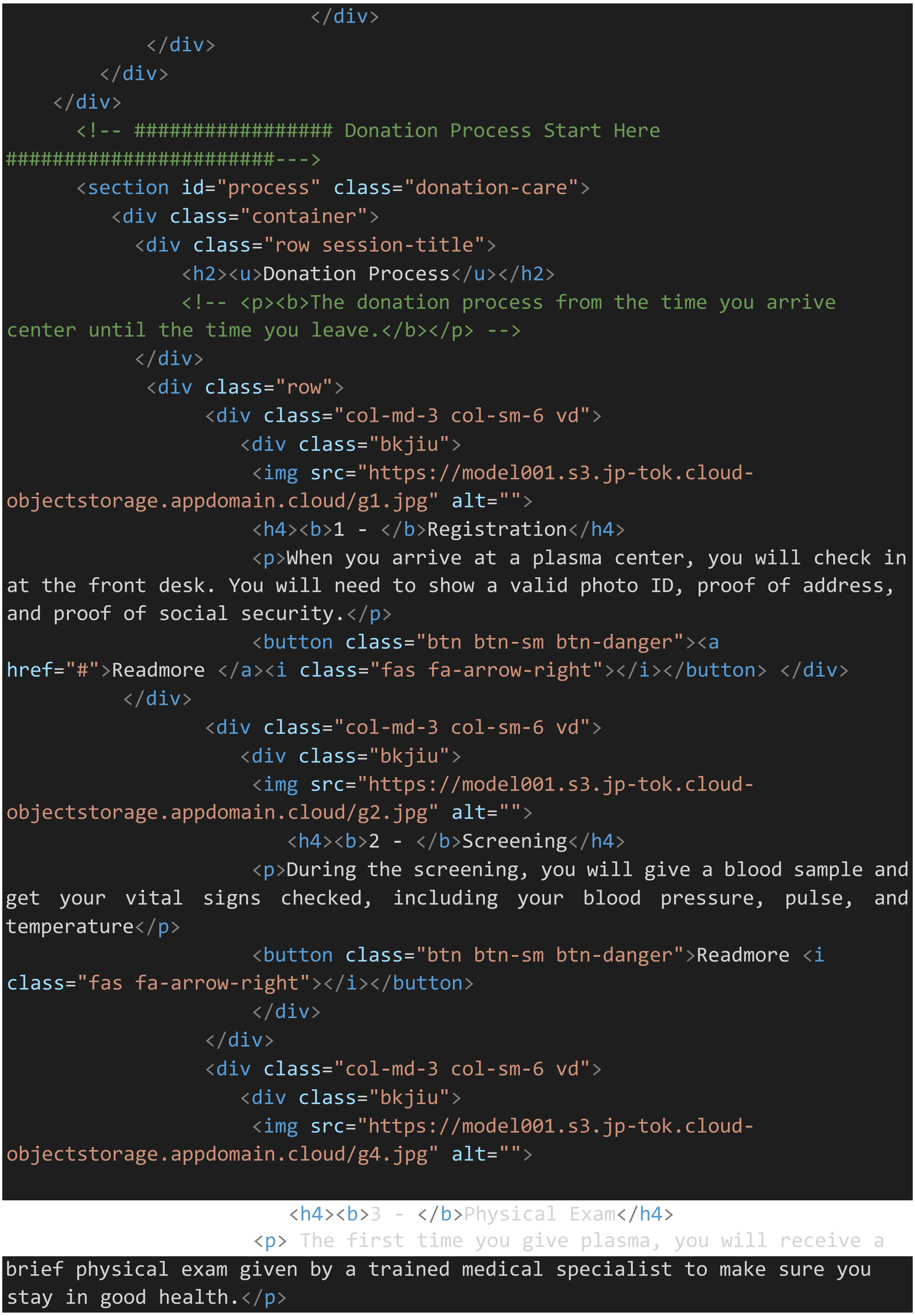


```
        </div>


    </div>

    <!--*************** About Us Starts Here ***************-->
   <section id="about" class="contianer-fluid about-us">
       <div class="container">
           <div class="row session-title">
<h2><u>About Us</u></h2>
               <p> text will  be added</p>
           </div>
            <div class="row">
                <div class="col-md-6 text">
                    <h2>About Plasma Donars</h2>
                    <p>when a patient needs plasma, he/she has to contact a
Medical center or a compatible blood group of a donor in their circle, family,
and friends. However, it is difficult to find suitable donor within a limited
group of people in a given time. In addition, there is no guarantee that
Medical center will have compatible plasma in stock. There is also steady
increase in plasma donation requests posts in social networking sites (like
Facebook, twitter, Instagram, etc.) requesting for donation.</p>
                    <p>Ease of access, requirements of plasma, and the plasma
donation statistics are taken into consideration while researching the topic.
There is a steady need for plasma.</p>
                    <p>Although this application helps finding donors, but the
ease of communication with those donors is not prompt and it requires man
power as the requester (patient or clinic) has to contact each donor
individually. Also, there is no application that provides a proper
communication channel to notify donors about the plasma donation
requirements.</p>
                    <p>Our application provides donors with
functionalities including “plasma request”, “Ask for donation”, “share
with friend”,(slot alloted to donate plasma), at the same time the
recipient can send requests and use this application to maintain the
donation activities.</p>                 </div>
                <div class="col-md-6 image">
                    <img                src="https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/about.jpg" alt="">
                </div>
            </div>
       </div>
   </section>



      <!-- ################# Gallery Start Here #######################--->
    <div id="gallery" class="gallery container-fluid">
      <div class="container">
```

