

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. |

References:

The Optimization of Blood Donor Information and Management System by Technopedia P. Priya¹, V. Saranya², S. Shabana³, Kavitha Subramani⁴ Department of Computer Science and Engineering, Panimalar Engineering College, Chennai, India^{1,2,3,4}

[2] MBB: A Life Saving Application Narendra Gupta¹, Ramakant Gawande² and Nikhil thengadi³ 1, 2, 3 Final Year, CSE Dept., JDIET, Yavatmal, India.

[3] AN ANDROID APPLICATION FOR VOLUNTEER BLOOD DONORS by Sultan Turhan.

[4] Arif. M. Sreevas. S. Nafseer. K. and Rahul. R. (2012), 'Automated online Blood bank database', India Conference (INDICON), Annual IEEE, Print ISBN: 978-1- 4673-2270-6, pp. 012 - 017.

[4] Spyropoulos. B., Botsivaly. M., Tzavaras. A., and Spyropoulou, P (2009), 'Towards digital blood-banking', ITU-T Kaleidoscope: Innovations for Digital Inclusions, KIDI.E-ISBN: 978-92- 61-12891-3, Print ISBN: 978- 92-61-12891-3, pp. 1- 8.

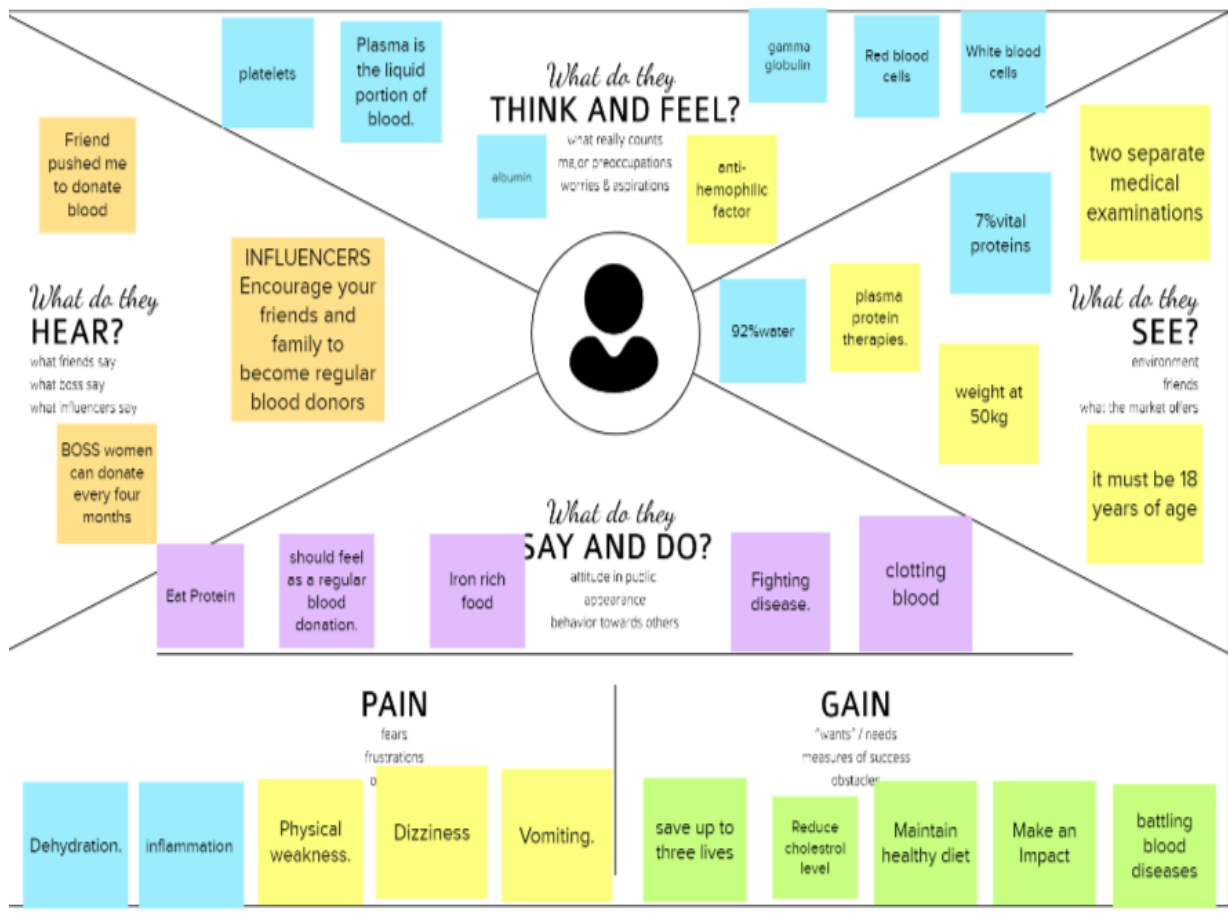
[5] A Survey Paper on E-Blood Bank and an Idea to use on Smartphone Tushar Pandit, Satish Niloor and A.S. Shinde, Dept. of I.T Sinhgad Academy of Engineering, Pune, India

