

PLASMA DONOR APPLICATION

A-IBM PROJECT FINAL REPORT

SUBMITTED BY

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**IBM PROJECT
PLASMA DONOR APPLICATION**

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CHAPTER 1

INTRODUCTION

PROJECT OVERVIEW:

The necessity of blood has become a significant concern in the present context all over the world. Due to a shortage of blood, people couldn't save themselves or their friends and family members. A bag of blood can save a precious life. Statistics show that a tremendous amount of blood is needed yearly because of major operations, road accidents, blood disorders, including Anemia, Hemophilia, and acute viral infections like Dengue, etc. Approximately 85 million people require single or multiple blood transfusions for treatment.

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, plasma therapy is an experimental approach to treat those COVID-positive patients and help them recover faster. Therapy, which is considered reliable and safe. If a particular person has fully recovered from COVID19, they are eligible to donate their plasma.

CHAPTER 2

LITRETURE SURVEY

S. NO	TITLE	YEAR	TECHNIQUES	PARAMETERS	TOOLS	FINDINGS
1	Life saver E- blood donation applicati on using cloud.	2020 June	GPS facility to locate Donor .	To find the blood Donor when required //search availability of blood in blood blanks //manage the blood donation camp.	Cloud computing.	Internet connection is mandatory and reports are verified.
2	Developi ng a plasma Donor applicati on using function as a service in AWS		In an AWS function- as- a- services used and Amazon SNS and AWS elastic compute cloud.	Saving and notifying about the current donors, it helps the user to track down the necessary information about the donors.	Amazon Google IBM and Microsoft Azure Cloud Computing services has been used in this application.	Already filtered the active members Here user can be a given as well as borrower.
3	E-blood Bank app for organisi ng and order the blood donation	Jan 2018	Using cloud computing which is developed as SMS mobile based blood management system.	Process the blood data and request electronically collecting blood through collection activity.	GPS for track location and Asterisk hardware for direct call	This app is more organised and it is superfast.

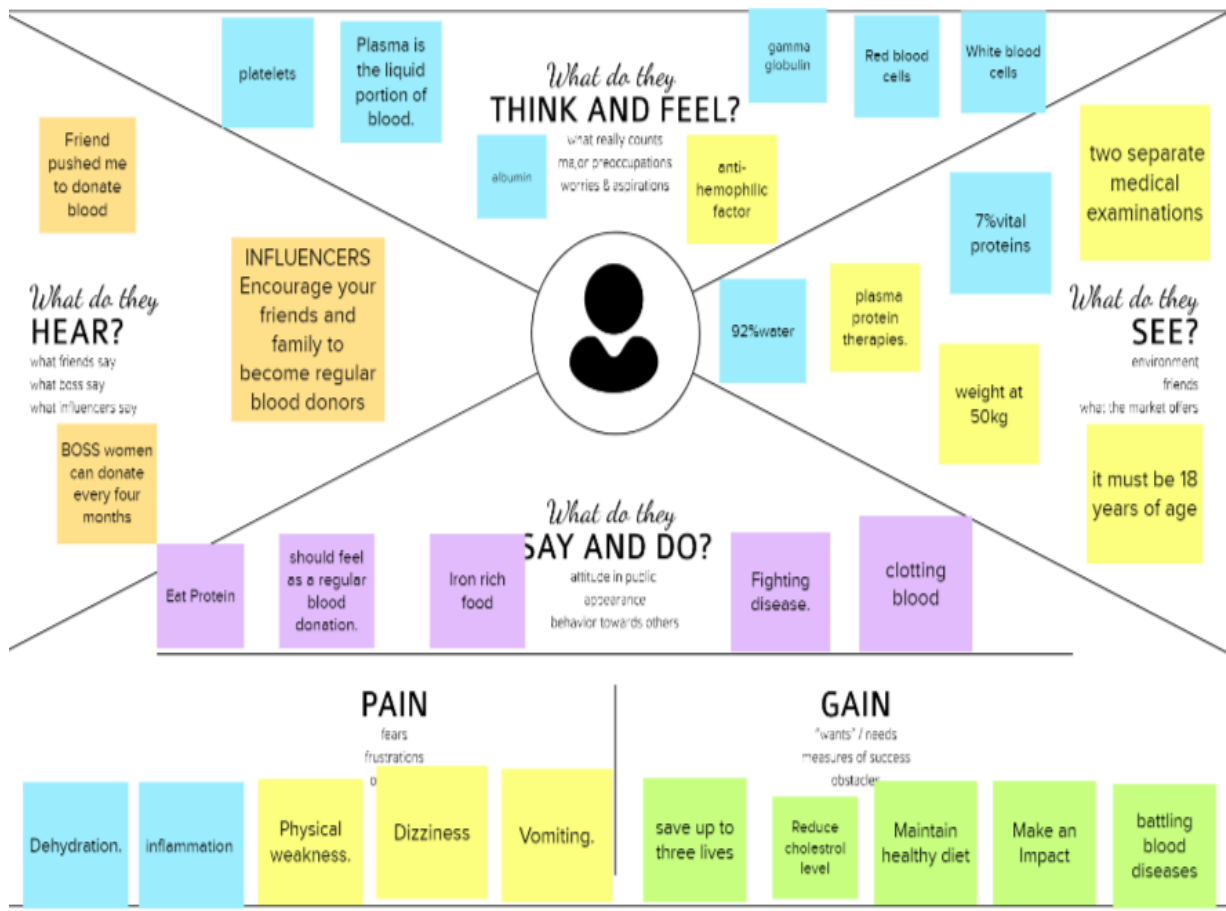
4	Blood donor routine detector using k-nearest neighbours The second in conference on natural Resources and Life service	24 Aug 2019	By Microsoft Excel for data collecting by using waterfall model for process of the system .	It provides the class status of the donor for the specific blood type.	Unified Modifying Language (UML)modelling designed using OOPS concept.	It improves the accuracy of the calculations result on this system.
5	An Android application for volunteer blood donors.	2019 May	Android software stack produced by Google and SQ Lite database.	It determines the nearest one and send them the allows for blood donation.	Android studio using a n t and unto the great build automation platform.	Wrong inputs will affect the project outputs. So it should be rectified.