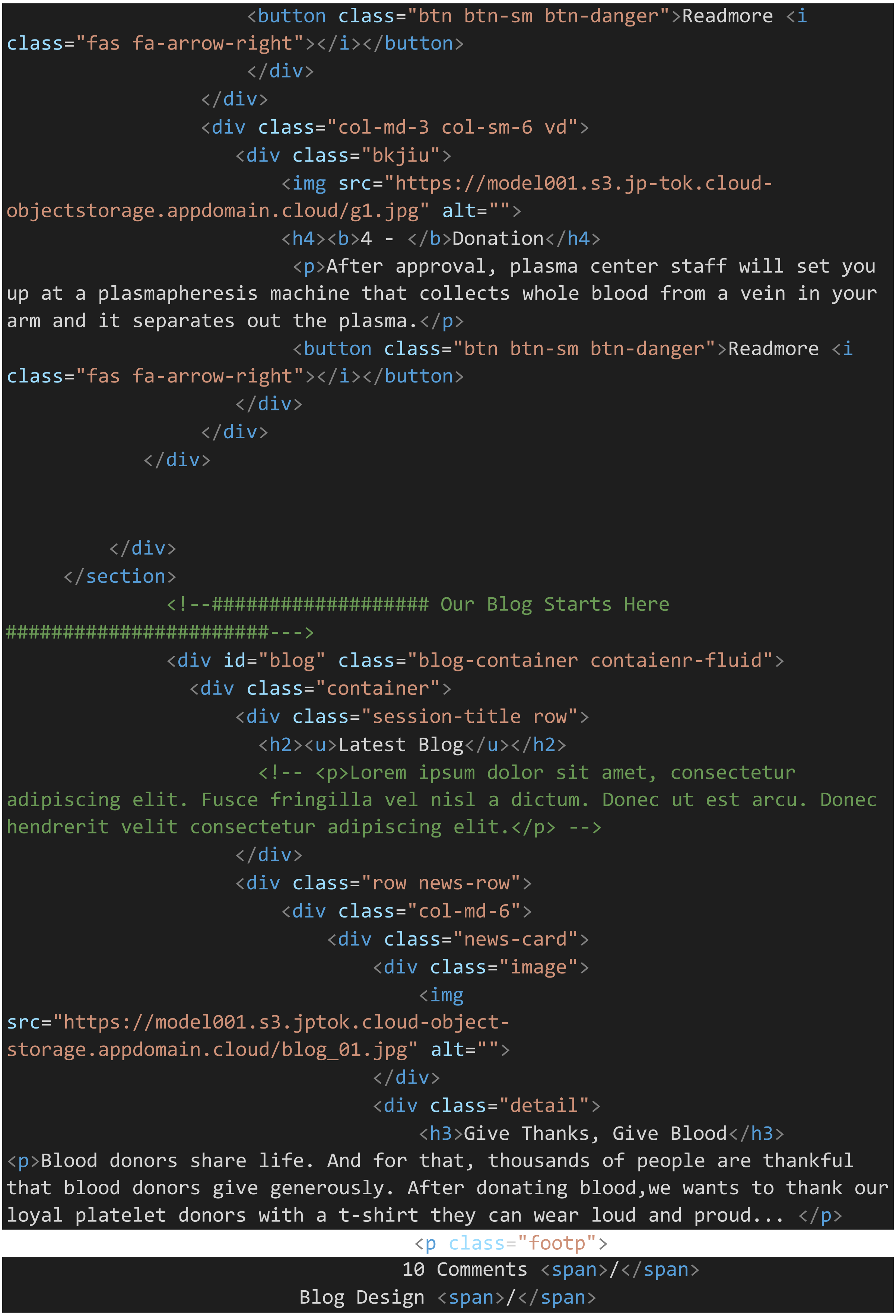
]



```
            <div class="row session-title">
                <h2><u>Checkout Our Gallery</u></h2>
            </div>
            <div class="gallery-row row">
                    <div id="gg-screen"></div>
                    <div class="gg-box">
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g1.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g2.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g3.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g4.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g5.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g6.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g7.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g8.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g9.jpg">
                            </div>
                            <div class="gg-element">
                                <img src="https://model001.s3.jp-
tok.cloudobject-storage.appdomain.cloud/g10.jpg">
                            </div>
```

