

PROJECT REPORT

TEAM ID : PNT2022TMID40352

PROJECT NAME : PLASMA DONOR APPLICATION

TEAM SIZE : 04

TEAM MEMBER 1 : GOWTHAM I (TEAM LEADER)

TEAM MEMBER 2 : KANISHKAR G

TEAM MEMBER 3 : KIRUBANITHI K

TEAM MEMBER 4 : LOKESH B

1. INTRODUCTION

1.1 Project Overview

- . Plasma plays the critical role of maintaining a healthy blood pressure, blood volume and a proper pH balance.
- . Blood plasma donation are used for slightly more specific purpose than a general blood donation.
- . 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 needy by notifying the current donors list, would be a helping hand.
- . In regard to the problem faced, an application is to be build which would take the donor details, store them and inform them upon a request.

1.2 Purpose

- . Blood plasma donation are used for slightly more specific purpose than a general blood donation.
- . The most common uses of plasma donation include individuals who have experienced has a severe trauma, burn or shock, adults or children with cancer, and people with liver or clotting factor disorders.
- . People around the world are in need of plasma transfusions, convalescent plasma, and medicine made from plasma everyday.
- . Here the donor details can be displayed based on their request.
- . So the user can register or request plasma upon their needs.

2.LITERATURE SURVEY

2.1 Existing problem

. 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 needy by notifying the current donors list, would be a helping hand.

. In regard to the problem faced, an application is to be build which would take the donor details, store them and inform them upon a request.

2.2 References

[1] Preference and features of blood/plasma donation smart phone app: A multicenter mixed- methods study in Riyadh, Saudi Arabia.

[2]Free Blood / Plasma donation mobile application

Article in Journal of Medical Systems – May 2015

[3]M – Health services : Can it be potential mechanism in improving public health system of India?

July 2013 – Indian journal of Community Health 25(3):316-320

2.3 Problem Statement Definition

[1]The aim was to identify the features and preference of a blood donation smart phone app. The top rated feature were the ability to locate the nearest blood center on the map. The preferred method of contract was found to be SMS. Concerns about confidentiality and privacy were raised.

[2]Few of the apps could not be installed and/or accessed. Of those that could be installed; half of them do not require any kind of authentication; a few of them are available in more than one language, etc. There is need for better BD/Plasma apps with more feature in order to increase the number of volunteer donors.

[3]Mobile communication devices often used to this area are mobile phones, tablet, computer for health services, health information and also for affecting emotional states.