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](#)




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



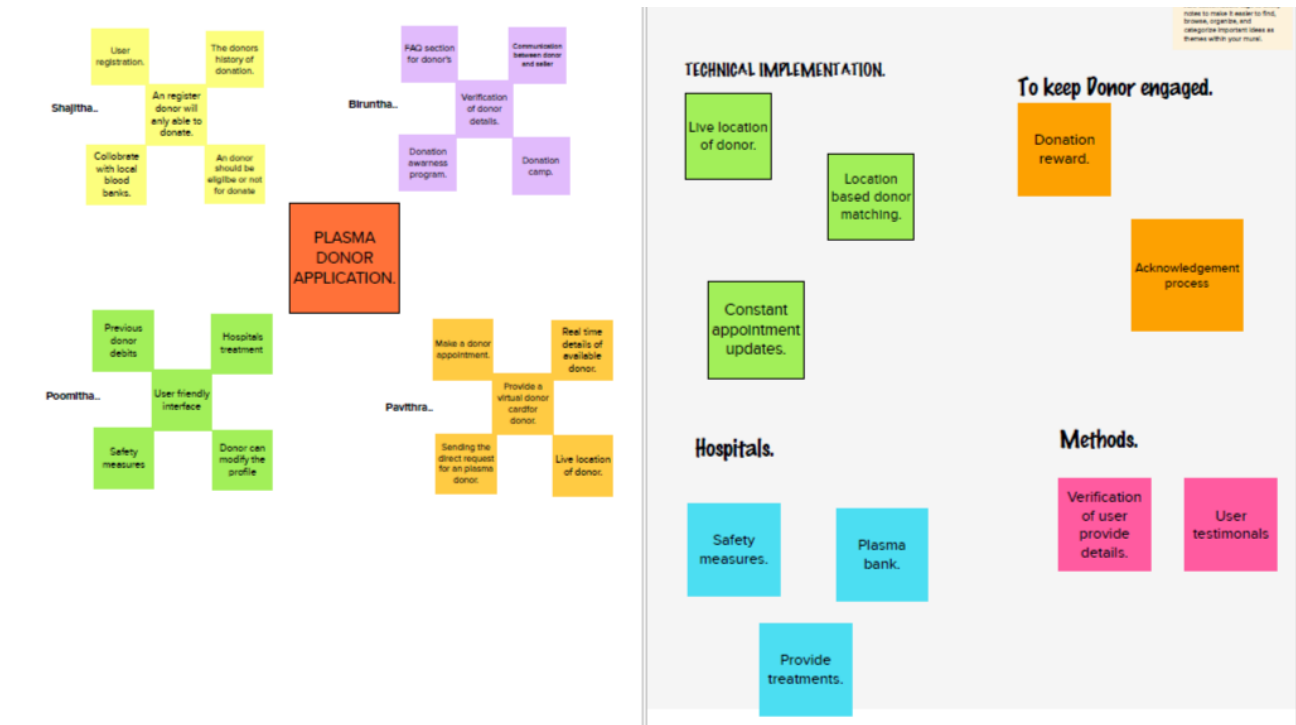


Key rules of brainstorming

To run an smooth and productive session

| | |
|-----------------|-------------------------|
| Stay in topic. | Encourage wild ideas. |
| Defer judgment. | Listen to others. |
| Go for volume. | If possible, be visual. |

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? i.e. on strategy & design. 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. |