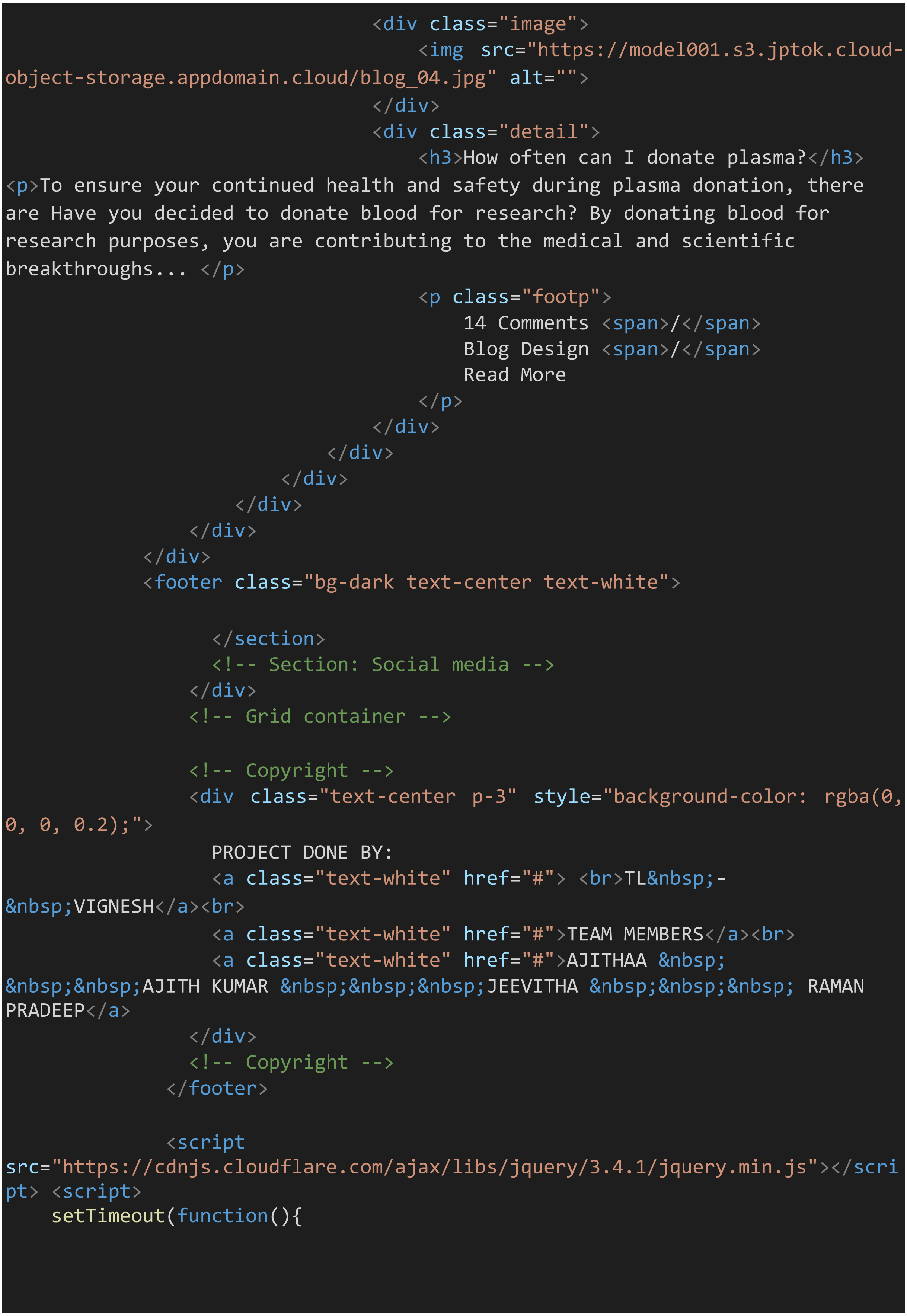


```
                          </div>
            </div>
        </div>
    </div>
      <!-- ################# Donation Process Start Here
#######################--->
      <section id="process" class="donation-care">
         <div class="container">
           <div class="row session-title">
               <h2><u>Donation Process</u></h2>
               <!-- <p><b>The donation process from the time you arrive
center until the time you leave.</b></p> -->
           </div>
            <div class="row">
                 <div class="col-md-3 col-sm-6 vd">
                    <div class="bkjiu">
                     <img src="https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/g1.jpg" alt="">
                     <h4><b>1 - </b>Registration</h4>
                     <p>When you arrive at a plasma center, you will check in
at the front desk. You will need to show a valid photo ID, proof of address,
and proof of social security.</p>
                     <button class="btn btn-sm btn-danger"><a
href="#">Readmore </a><i class="fas fa-arrow-right"></i></button> </div>
          </div>
                 <div class="col-md-3 col-sm-6 vd">
                    <div class="bkjiu">
                     <img src="https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/g2.jpg" alt="">
                        <h4><b>2 - </b>Screening</h4>
                     <p>During the screening, you will give a blood sample and
get your vital signs checked, including your blood pressure, pulse, and
temperature</p>
                     <button class="btn btn-sm btn-danger">Readmore <i
class="fas fa-arrow-right"></i></button>
                     </div>
                 </div>
                 <div class="col-md-3 col-sm-6 vd">
                    <div class="bkjiu">
                     <img src="https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/g4.jpg" alt="">

                        <h4><b>3 - </b>Physical Exam</h4>
                     <p> The first time you give plasma, you will receive a
brief physical exam given by a trained medical specialist to make sure you
stay in good health.</p>
```