3.IDEATION AND PROPOSED SOLUTION

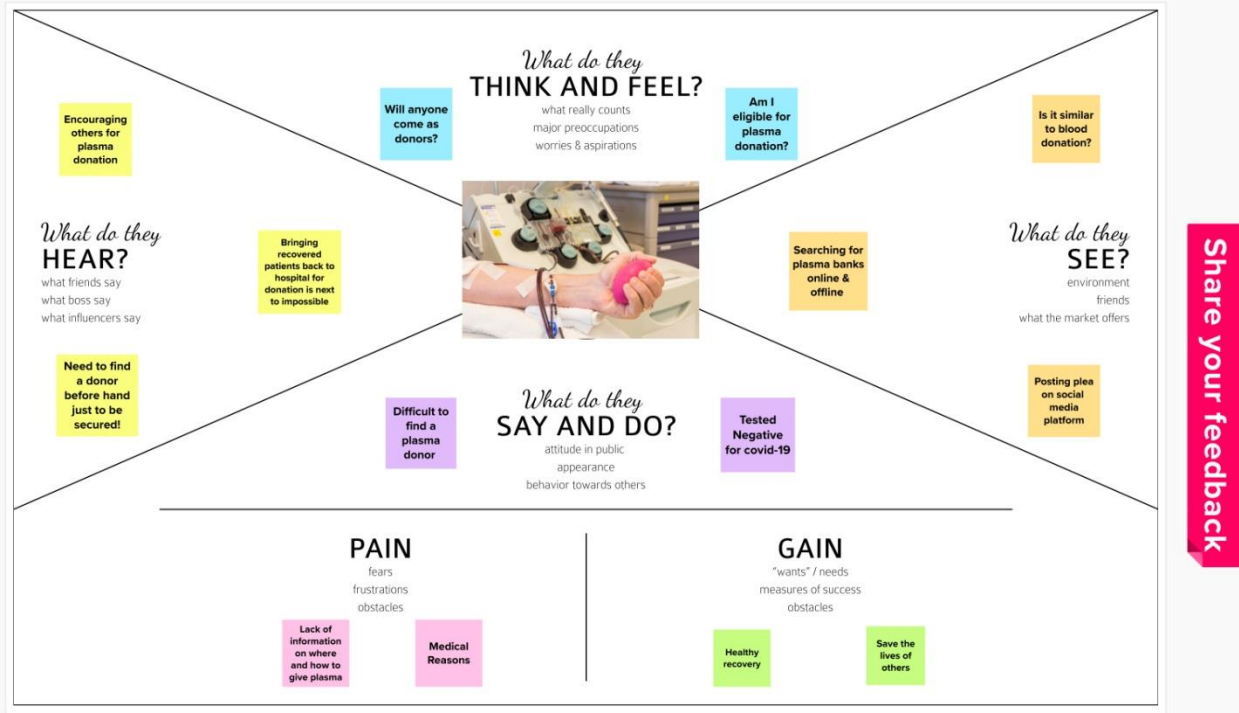
3.1 Empathy Map Canvas

Empathy Map Canvas

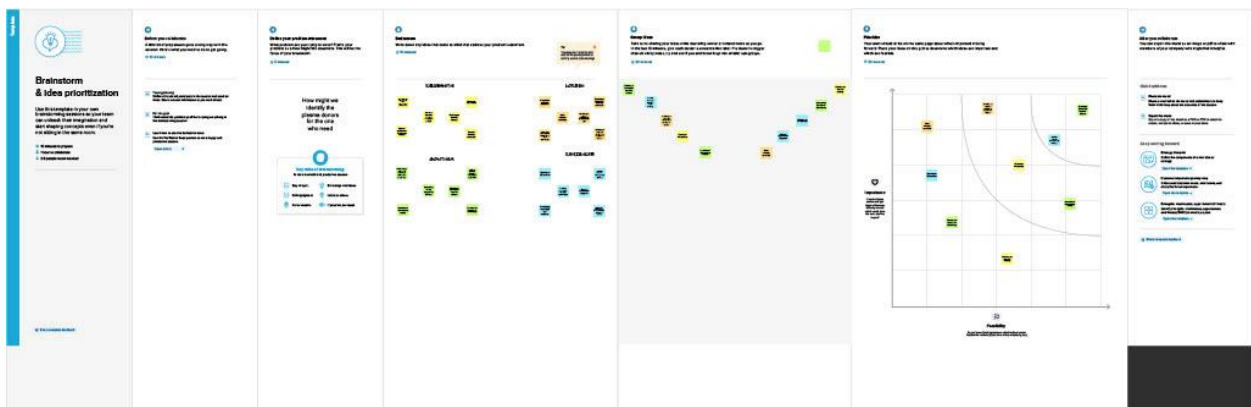
Gain insight and understanding on solving customer problems.

1

Build empathy and keep your focus on the user by putting yourself in their shoes.



3.2 Ideation and Brainstorming



3.3 Proposed Solution

Project Design Phase-I
Proposed Solution Template

Date	26 September 2022
Team ID	PNT2022TMID40352
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">During the COVID-19 crisis the requirement of plasma becomes high priority and the donor count has become low.Saving the donor information and helping the need by notifying the current donors list, would be a helping hand.In regard to the problem faced, an application is to be build which would take the donor details, store them and inform them upon a request.
2.	Idea / Solution description	<ul style="list-style-type: none">Identifying the donors state as active or inactive.Creating a separate dashboard for plasma donors.Notifying the donors when the user request.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">Easy to access the nearby donors.In some circumstances , donors cant able to donate plasma ,in such case donors can select their own state(active or inactive).
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">The biggest benefit of being a plasma donors is the opportunity to save lives.