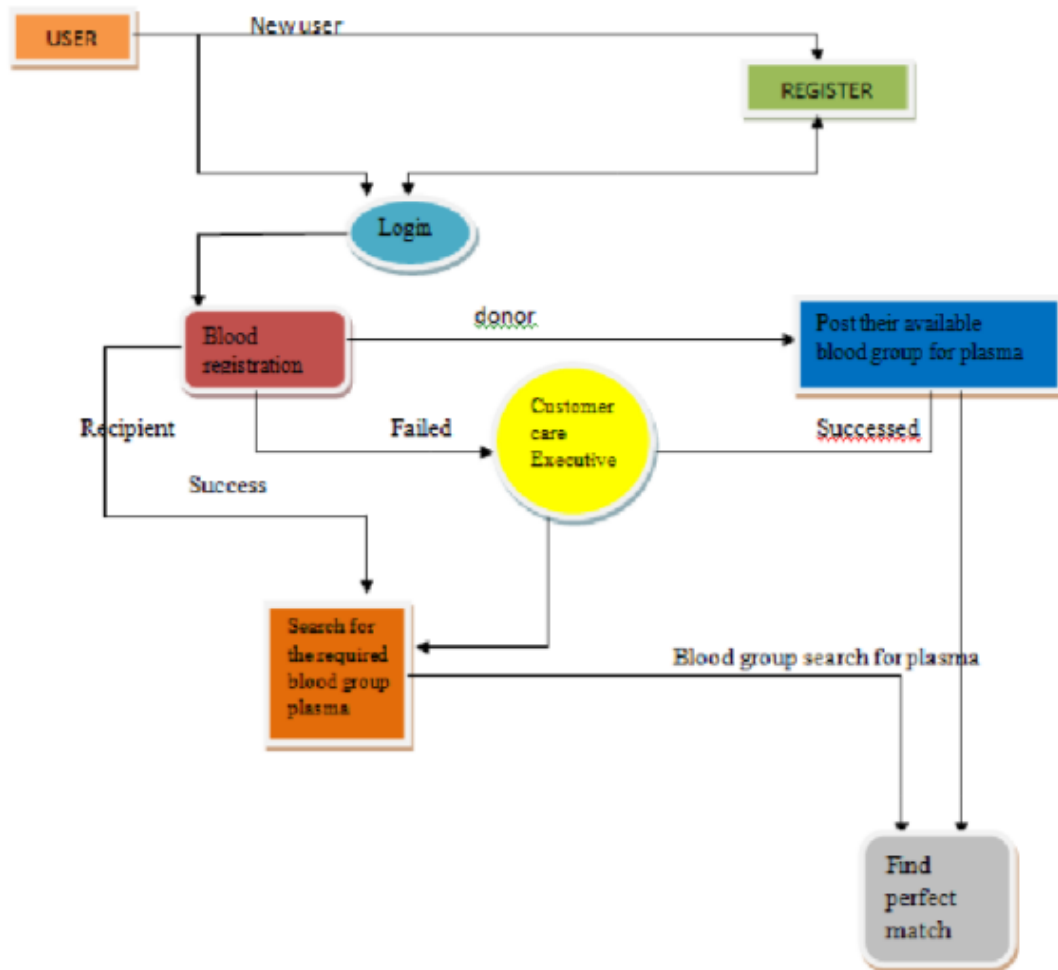
Non-functional Requirements:

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

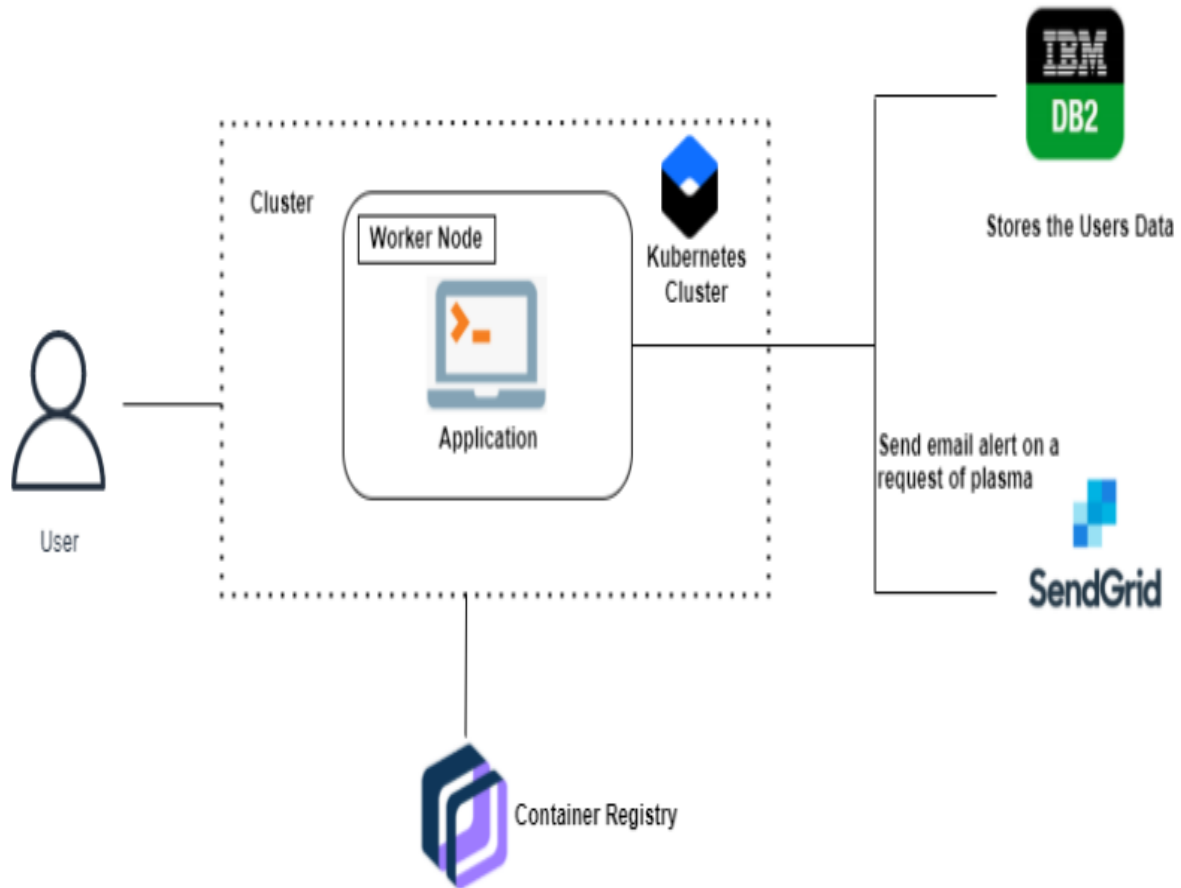
| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Creating an online platform that not just serves strong network between plasma donors and plasma recipients and an User with no understanding of application must be able to interact 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

☐

Name

Schema

Properties

| | | | |
|--------------------------|------|----------|-----|
| <input type="checkbox"/> | USER | KPX66644 | ... |
|--------------------------|------|----------|-----|

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

Tables

New table

Name

Schema

Properties

USER

KPX66644

...