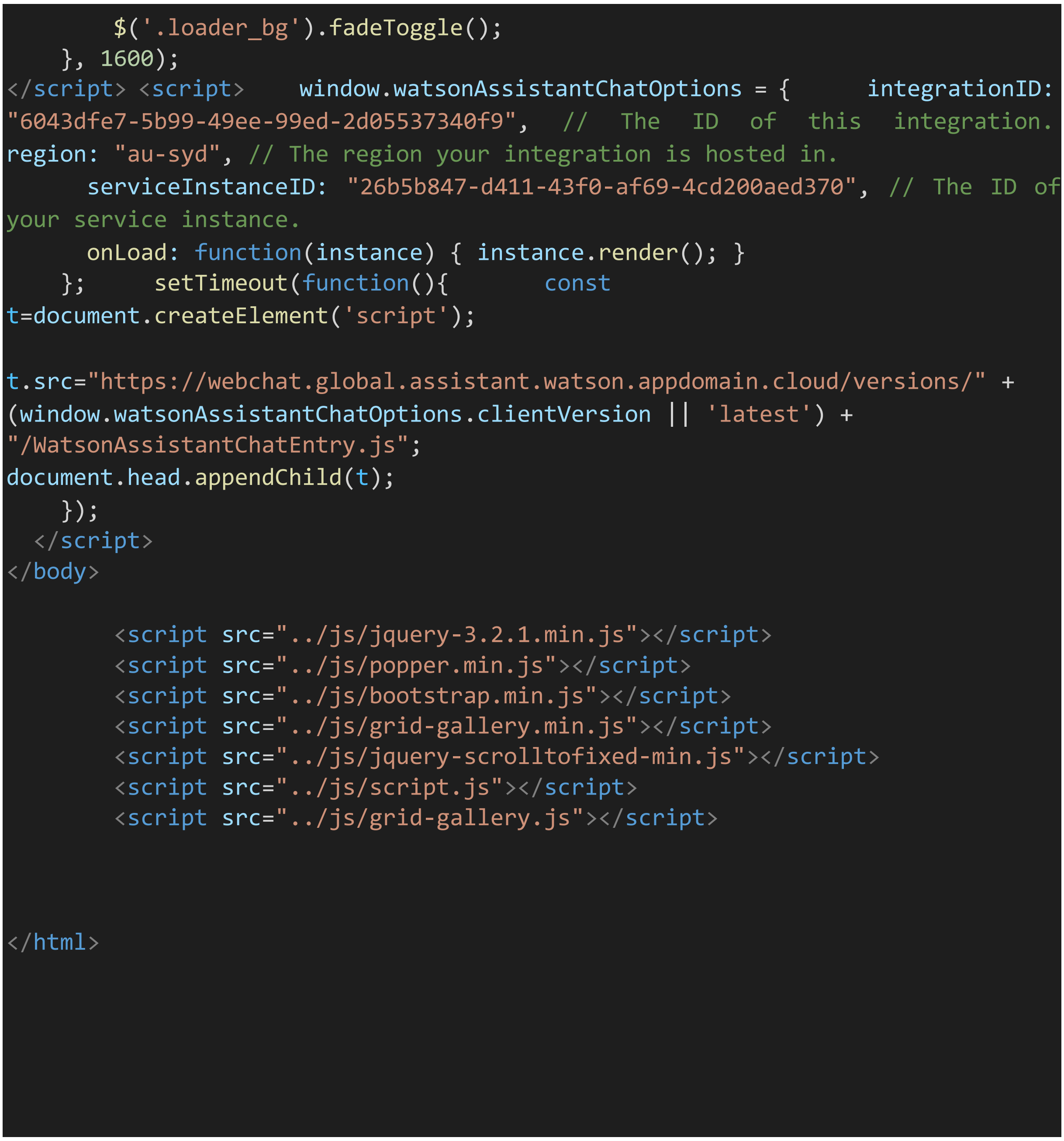


```
                     <button class="btn btn-sm btn-danger">Readmore <i
class="fas fa-arrow-right"></i></button>
                     </div>
                 </div>
                 <div class="col-md-3 col-sm-6 vd">
                    <div class="bkjiu">
                        <img src="https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/g1.jpg" alt="">
                        <h4><b>4 - </b>Donation</h4>
                         <p>After approval, plasma center staff will set you
up at a plasmapheresis machine that collects whole blood from a vein in your
arm and it separates out the plasma.</p>
                         <button class="btn btn-sm btn-danger">Readmore <i
class="fas fa-arrow-right"></i></button>
                    </div>
                 </div>
            </div>


         </div>
     </section>
              <!--################### Our Blog Starts Here
#######################--->
              <div id="blog" class="blog-container contaienr-fluid">
                <div class="container">
                    <div class="session-title row">
                      <h2><u>Latest Blog</u></h2>
                      <!-- <p>Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Fusce fringilla vel nisl a dictum. Donec ut est arcu. Donec
hendrerit velit consectetur adipiscing elit.</p> -->
                    </div>
                    <div class="row news-row">
                        <div class="col-md-6">
                            <div class="news-card">
                                <div class="image">
                                    <img
src="https://model001.s3.jptok.cloud-object-
storage.appdomain.cloud/blog_01.jpg" alt="">
                                </div>
                                <div class="detail">
                                    <h3>Give Thanks, Give Blood</h3>
<p>Blood donors share life. And for that, thousands of people are thankful
that blood donors give generously. After donating blood,we wants to thank our
loyal platelet donors with a t-shirt they can wear loud and proud... </p>
                                    <p class="footp">
                                   10 Comments <span>/</span>
                          Blog Design <span>/</span>
```

```
                                        Read More
                                    </p>
                                </div>
                            </div>
                        </div>
                        <div class="col-md-6">
                            <div class="news-card">
                                <div class="image">
                                    <img
src="https://model001.s3.jptok.cloud-object-
storage.appdomain.cloud/blog_02.jpg" alt="">
                                </div>
                                <div class="detail">
                                    <h3>Donar Celebrate Milestone</h3>
<p>A few Greenwood donors have gone above and beyond in their blood donation
journeys to save hundreds of local lives! These donors are great examples of
loyal, local lifesavers Thank you for your continuous blood donations!</p>
                                    <p class="footp">
                                        17 Comments <span>/</span>
                                        Blog Design <span>/</span>
                                        Read More
                                    </p>
                                </div>
                            </div>
                        </div>
                        <div class="col-md-6">
                            <div class="news-card">
                                <div class="image">
                                    <img
src="https://model001.s3.jptok.cloud-object-
storage.appdomain.cloud/blog_03.jpg" alt="">
                                </div>
                                <div class="detail">
                                    <h3>Plasma Donation Do’s and Don’ts</h3>
<p>Whether you’re a new or returning plasma donor, or someone who is curious
about giving plasma, you probably have some questions about the donation
process. In this blog, we’re breaking down the do’s and don’ts of plasma
donation... </p>
                                    <p class="footp">
                                        09 Comments <span>/</span>
                                        Blog Design <span>/</span>
                                        Read More
                                    </p>
                                </div>
                            </div>
                                                </div><div class="col-md-6">
 <div class="news-card">
```



```
                                <div class="image">
                                    <img src="https://model001.s3.jptok.cloud-
object-storage.appdomain.cloud/blog_04.jpg" alt="">
                                </div>
                                <div class="detail">
                                    <h3>How often can I donate plasma?</h3>
<p>To ensure your continued health and safety during plasma donation, there
are Have you decided to donate blood for research? By donating blood for
research purposes, you are contributing to the medical and scientific
breakthroughs... </p>
                                    <p class="footp">
                                        14 Comments <span>/</span>
                                        Blog Design <span>/</span>
                                        Read More
                                    </p>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
            <footer class="bg-dark text-center text-white">

                  </section>
                  <!-- Section: Social media -->
                </div>
                <!-- Grid container -->

                <!-- Copyright -->
                <div class="text-center p-3" style="background-color: rgba(0,
0, 0, 0.2);">
                  PROJECT DONE BY:
                  <a class="text-white" href="#"> <br>TL&nbsp;-
&nbsp;VIGNESH</a><br>
                  <a class="text-white" href="#">TEAM MEMBERS</a><br>
                  <a class="text-white" href="#">AJITHAA &nbsp;
&nbsp;&nbsp;AJITH KUMAR &nbsp;&nbsp;&nbsp;JEEVITHA &nbsp;&nbsp;&nbsp; RAMAN
PRADEEP</a>
                </div>
                <!-- Copyright -->
              </footer>

              <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> <script>     window.watsonAssistantChatOptions = {      integrationID:
"6043dfe7-5b99-49ee-99ed-2d05537340f9",  //  The  ID  of  this  integration.
region: "au-syd", // The region your integration is hosted in.
      serviceInstanceID: "26b5b847-d411-43f0-af69-4cd200aed370", // The ID of
your service instance.
      onLoad: function(instance) { instance.render(); }
    };     setTimeout(function(){       const
t=document.createElement('script');

t.src="https://webchat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
document.head.appendChild(t);
    });
  </script>
</body>

        <script src="../js/jquery-3.2.1.min.js"></script>
        <script src="../js/popper.min.js"></script>
        <script src="../js/bootstrap.min.js"></script>
        <script src="../js/grid-gallery.min.js"></script>
        <script src="../js/jquery-scrolltofixed-min.js"></script>
        <script src="../js/script.js"></script>
        <script src="../js/grid-gallery.js"></script>



</html>
```