		<ul style="list-style-type: none"> • Improving helping mind in the society. • In critical condition, user can able to easily identify the donors.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • Placing an advertisement(related to medical) in an application. • Collaborating with hospitals and laboratories to make it profitable.
6.	Scalability of the Solution	<ul style="list-style-type: none"> • Due to improvement and user friendly interface , the doctors can trust the app and very helpful for the doctors to treat the patient at earlier stage.



3.4 Problem Solution Fit

Problem-Solution fit canvas 2.0			Purpose / Vision		
Define CS, fit into CC	1. CUSTOMER SEGMENT(S) CS Who is your customer? i.e. working parents of 0-5 y.o. kids . Providing health care via electronic means (e - health) is a new perspective as regard global health which aims to improve health care service delivery to people. . Likewise Plasma Donor application is a health care service. . One who need Plasma in an emergency or clinical condition are the customers. They request the donors via the Plasma Donor Application.	6. CUSTOMER CONSTRAINTS CC 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. . Lack of knowledge for using an application and e-health. . Network issue is also be a major issue for the customer.	5. AVAILABLE SOLUTIONS AS 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 . Lack of Plasma Donor Application as we compare to Blood Donor Application is the problem faced by the customer. . As Plasma Donor is similar to Blood Donor there will not be separate dashboard for plasma donors and recipient in Blood Donor Application.	Explore AS, differentiate	
	2. JOBS-TO-BE-DONE / PROBLEMS J&P Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. . Problems faced by the customers are they can't access donors at a stimulated time. The details of the donors provided are not up-to-date. . The notifications can't send to the donors based on the user request. . The Donors should update their state as active or inactive for the user convenience. . The location of the donors should be updated. . Privacy of both donor and recipient should be maintained securely.	9. PROBLEM ROOT CAUSE RC 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 requirement of plasma became a high priority and donor count has become low during covid-19 crisis. . This will be a major root cause for the problem exist.	7. BEHAVIOUR BE 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 customer should search for an application or website via the google, play store, etc. . They should search for their respective plasma in an application and request the donor. . Donors will be notified based upon their request via the application.		Focus on J&P, tap into BE, understand RC
3. TRIGGERS TR What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news. . Training the society for the use of e-health service will help customers for an use of Plasma Donor Application . Encouraging people to donate plasma.	10. YOUR SOLUTION SL 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. . Creating an donor state as active or inactive for user convenience. . Saving the donor information and helping the needy by notifying the current donors list. . The location of the donors are added.	8. CHANNELS of BEHAVIOUR CH 8.1 ONLINE What kind of actions do customers take online? Extract online channels from #7 They can easily access the donors in online. 8.2 OFFLINE What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development. They search for their respective donors via the hospital (one-by-one) or clinics.	Extract online & offline CH of BE		
4. EMOTIONS: BEFORE / AFTER EM How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design. BEFORE: They want to search for their respective donors by the hospitals(one by one) or clinics in a critical condition. AFTER : They can easily access the donor via the application.					

Problem-Solution fit canvas is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 license
 Created by Daria Nepriakhina / Amaltama.com

4. REQUIREMENT ANALYSIS

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03 October 2022
Team ID	PNT2022TMID40352
Project Name	Project - PLASMA DONOR APPLICATION
Maximum Marks	4 Marks

FUNCTIONAL REQUIREMENTS :

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form (WebApp)
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Certification	After the donor donates plasma, we will give them a certificate of appreciation and authentication.
FR-4	Statistical data	The availability of plasma is given in the page as stats, which will be helpful for the users.
FR-5	User Plasma Request	Users can request to donate plasma by filling out the request form on the page. Once the request is submitted, they will get an email
FR-6	Searching/reporting requirements	Users can use the search bar to look up information about camps and other topics.
FR-8	Virtual Assistants	A virtual assistant is a software agent that can carry out tasks or provide services on behalf of a person in response to commands or inquiries. When users enter their inquiries, the system will respond with pertinent information about plasma and details of plasma donation.