CHAPTER 3

IDEATION AND PROPOSED SOLUTION

EMPATHY MAP CANVAS:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to help 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.




IDEATION AND BRAINSTORMING :

My project name is **Plasma donor application**, let us see the brainstorm and ideaprioritization Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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

Template



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

🕒 10 minutes to prepare
📄 1 hour to edit a site
👤 2-8 people recommended

➕

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

📋

Team gathering

Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

📋

Set the goal

Think about the problem you'll be focusing on solving in the brainstorming session.

📋

Learn how to use the facilitation tools

Use the Facilitation Superpowers to run a happy and productive session.


[Open article](#)

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes



🧠

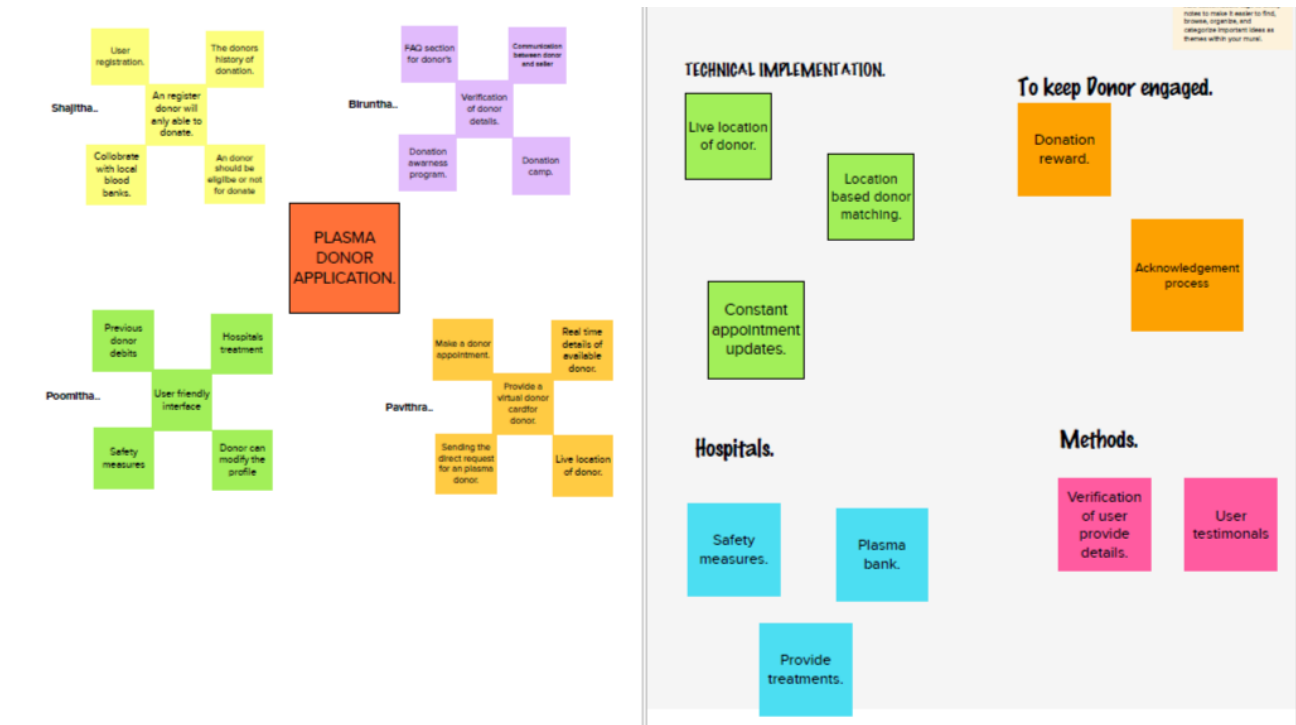
Key rules of brainstorming

To run an smooth and productive session

🗣️ Stay in topic.	💡 Encourage wild ideas.
🙊 Defer judgement.	👂 Listen to others.
🗣️ Go for volume.	👁️ If possible, be visual.

7

Step-2: Brainstorm, Idea Listing and Grouping:



Step-3: Idea Prioritization:

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes



PROPOSED SOLUTION:

S.NO.	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	Data on the availability of plasma in hospitals, blood banks, and recipient blood group information are not readily available.
2.	Idea / Solution description	IDEA: We can easily access from anywhere at anytime through our web application.
3.	Novelty / Uniqueness	NOVELTY: The system proposed here aims at connecting the donors & through the patients in online application.
4.	Social Impact / Customer Satisfaction	SOCIAL IMPACT: We can be store the data in long days . They can face any difficulties
5.	Business model(Revenue Model)	During covid situation they need for plasma is increasing day by day hence increasing revenue.