Donar.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <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="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT"
crossorigin="anonymous">

    <title>Donar Req</title>
</head>
<body>
    <header class="p-3 text-bg-dark">
```

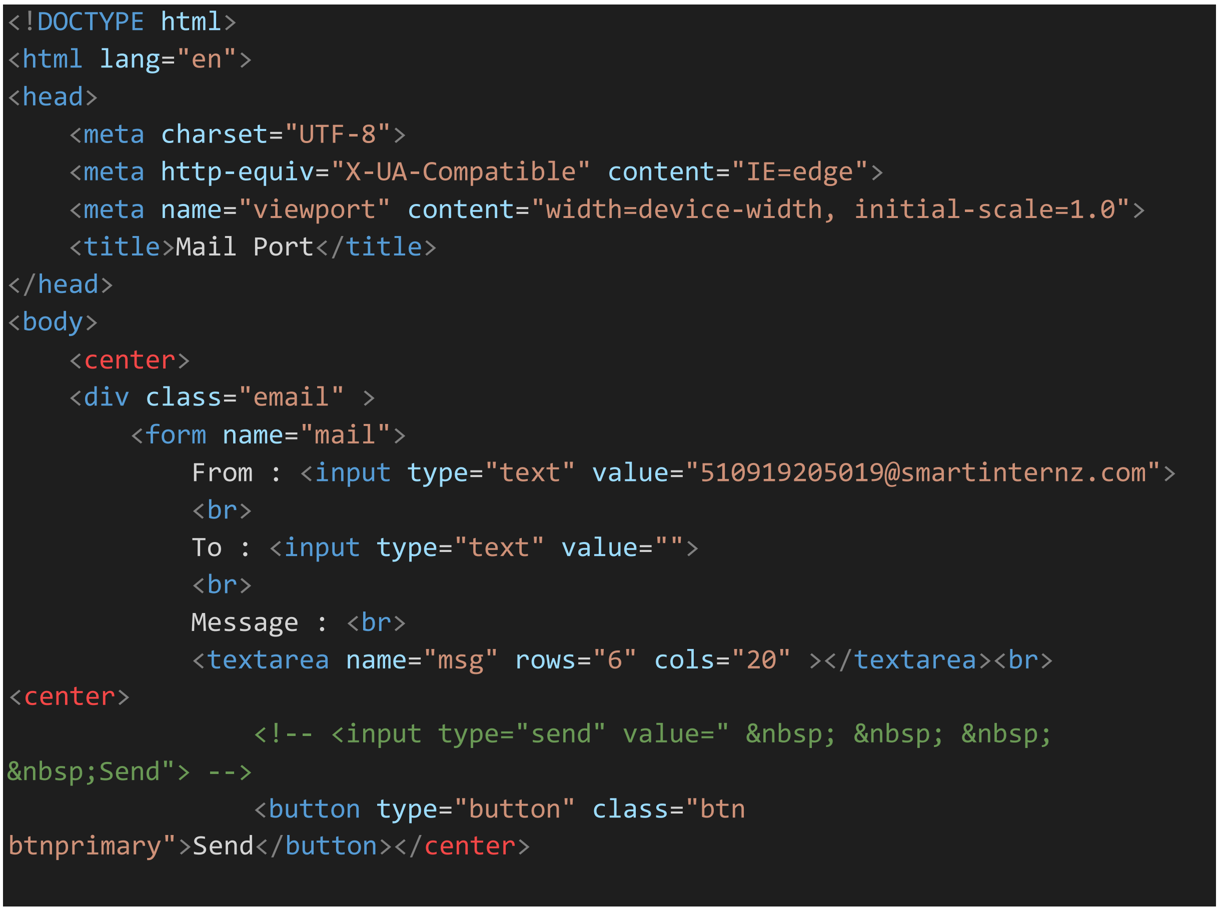
```
                    ></a>