NON FUNCTIONAL REQUIREMENTS :

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Must have a good looking User friendly interface.
NFR-2	Security	It must be secured with the proper username and password.
NFR-3	Reliability	The system should be made in such a way that it is reliable in its operations and for securing the sensitive details.

NFR-4	Performance	Users should have a proper Internet Connection.
NFR-5	Availability	The system including the online and offline components should be available 24/7.
NFR-6	Scalability	The application has the ability to handle growing numbers of users and load without compromising on performance and causing disruptions to user experience.

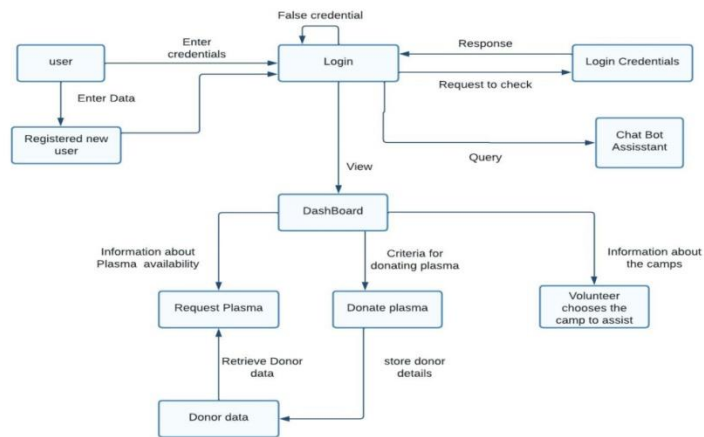
5. PROJECT DESIGN

5.1 Data Flow Diagrams

Project Design Phase-II Data Flow Diagram & User Stories

Date	03 October 2022
Team ID	PNT2022TMID40352
Project Name	Plasma donor application
Maximum Marks	4 Marks

Data Flow Diagrams:



5.2 Solution and Technical Architecture

**Project Design Phase-II
Technology Stack (Architecture & Stack)**

Date	03 October 2022
Team ID	PNT2022TMID40352
Project Name	Plasma donor application
Maximum Marks	4 Marks

Technical Architecture:

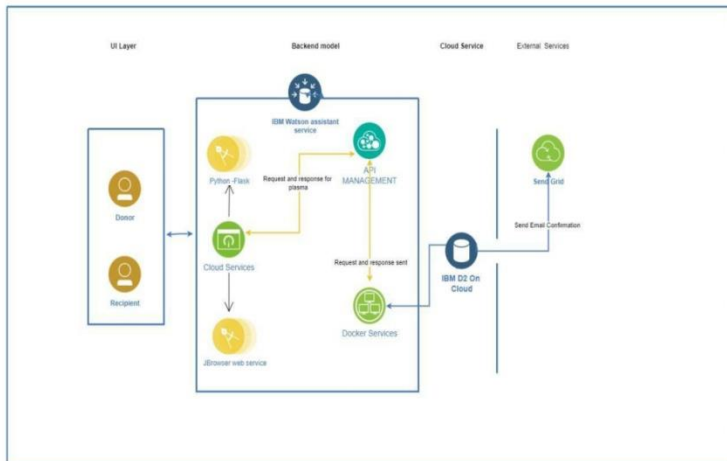


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	<ul style="list-style-type: none">• The user creates an account or registers in the UI.• Goes through the UI and view details	HTML, CSS,Python Flask
2.	Chatbot	<ul style="list-style-type: none">• Used to clarify user queries	IBM Watson Assistant
3.	Data maintenance	For storing,maintaining,modifying and retrieving the user's details	MySQL
4.	Confirmation Email	Sending a confirmation email to users they have registered for donation and to check the availability of plasma	SendGrid
5.	Cloud Database	For storing the appointment ,donation details and user's details	IBM DB2
6.	File Storage	File storage requirements	IBM Block Storage
7.	Infrastructure (Server / Cloud)	To deploy an Application on Local System	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python flask micro framework is used.	Python Flask
2.	Security Implementations	Mandatory Control(MAC) and Kubernetes is used.	SHA-256, Encryptions, IAM Controls, OWASP ,Kubernetes
3.	Scalable Architecture	3-Tier architecture is used.	Web Server-HTML,CSS Application Server-Python Flask Database Server-IBM DB2
4.	Availability	Using Load Balancer to distribute network traffic across servers.	IBM Load Balancer
5.	Performance	Request and respond facility within a second. User-friendly API	IBM Content Delivery Network

5.3 User Stories

User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		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 Gmail	I can receive confirmation notifications through Gmail	Medium	Sprint-1
	Login	USN-4	As a user, I can log into the application by entering email & password	I can access into my User profile and view details in dashboard	High	Sprint-1
	Dashboard	USN-5	As a user, I can send the proper requests to donate and obtain plasma.	I can receive appropriate notifications through email	High	Sprint-1
Customer (Web user)	Login	USN-6	As a user, I can register and log into the application by entering email & password to view the profile	I can access into my User profile and view details in dashboard	High	Sprint-1
	Dashboard	USN-7	As a user, I can send the proper requests to donate and obtain plasma.	I can receive appropriate notifications through email	High	Sprint-1
Customer Care Executive	Application	USN-8	As a customer care executive, I can try to address user's concerns and questions	I can view and address their concerns and questions	Medium	Sprint-2
Administrator	Application	USN-9	As an administrator I can help with user-facing aspects of a website, like its appearance, navigation and use of media.	I can change the appearance and navigation in a user friendly manner	Medium	Sprint-3
		USN-10	As an administrator, I can involve working with the technical side of websites.	I can help with such as troubleshooting issues, setting up web hosts, ensuring users have access and programming servers	Medium	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Chatbot	Dashboard	USN-11	In addition the Customer care executive,chatbot can try to address user's concerns and questions	I can reply to all the queries related to our application	Medium	Sprint-3

6. PROJECT PLANNING AND SCHEDULING

6.1 Sprint Planning and Estimation

Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18 October 2022
Team ID	PNT2022TMID40352
Project Name	Project – Plasma Donor Application
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	GOWTHAM
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	2	High	KANISHKAR
Sprint-1		USN-3	As a user, I can register for the application through Gmail.	1	Medium	KIRUBANITHI
Sprint-2	Login	USN-4	As a user, I can login into the application by entering email & password.	2	High	LOKESH
Sprint-2	Dashboard	USN-5	As a user, I can send the proper request to donate and obtain plasma.	2	High	GOWTHAM
Sprint-2	Login	USN-6	As a user, I can register and login into the application by entering email & password to view the profile.	2	High	KIRUBANITHI
Sprint-3	Dashboard	USN-7	As a user, I can send the proper request to donate and obtain plasma.	2	High	KANISHKAR
Sprint-3	Application	USN-8	As a customer care executive, I can try to address user's concerns and questions.	1	Medium	LOKESH

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

$$AV(\text{Sprint 1}) = 5/6 = 0.8$$

$$AV(\text{Sprint 2}) = 6/6 = 1$$

$$AV(\text{Sprint 3}) = 4/6 = 0.6$$

$$AV(\text{Sprint 4}) = 4/6 = 0.6$$

$$AV(\text{Total}) = 19/24 = 0.8$$

Burndown Chart:

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

← → ↻ pnt2022tmid40352.atlassian.net/jira/software/projects/PDA/boards/1/backlog

Jira Software Your work ▾ Projects ▾ Filters ▾ Dashboards ▾ People ▾ Apps ▾ Create

Plasma Donor Applicat... Software project

PLANNING Roadmap Backlog Board

DEVELOPMENT Code Project pages Add shortcut Project settings

You're in a team-managed project Learn more

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / Plasma Donor Application

Backlog

Search G1 Epic ▾ Insights

▼ PDA Sprint 1 24 Oct – 29 Nov (3 issues) 0 5 0 Complete sprint

- PDA-1 As a user, I can register for the application by enteri... 2 IN PROGRESS G1
- PDA-2 As a user, I will receive confirmation email once I ha... 2 IN PROGRESS G1
- PDA-3 As a user, I can register for the application through ... 1 IN PROGRESS G1

+ Create issue

▼ PDA Sprint 2 Add dates (3 issues) 6 0 0 Start sprint

- PDA-4 As a user, I can login into the application by entering email... 2 TO DO G1
- Can send the proper request to donate and ob... 2 TO DO G1

Quickstart

- ✓ Create a project ▾
- Deliver more often with scrum ▾
- Create an issue ▴

Issues are individual pieces of work that you assign to teammates.

Issues can be tasks or stories.

Show me View issue tutorial

- Invite your teammates ▾

Dismiss Quickstart

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

6.2 Report from JIRA:

The screenshot displays the Jira Software interface for a project named 'Plasma Donor Application'. The main view is the 'PDA Sprint 1' board, which is currently in the 'IN PROGRESS' state. The board shows three issues: PDA-1, PDA-2, and PDA-3. PDA-1 and PDA-2 are in the 'DONE' column, while PDA-3 is in the 'IN PROGRESS' column. The interface includes a sidebar with navigation options like Roadmap, Backlog, Board, and Code. A 'Quickstart' panel is visible on the right, and the Windows taskbar is at the bottom.