6.	Scalability of the Solution	Through the IBM cloud , we can store the database in IBM database.
----	-----------------------------	---

PROBLEM SOLUTION FIT:

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Who is your customer? i.e. working parents of 0-5 y.o. kids The user/customer who belonging to medical department	6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices. There is no boundation of using this application because the user/customer who is having knowledge of this application can work on it easily	5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking The suggestion made by the user/customer are implemented in these kinds of applications. In the such cases the most important suggestions of the user /customer are developed and made available in updates	Explore AS, differentiate
	2. JOBS-TO-BE-DONE / PROBLEMS Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. The awareness of the application motivates the user to use this application.	9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations. The user/customer is new to this application. The user/customer have no knowledge about this application.	7. BEHAVIOUR What does your customer do to address the problem and get the job done? i.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace) The user/customer use different devices in their hands. Medical people can use this application regularly while comparing to others.	
Focus on J&P, tap into BE, understand RC	3. TRIGGERS What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news. The awareness of this application motivates the users to use this applications.	10. YOUR SOLUTION If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour. The suggestion which made by the user will be noted and the apt suggestions will be added in further updates	8. CHANNELS of BEHAVIOUR 8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7 Advertise online videos with influence to test the product and promote it.	Extract online & offline CH of BE
	4. EMOTIONS: BEFORE / AFTER How do customers feel when they face a problem or a job and afterwards? Before-expected 'specification' not met makes enthusiastic. After-who recovered from the error they will become comfortable.		8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development. To encourage and motivate the medical field oriented personnel to use this application.	
Identify strong TR & EM				

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	Donor Registration	Registration through Form Registration through Gmail
FR-2	Donor Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Recipient Registration	Register with form Register with Email
FR-4	Recipient Confirmation	Confirm via Email Confirm via OTP
FR-5	User Login	Login via Email Login via OTP.
FR-6	Recipient Notifies	Recipient get notified from Donor via messages.

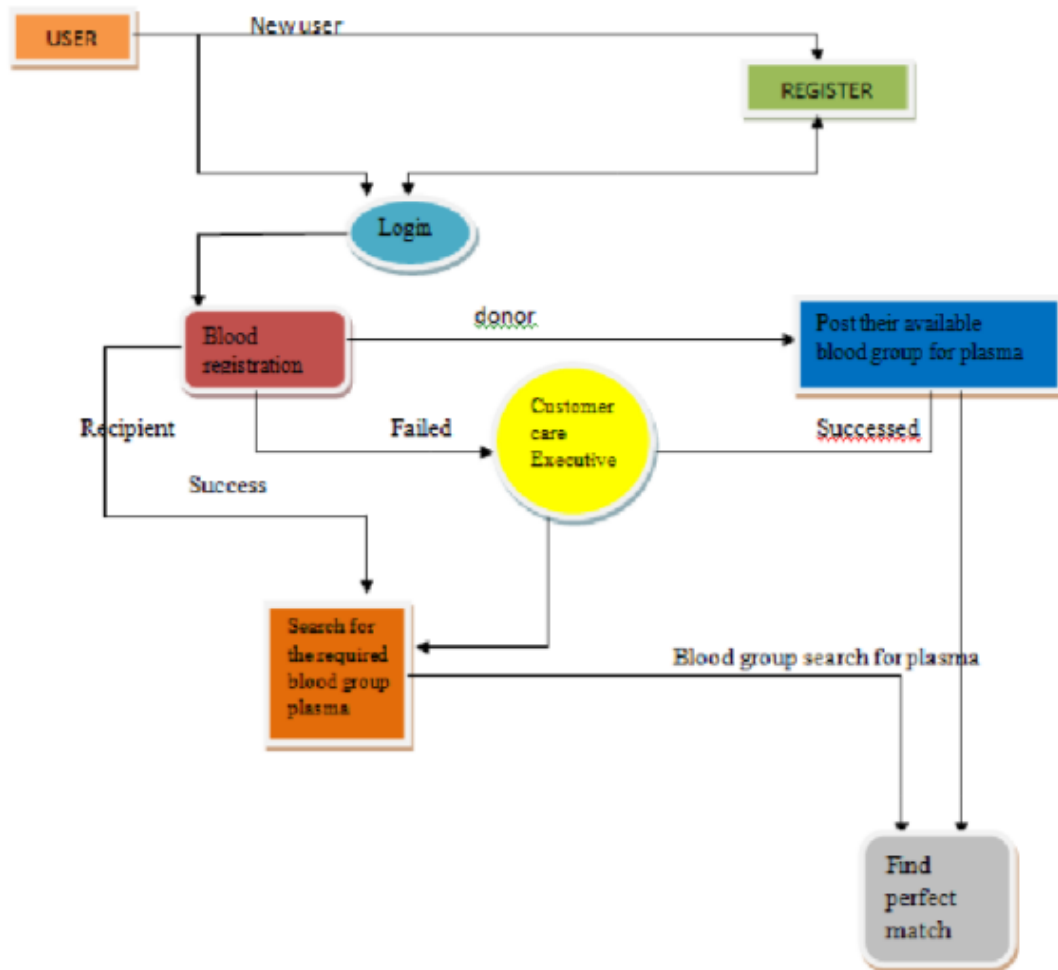
Non-functional Requirements:

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

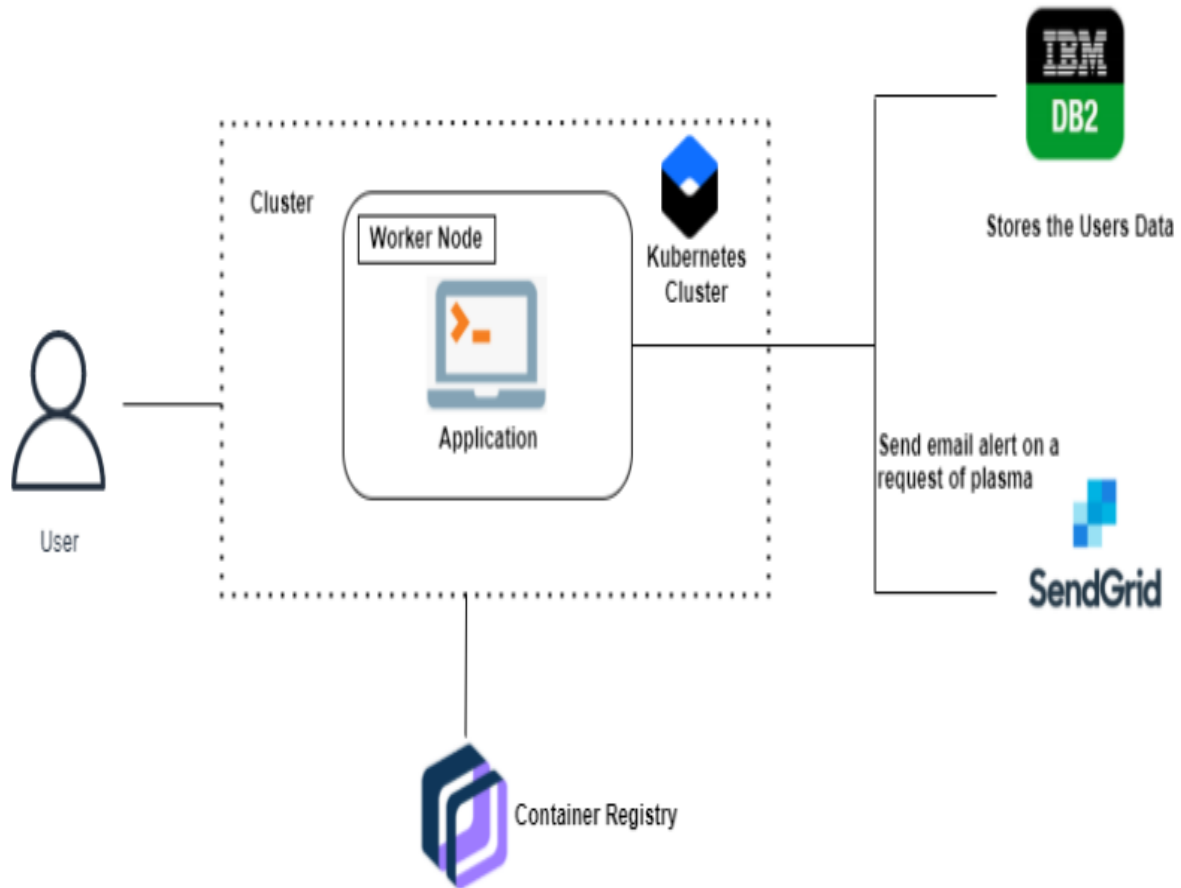
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Creating an online platform that not just serves strong network between plasma donors and plasma recipients and an User with no understanding of application must be able to interact with chatbot.
NFR-2	Security	The admin will handle the information given by the user and store them in a secured database which cannot be accessed by any other people.
NFR-3	Reliability	The database update process must roll back all related updates when any update fails.
NFR-4	Performance	This application will help donors as well as recipients in a better manner.
NFR-5	Availability	The notification about the availability of donor was sent through SMS.
NFR-6	Scalability	More number of users will register.

CHAPTER 5
PROJECT DESIGN

DATA FLOW DIAGRAMS:



SOLUTION & TECHNICAL ARCHITECTURE:



USER STORIES:

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	I can register the app with Gmail login.	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password	I can register & access the dashboard with Gmail Login	High	Sprint-1
	Dashboard	USN-6	As a user, I can search the blood group for which I need plasma.	I can get perfectly-matched plasma through filters.	High	Sprint-2
Customer (Web user)	Dashboard	USN-7	As a user, I can see login page and registration page for which the user logs in and searches for the required blood group plasma.	I can login through Gmail and Facebook and register for my required blood group plasma.	Medium	Sprint-2
Customer Care Executive	Dashboard	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 see who are the persons registered here and their mail ids.	Medium	Sprint-4
	Dashboard	USN-10	As an Administrator, I can view how many members need what kind of blood group for plasma.	I can count the number of requirements.	Low	Sprint-4
ChatBot	Dashboard	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 that are related to our app.	Medium	Sprint-4

CHAPTER 6

PROJECT PLANNING & SCHEDULING

SPRINT PLANNING & ESTIMATION :

Sprint	Functional Requirement	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 my email, password, and confirming my password.	2	High	SHAJITHA BEGAM
		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	PAVITHRA
	LOGIN	USN-3	As a user, I can log into the application by entering email & password	1	High	BIRUNITHA DEVI
	DASHBOARD	USN-4	Logging in takes to the dashboard for the logged user.	2	High	POOMITHA
Sprint 2	WORK SPACE	USN-1	Workspace nutrition assistance application	2	High	PAVITHRA
	CONNECTING TO IBM DB2	USN-2	Linking database with application	2	High	SHAJITHA BEGAM
Sprint 3		USN-1	Wrapping up the server side works of frontend	1	Medium	BIRUNITHA
	WATSON ASSISTANT	USN-2	Creating Chatbot for nutritional facts query and basic problems should be solved	1	Medium	SHAJITHA BEGAM
	SENDGRID	USN-3	Using SendGrid to send mail to the user about how many calories can eat in every day	1	Medium	SHAJITHA BEGAM
Sprint 4	DOCKER	US N-1	Creating image of website using docker	2	High	SHAJITHA BEGAM
	CLOUD REGISTRY	US N-2	Uploading Docker image to IBM Cloud registry	2	High	BIRUNITHA
	KUBERNETES	US N-3	Create container using the Docker image and hosting the site	2	High	PAVITHRA
	EXPOSING	US N-4	Exposing IP/Ports for the site	2	High	SHAJITHA BEGAM