                    <!-- 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>
```

Donlogin.html

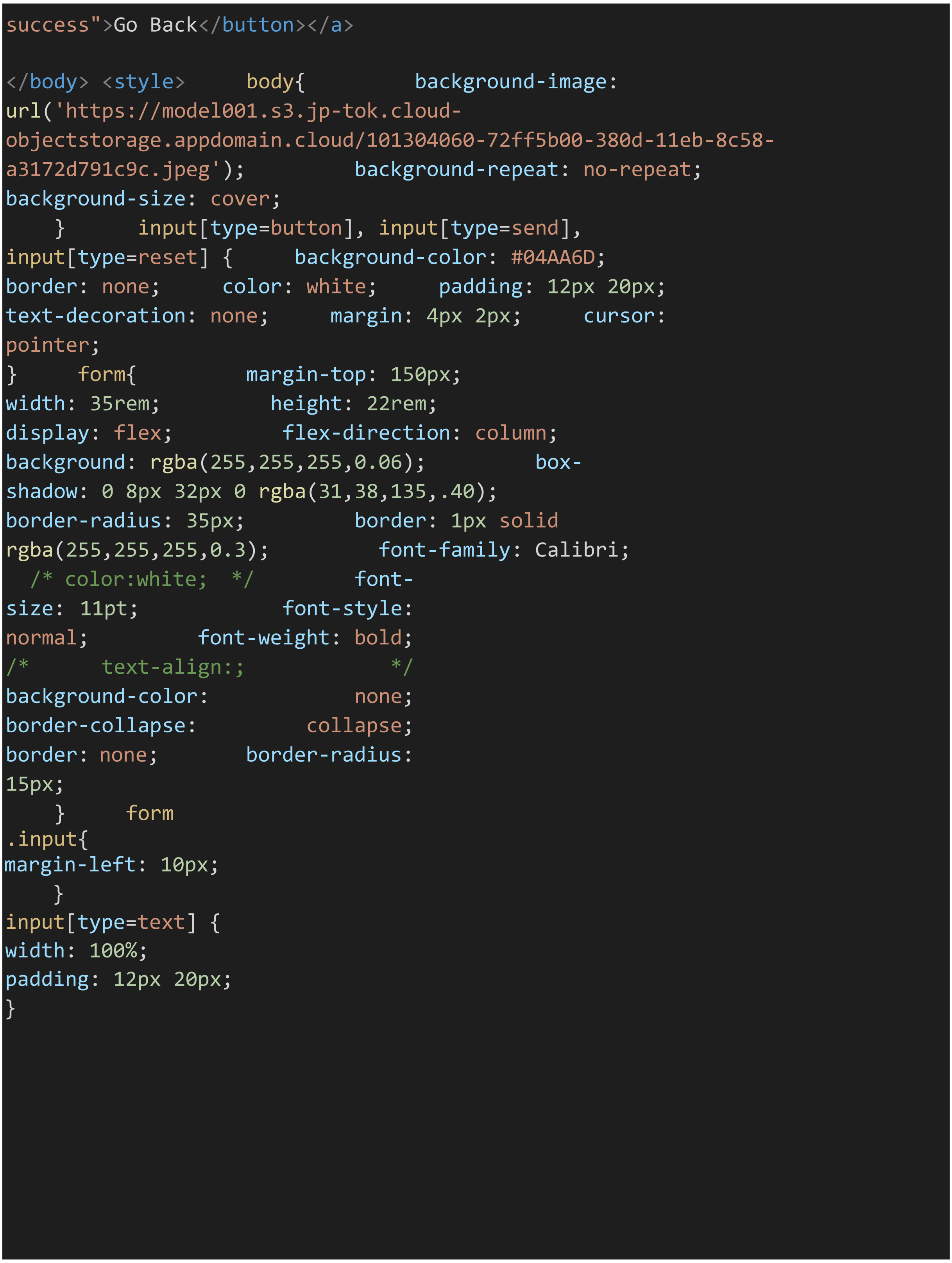
```
<!DOCTYPE html>
<html lang="en" >
<head>
  <meta charset="UTF-8">
  <title>Donar Login</title>   <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.cs
s ">
<link rel="stylesheet" href="../static/logincss.css">