Project: Plasma Donor Application

Sprint: PDA Sprint 1

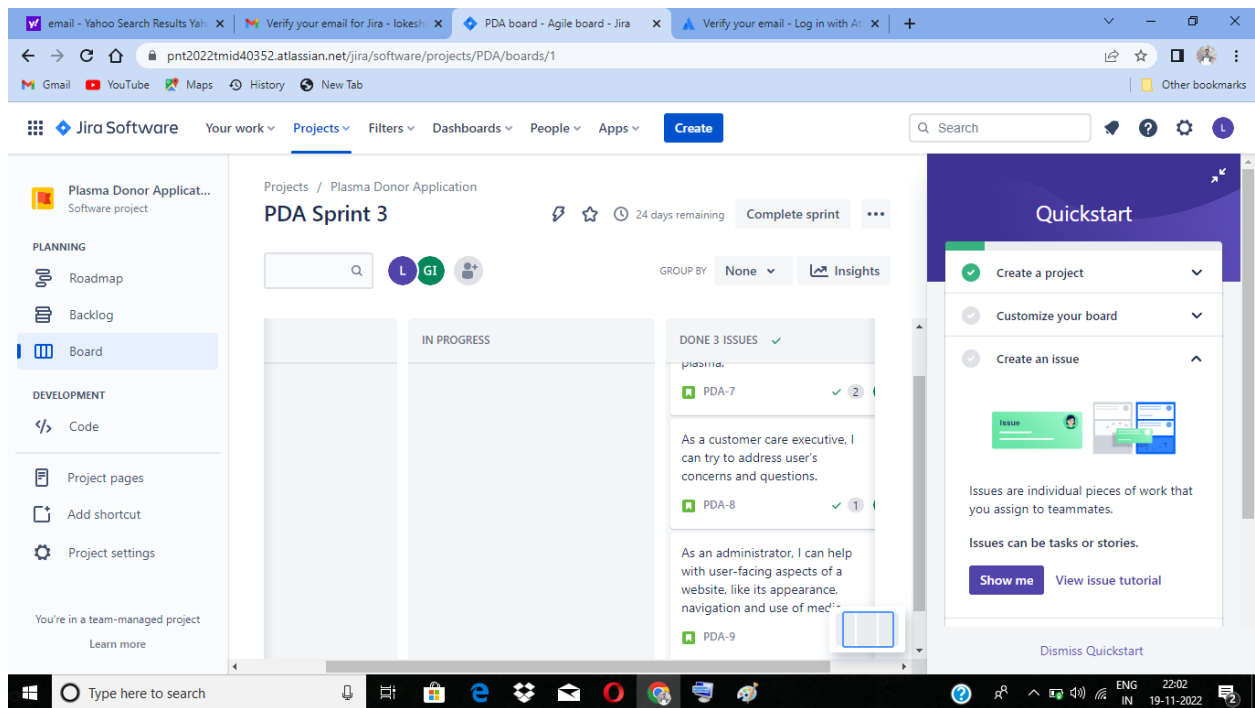
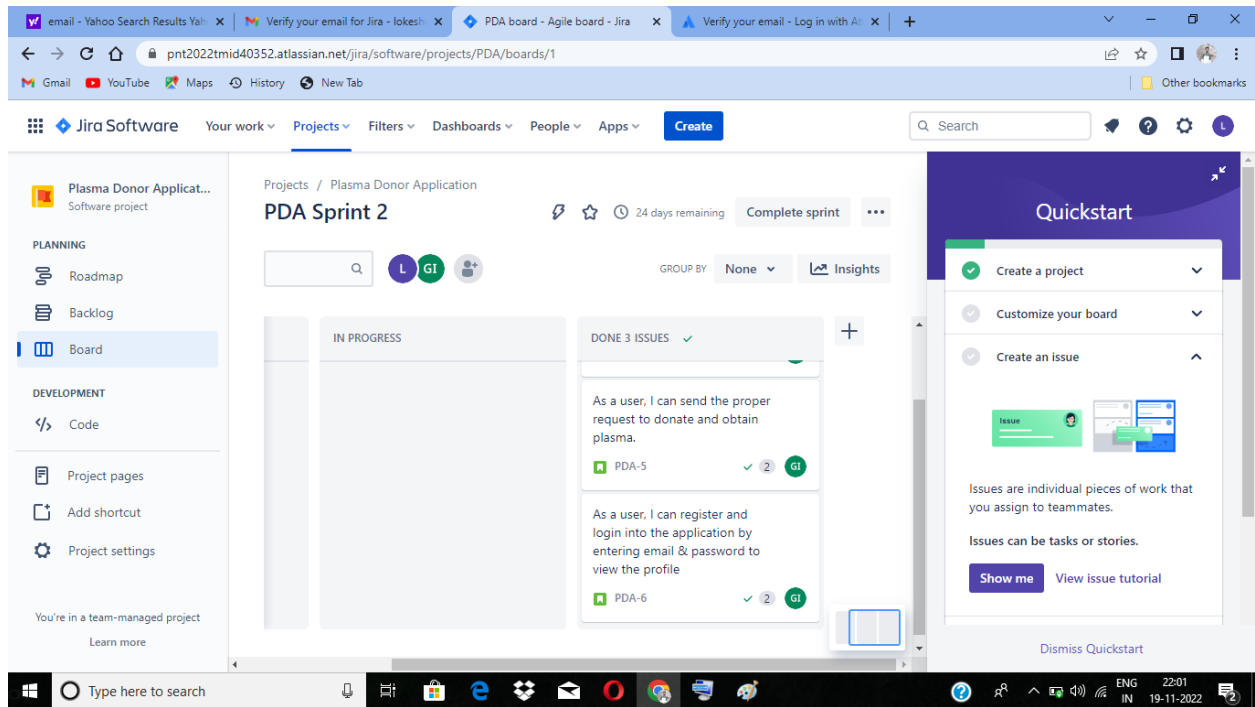
Status: IN PROGRESS