Total: 1, selected: 0

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

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 |

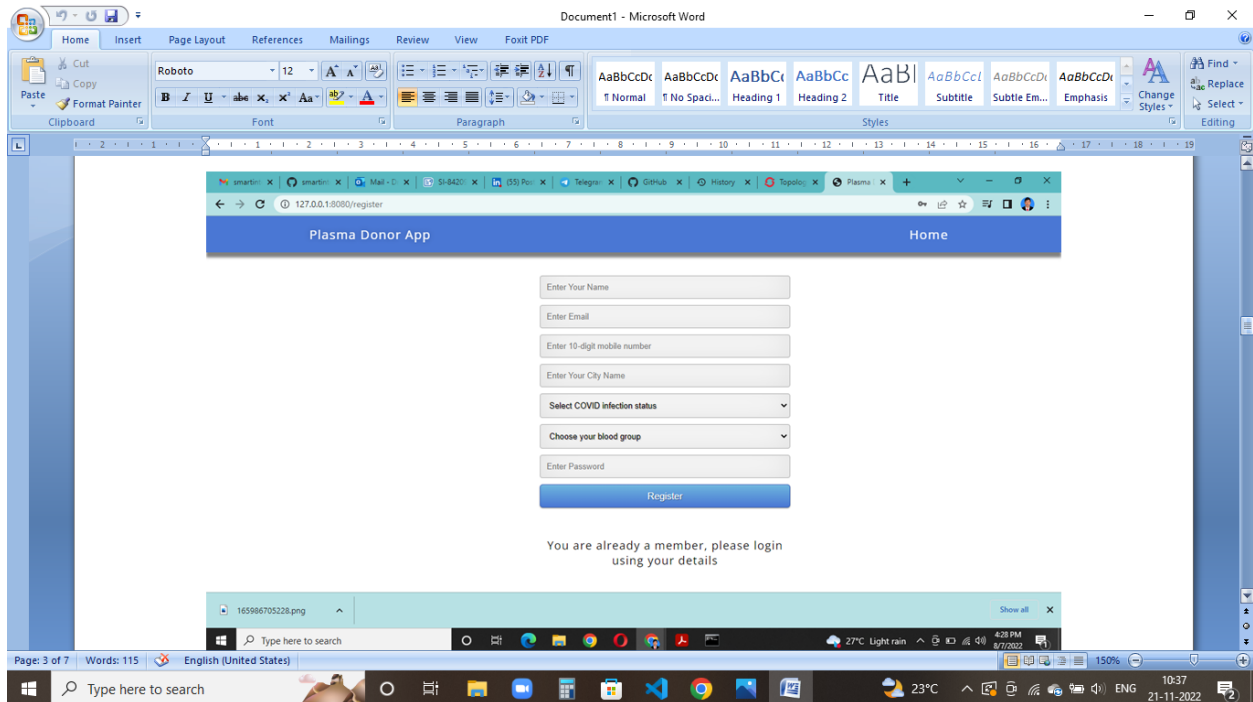
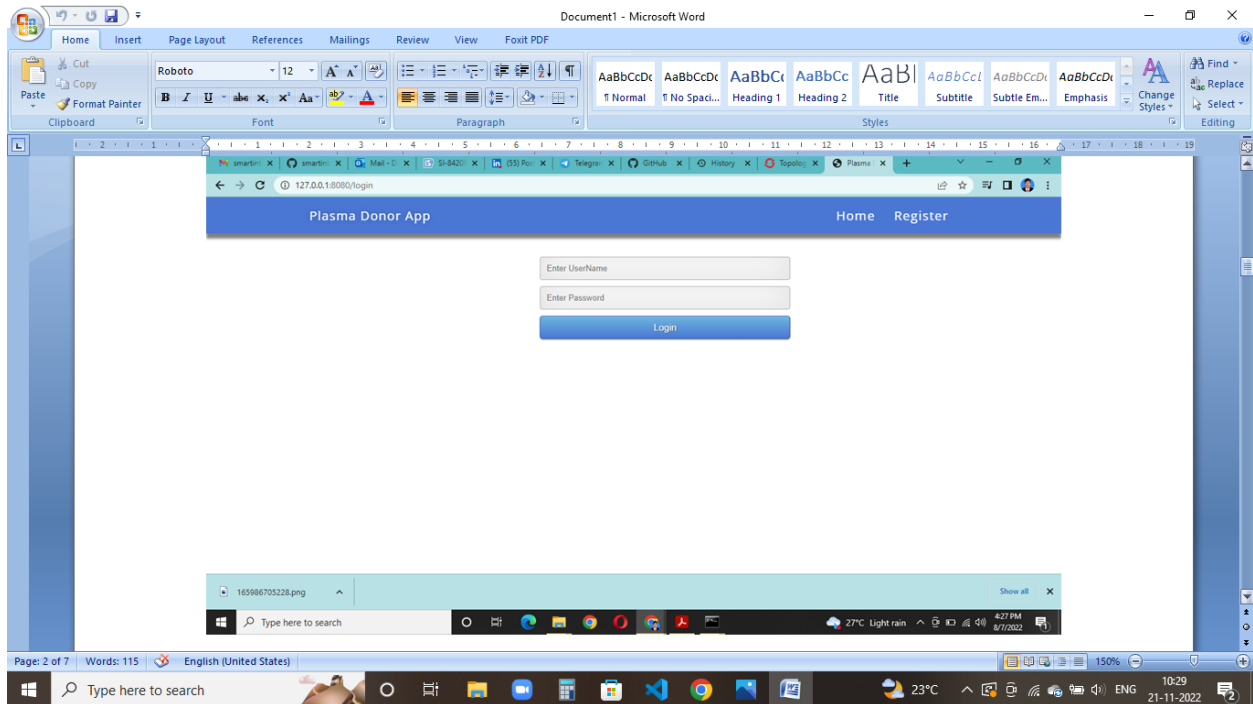
Test Case Analysis:

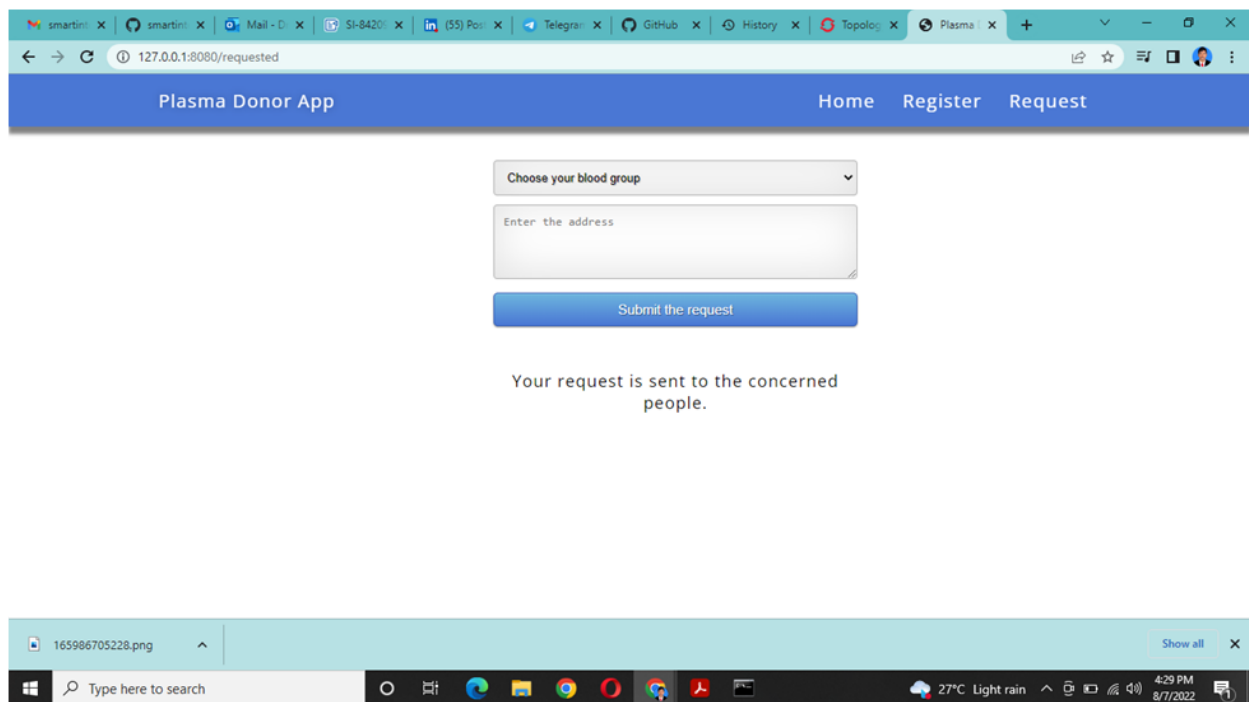
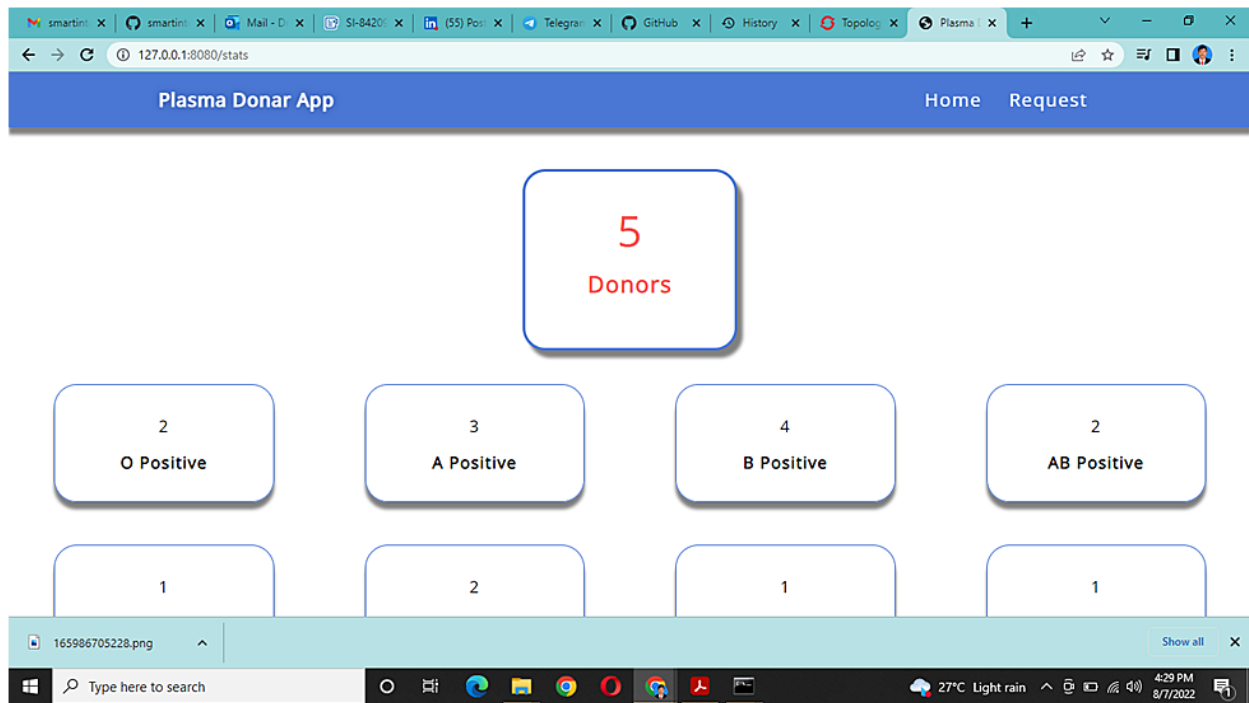
This report shows the number of test cases that have passed, failed, and untested