</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"></scr
i pt>
```

```
  }, 1600);
</script>

</body>
</html>
```

Mail.html

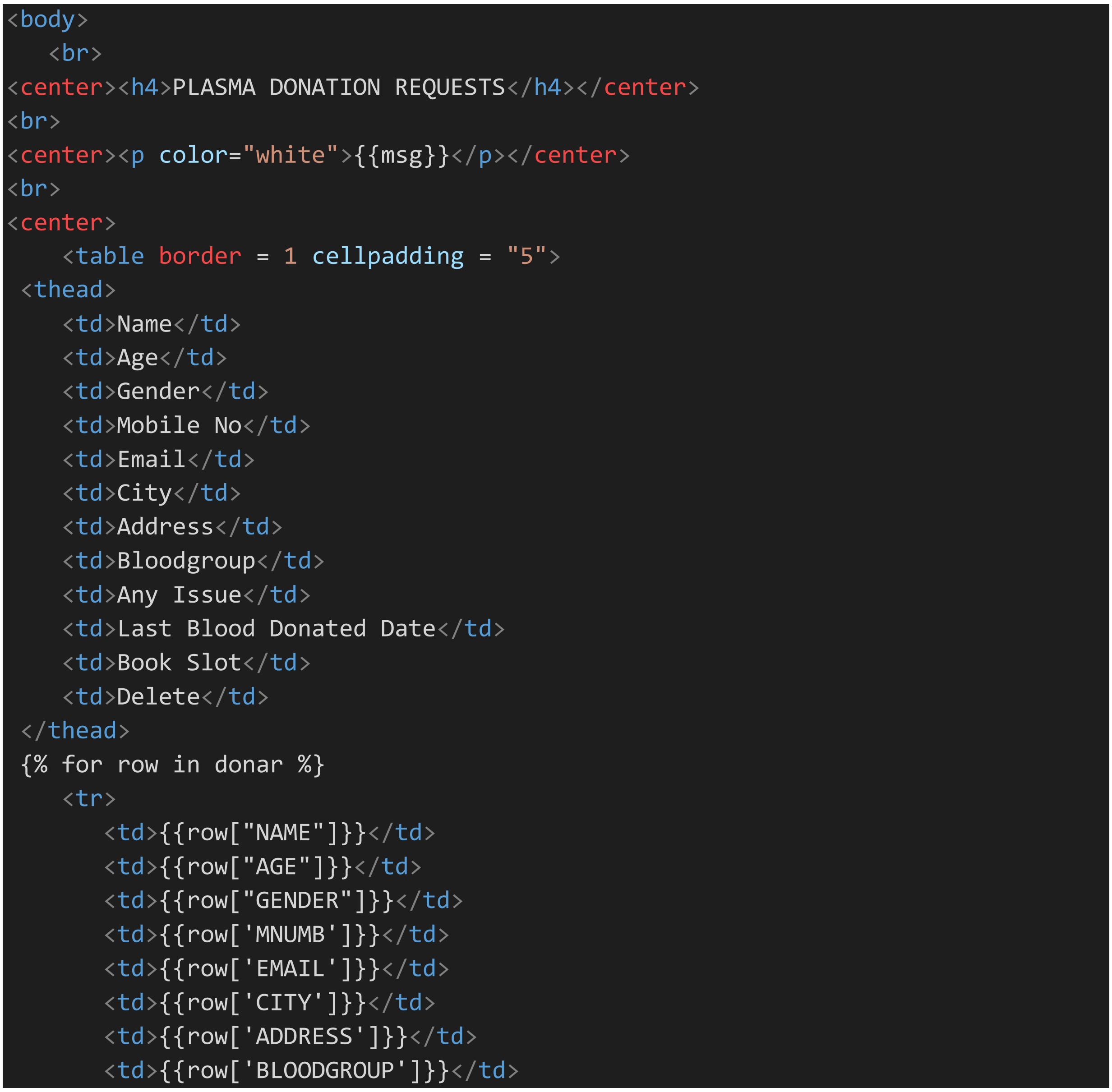


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Mail Port</title>
</head>
<body>
    <center>
    <div class="email" >
        <form name="mail">
            From : <input type="text" value="510919205019@smartinternz.com">
            <br>
            To : <input type="text" value="">
            <br>
            Message : <br>
            <textarea name="msg" rows="6" cols="20" ></textarea><br>
<center>
                <!-- <input type="send" value=" &nbsp; &nbsp; &nbsp;
&nbsp;Send"> -->
                <button type="button" class="btn
btnprimary">Send</button></center>
```