SPRINT DELIVERY & SCHEDULE

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	03 Oct 2022	08 Oct 2022	20	10 Oct 2022
Sprint-2	20	6 Days	16 Oct 2022	22 Oct 2022	20	30 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022
Sprint-4	20	6 Days	13 Nov 2022	18 Nov 2022	20	19 Nov 2022

REPORTS FROM JIRA:

MILESTONE	ACTIVITY
LOGIN PAGE	Creating a Login\ Registration page for thetracker application webpage
UI/UX	Creating a Login\ Registration page for thetracker application webpage
CONNECT TO IBM DB2	Creating a Login\ Registration page for thetracker application webpage
WATSON ASSISTANT	Creating a Login\ Registration page for thetracker application webpage
WEBSITE TESTING	Test multiple cases of backendand frontend for bugs.
SENDGRID	Setting up SendGrid tosend emails to users
DOCKER	Create a docker image andupload it to IBM Cloud Registry
KUBERNETES	Migrating docker image Deploying via IBM Kubernetes Exposing IP\ Ports accordingly
SUPPORT	Bug fixes Website maintenance Scaling replicas

CHAPTER 7

CODING AND SOLUTIONING

FEATURE 1:

LOGIN:

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
  <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
  <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
  <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
  <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
  <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
  <link rel="stylesheet" href="style.css">
</head>
<style>
.login{
top: 20%;
}
.body{
background-color:blueviolet;
}
</style>
</head>
<body>
<div class="header">
<div>Plasma Donor App</div>
<ul>
<li><a href="/registration">Register</a></li>
```

```

<li><a class="active" href="/login">Home</a></li>
</ul>
</div>
<div class="login" >
  <div>
    </div>
  </div>

  <!-- Main Input For Receiving Query to our ML -->
  <form action="{{ url_for('loginpage')}}"method="post">
    <input type="text" name="user" placeholder="Enter UserName" required="required"
style="color:black" />
    <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black" />
    <button type="submit" class="btn btn-primary btn-block btn-large">Login</button>
  </form>
  <br><br>
  <div style="color:black">
    {{ pred }}</div>
  </div>

</body>
</html>

```

OUTPUT:

Enter UserName

Enter Password

Login

FEATURE 2:

REGISTER.html

```
<!DOCTYPE html>
```

```
<html >
```

```
<!--From https://codepen.io/frytyler/pen/EGdtg-->
```

```
<head>1
```

```
<meta charset="UTF-8">
```

```
<title>Plasma Donor App</title>
```

```
<link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet' type='text/css'>
```

```
<link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' type='text/css'>
```

```
<link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
```

```
<link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
```

```
rel='stylesheet' type='text/css'>
```

```
<link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
```

```
<!--link rel="stylesheet" href="style.css"-->
```

```
<style>
```

```
.login{
```

```
top: 20%;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="header">
```

```
<div>Plasma Donor App</div>
```

```
<ul>
```

¹

```

<li><a class="active" href="/login">Home</a></li>
</ul>
</div>
<div class="login">

<!-- Main Input For Receiving Query to our ML -->
<form action="{{ url_for('register')}}" method="post">
    <input type="text" name="name" placeholder="Enter Your Name" required="required"
style="color:black"/>
    <input type="email" name="email" placeholder="Enter Email" required="required"
style="color:black"/>
    <input type="text" name="phone" placeholder="Enter 10-digit mobile number"
required="required" style="color:black"/>
    <input type="city" name="city" placeholder="Enter Your City Name" required="required"
style="color:black"/>
    <select name="infect">
        <option value="select" selected>Select COVID infection status</option>
        <option value="infected">Infected</option>
        <option value="uninfected">Uninfected</option>
    </select>
    <select name="blood">
        <option value="select" selected>Choose your blood group</option>
        <option value="O Positive">O Positive</option>
        <option value="A Positive">A Positive</option>
        <option value="B Positive">B Positive</option>
        <option value="AB Positive">AB Positive</option>
        <option value="O Negative">O Negative</option>
        <option value="A Negative">A Negative</option>
        <option value="B Negative">B Negative</option>
        <option value="AB Negative">AB Negative</option>
    </select>
    <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black"/>
    <button type="submit" class="btn btn-primary btn-block btn-large">Register</button>