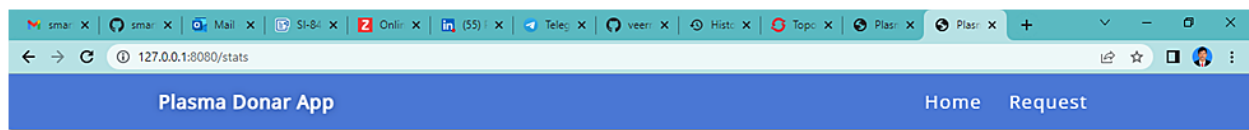
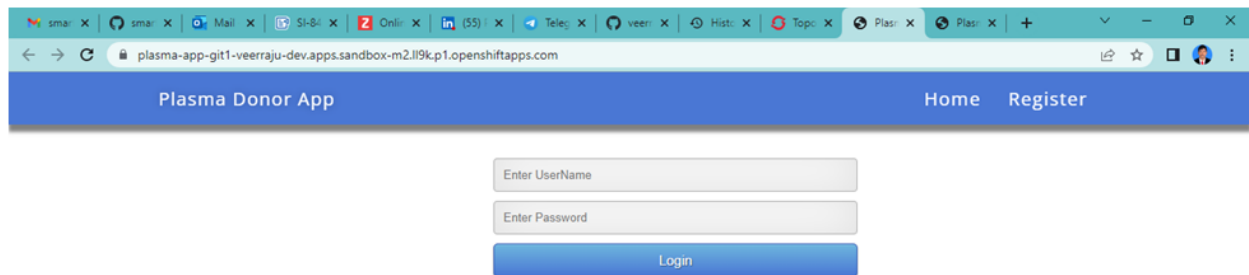
| Section | Total Cases | Not Tested | Fail | Pass |
|-----------|-------------|------------|------|------|
| Interface | 7 | 0 | 0 | 7 |
| Login | 43 | 0 | 0 | 43 |
| Logout | 2 | 0 | 0 | 2 |

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>