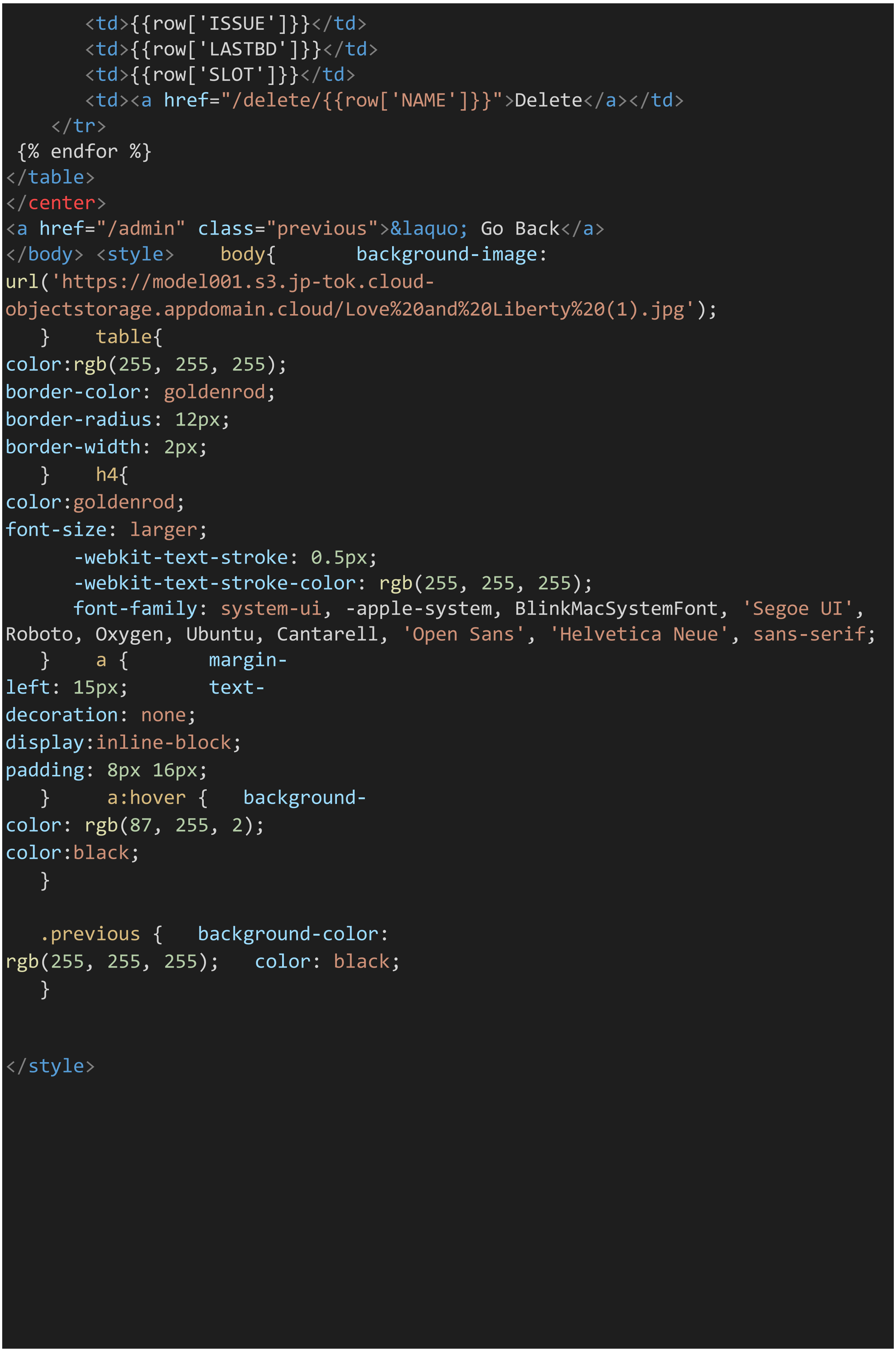


```
success">Go Back</button></a>

</body> <style>     body{          background-image:
url('https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/101304060-72ff5b00-380d-11eb-8c58-
a3172d791c9c.jpeg');         background-repeat: no-repeat;
background-size: cover;
    }      input[type=button], input[type=send],
input[type=reset] {     background-color: #04AA6D;
border: none;     color: white;     padding: 12px 20px;
text-decoration: none;     margin: 4px 2px;     cursor:
pointer;
}     form{          margin-top: 150px;
width: 35rem;          height: 22rem;
display: flex;          flex-direction: column;
background: rgba(255,255,255,0.06);         box-
shadow: 0 8px 32px 0 rgba(31,38,135,.40);
border-radius: 35px;          border: 1px solid
rgba(255,255,255,0.3);          font-family: Calibri;
  /* color:white;  */         font-
size: 11pt;            font-style:
normal;          font-weight: bold;
/*      text-align:;            */
background-color:             none;
border-collapse:          collapse;
border: none;        border-radius:
15px;
    }     form
.input{
margin-left: 10px;
    }
input[type=text] {
width: 100%;
padding: 12px 20px;
}
```

Plasmadon.html



```html
<body>
   <br>
<center><h4>PLASMA DONATION REQUESTS</h4></center>
<br>
<center><p color="white">{{msg}}</p></center>
<br>
<center>
    <table border = 1 cellpadding = "5">
 <thead>
    <td>Name</td>
    <td>Age</td>
    <td>Gender</td>
    <td>Mobile No</td>
    <td>Email</td>
    <td>City</td>
    <td>Address</td>
    <td>Bloodgroup</td>
    <td>Any Issue</td>
    <td>Last Blood Donated Date</td>
    <td>Book Slot</td>
    <td>Delete</td>
 </thead>
 {% for row in donar %}
    <tr>
       <td>{{row["NAME"]}}</td>
       <td>{{row["AGE"]}}</td>
       <td>{{row["GENDER"]}}</td>
       <td>{{row['MNUMB']}}</td>
       <td>{{row['EMAIL']}}</td>
       <td>{{row['CITY']}}</td>
       <td>{{row['ADDRESS']}}</td>
       <td>{{row['BLOODGROUP']}}</td>
```



```
       <td>{{row['ISSUE']}}</td>
       <td>{{row['LASTBD']}}</td>
       <td>{{row['SLOT']}}</td>
       <td><a href="/delete/{{row['NAME']}}">Delete</a></td>
    </tr>
 {% endfor %}
</table>
</center>
<a href="/admin" class="previous">&laquo; Go Back</a>
</body> <style>    body{       background-image:
url('https://model001.s3.jp-tok.cloud-
objectstorage.appdomain.cloud/Love%20and%20Liberty%20(1).jpg');
   }    table{
color:rgb(255, 255, 255);
border-color: goldenrod;
border-radius: 12px;
border-width: 2px;
   }    h4{
color:goldenrod;
font-size: larger;
      -webkit-text-stroke: 0.5px;
      -webkit-text-stroke-color: rgb(255, 255, 255);
      font-family: system-ui, -apple-system, BlinkMacSystemFont, 'Segoe UI',
Roboto, Oxygen, Ubuntu, Cantarell, 'Open Sans', 'Helvetica Neue', sans-serif;
   }    a {       margin-
left: 15px;       text-
decoration: none;
display:inline-block;
padding: 8px 16px;
   }     a:hover {   background-
color: rgb(87, 255, 2);
color:black;
   }

   .previous {   background-color:
rgb(255, 255, 255);   color: black;
   }


</style>
```

GitHub and Project demo link GitHub

link:

https://github.com/IBM-EPBL/IBM-Project-24400-1659942389

Project demo link:

https://drive.google.com/drive/folders/1xvtlufKghntnJKlXPP1w0iEytIdY Vkp8