</form>

```

```
<br><br>
<div style="color:black">
  {{ pred }}</div>
</div>
|
</body>
</html>
```

OUTPUT:

Plasma Donor App

Home

Enter Your Name

Enter Email

Enter 10-digit mobile number

Enter Your City Name

Select COVID infection status

Choose your blood group

Enter Password

Register

DATA BASE SCHEMA:

IBM Db2 on Cloud

Load DataLoad History**Tables**ViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

Schemas

<input type="checkbox"/>	Name	Type	Tables
<input type="checkbox"/>	KPX66644	User	1

Total: 1, selected: 0

IBM Db2 on Cloud

Load DataLoad History**Tables**ViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

Schemas

Tables

New table

☐ NameSchemaProperties

☐ USERKPX66644...

Total: 1, selected: 0

Table definition

USER

No statistics available.

Name	Data type	Nullable	Length	Scale
NAME	VARCHAR	N	250	0
EMAIL	VARCHAR	N	250	0
PHONE	VARCHAR	N	250	0
CITY	VARCHAR	N	250	0
INFECT	VARCHAR	N	250	0

View data

IBM Db2 on Cloud

Load DataLoad History**Tables**ViewsIndexesAliasesMQTsSequencesApplication objects

Find schemas or tables

Refresh

SQL

Schemas

Tables

Name

Schema

Properties

USER

KPX66644

...

Total: 1, selected: 0

New table

Table definition

USER

No statistics available.

Name	Data type	Nullable	Length	Scale	
PHONE	VARCHAR	N	250	0	
CITY	VARCHAR	N	250	0	
INFECT	VARCHAR	N	250	0	
BLOOD	VARCHAR	N	250	0	
PASSWORD	VARCHAR	N	250	0	

View data

26

CHAPTER 8

TESTING

TEST CASE:

Test cases are a set of actions performed on a system to determine if it satisfies software requirements and functions correctly as it claimed to perform.

USER ACCEPTANCE TESTING:

Purpose of Document :

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

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	8	15
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	9	2	4	11	20
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	0	1	8
Totals	22	14	11	22	51

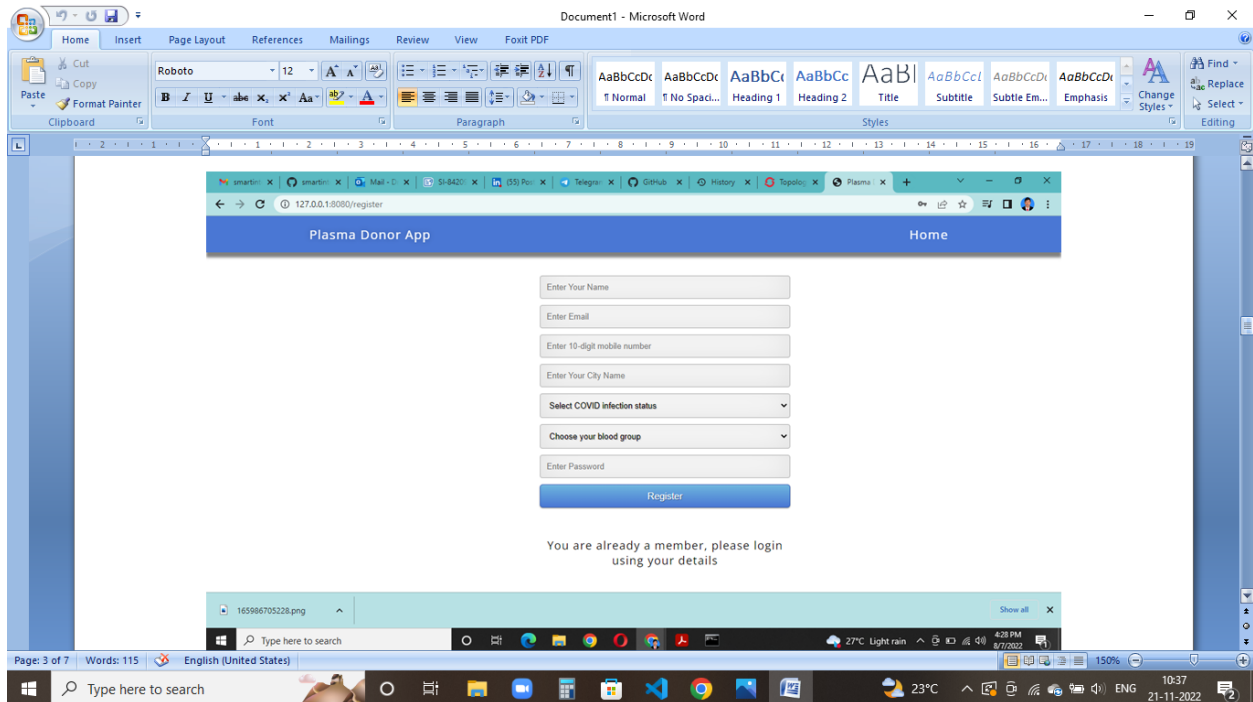
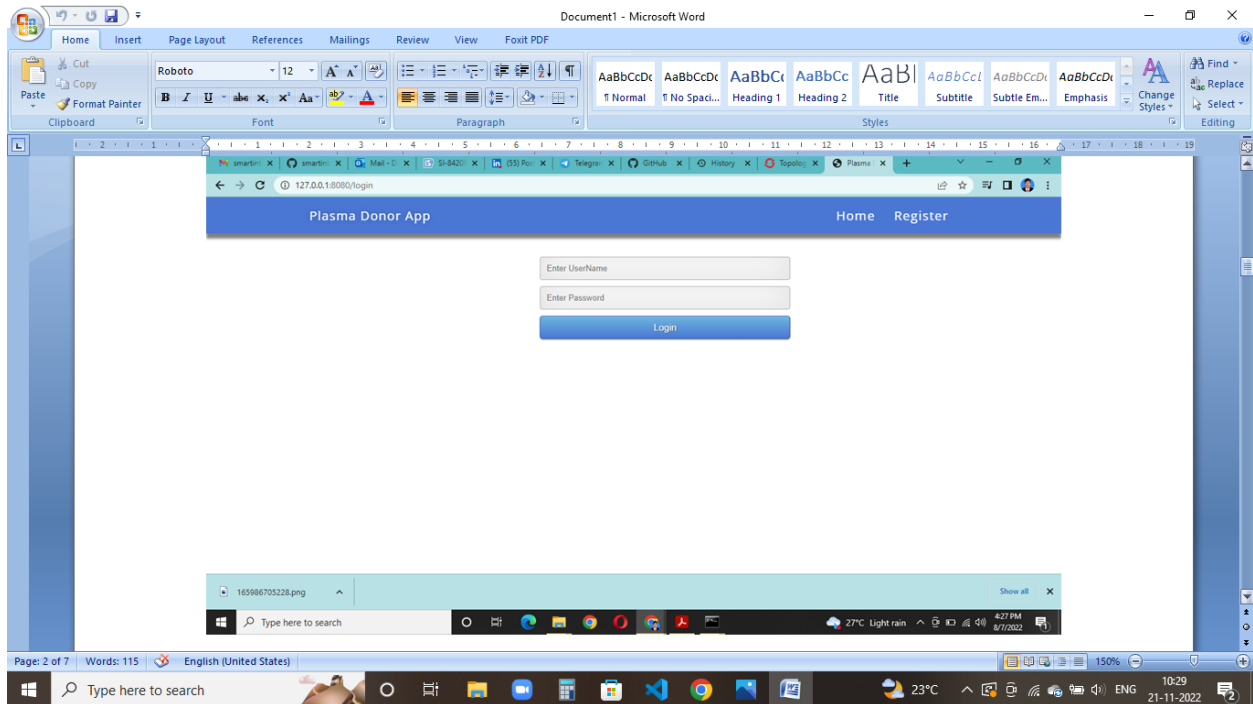
Test Case Analysis:

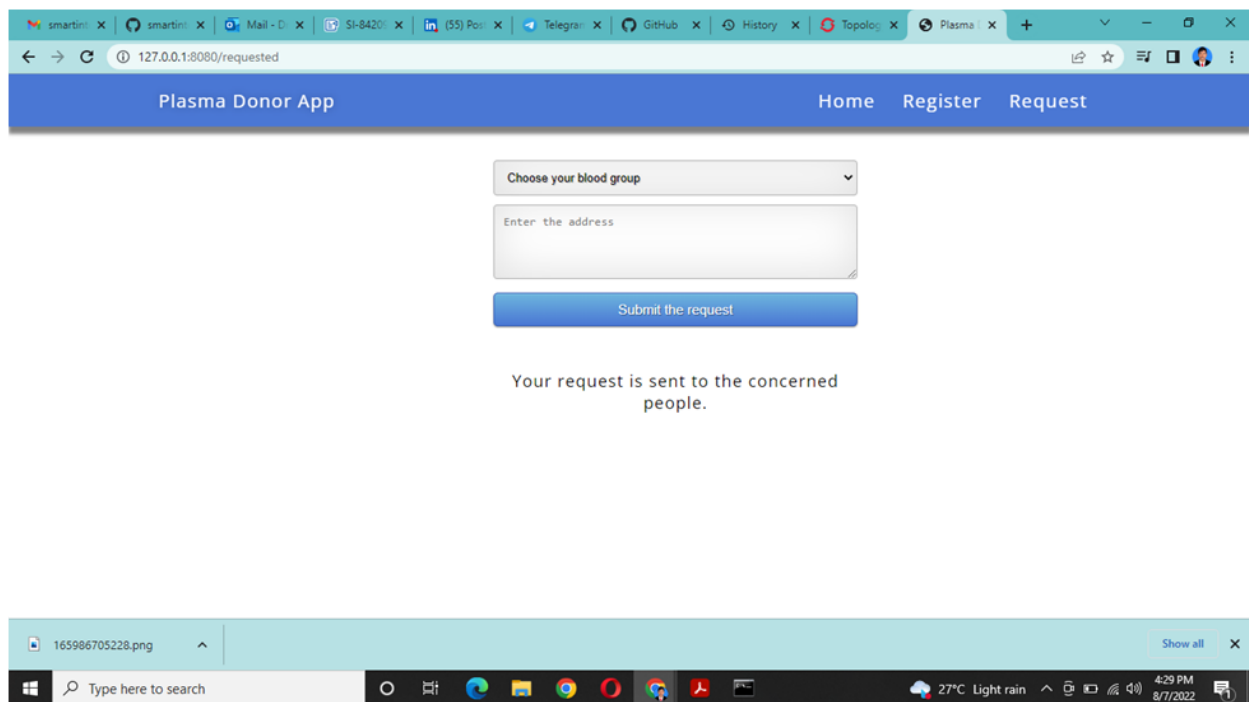
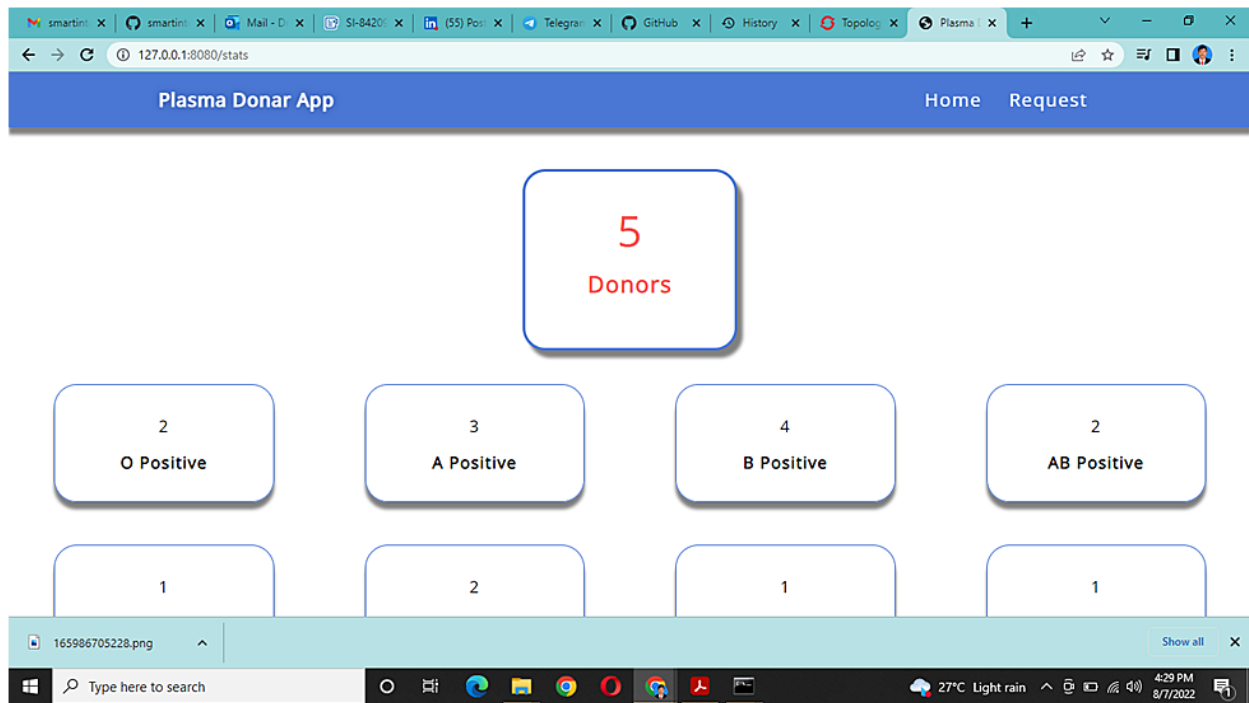
This report shows the number of test cases that have passed, failed, and untested

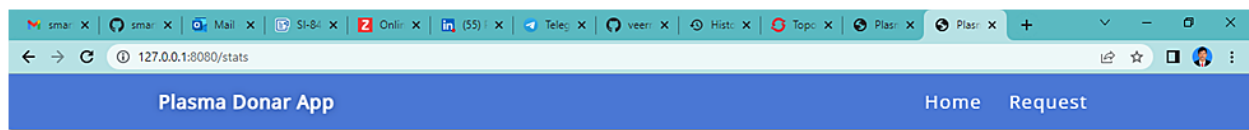
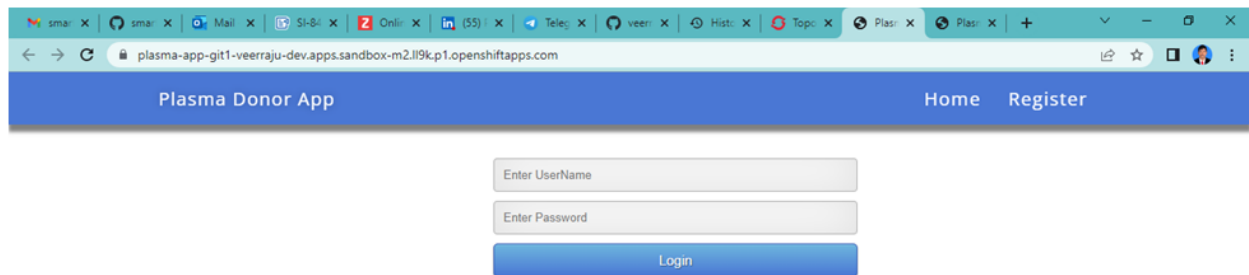
Section	Total Cases	Not Tested	Fail	Pass
Interface	7	0	0	7
Login	43	0	0	43
Logout	2	0	0	2

CHAPTER 9 RESULTS

PERFORMANCE METRICS:







CHAPTER 10

ADVANTAGES & DISADVANTAGES

ADVANTAGES:

- Easy connecting donors and recipients makes blood donation way more proficient.
- Prime motive of the app is to solve the perpetual shortfall of blood donors.
- It connects blood 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 registrations through the mobile app will help getting quick access from both ends.

DISADVANTAGES:

- weakness.
- dizziness.
- feeling faint.
- lightheadedness.
- nausea.
- bleeding from the needle prick.
- bleeding under the skin or bruising.

CHAPTER 11

CONCLUSION

Plasma is a liquid portion of blood; it is a mixture of water, proteins and salts. Antibodies are proteins made by the body in response to an infection. People fully rescued from COVID19 are encouraged to donate plasma, which can help to increase the lifespan of other patients because their plasma contains antigens which helps the affected person to recover faster.

These immunoglobulin give your immune system a way to fight the virus when you are sick, so your plasma can be used to help others fight off illness. Individuals must fully resolve symptoms for at least 14 days prior are eligible to donate.

CHAPTER 12

FUTURE SCOPE

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

One important future scope is availability of location-based blood bank details and extraction of location-based donor's detail, which is very helpful to the acceptant people.

To be able to deposit donated blood into inventory when donations are made. To be able to create, update, delete, and retrieve request records from hospitals to manage hospital requests for blood. To be able to create, update, delete, and query hospital's records in order to manage hospital information.

CHAPTER 13

APPENDIX

SOURCE CODE

GITHUB & PROJECT DEMO LINK:

<https://github.com/IBM-EPBL/IBM-Project-34348-1660234488>

DEMO LINK

<https://www.youtube.com/watch?v=9rRV6TTfxio&t=9s>