Issues:

- PDA-1: As a user, I will receive confirmation email once I have registered for the application. (Status: DONE)
- PDA-2: As a user, I can register for the application through Gmail. (Status: DONE)
- PDA-3: (Status: IN PROGRESS)

Quickstart Panel:

- Create a project
- Customize your board
- Set up your Jira team-managed board
- Visualize, track and manage your team's work on the board by configuring columns that represent your team's workflow.
- Show me
- See training courses



7. CODING AND SOLUTIONING

7.1 Feature 1 : register.jsp

```
<%@ page
language="java"
contentType="text/html;
charset=UTF-8"
```

```

        pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Show details</title>
</head>
<body background="blood.jpg" >
    <h1>
        <center>
            <b> ENTER YOUR DETAILS</b>
        </center>
    </h1>
    <form action="insert.jsp" method="get">
        <center>
            Enter your id : <input type="text" name="id"> <br><br><br>
            Enter your name :      <input type="text"
name="name"><br><br><br>
            Enter your age :      <input type="text"
name="age"><br><br><br>
            Enter your address:    <input type="text"
name="address"><br><br><br>
            Enter your phone NO:  <input
type="text" name="phone"><br><br><br>
            Enter your Email
            <input type="text" name="email"><br><br><br>
            Enter your Blood
group: <input type="text" name="blood">      <br><br><br>
            <input
type="submit" value="insert"></input><br><br><br>
        </center>
    </form>
</body>
</html>

```

7.2 Feature 2 : secound.html

```

<!DOCTYPE
html>
    <html>
        <head>
            <title>Registration</title>
        </head>
        <body background="aaa.jpg">

```

```
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<br>
<center>
<p><h3>1.If you like to donate click here:</h3></p>
<a href="register.jsp">
<button><h2>REGISTRATION</h2></button>
</a>
<br>
<br>
<br>
<p><h3>2.If you want plasma click here:</h3></p>
<a href="request.jsp">
<button><h2>      REQUEST PLASMA    </h2></button>
</a>
</center>
</body>
</html>
```

8. TESTING

8.1 Test case

8.2 User Acceptance Testing :

**Acceptance Testing
UAT Execution & Report Submission**

Date	03 November 2022
Team ID	PNT2022TMID40352
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

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	Severity1	Severity2	Severity3	Severity4	Subtotal
By Design	10	4	2	4	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	18	10	07	16	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

ExceptionReporting	9	0	0	9
FinalReportOutput	9	0	0	9
VersionControl	1	0	0	1

9. RESULTS

9.1 Performance Metrics

			NFT - Risk Assessment						
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volumen Changes	Risk Score	Justification
	Plasma 1 Donor	New	Low	No Changes	Moderate		>5 to 10%	ORANGE	As we have seen the chnages
			NFT - Detailed Test Plan						
			S.No	Project Overview	NFT Test approach	Assumptions/Dependencies/Risks	Approvals/SignOff		
				Plasma 1 Donor					
			End Of Test Report						
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff	

10. ADVANTAGES

- . Users can able to search their respective plasma.
- . The user can request or donate plasma as per their need.
- . The user don't need to search their plasma in clinics or laboratories.
- . The knowledge in e-health service is developed.

DISADVANTAGES

- . The lack of e-health service in society.
- . The people should be motivated to donate plasma.

11. CONCLUSION

- . It provides a reliable platform to connect local plasma donors with patients.
- . It create a communication channel through authenticated clinics whenever a patient needs plasma donation.
- . It is a useful tool to find compatible plasma donors who can receive plasma request posts in their local area.
- . Clinics can use this application to maintain the plasma donation activity.
- . We can use this application for blood donation.

12. FUTURE 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.

13. APPENDIX

Source Code

Index.html :

```
<!DOCTYPE
html>

    <html>
    <head>
    <meta charset="UTF-8">
    <title>welcome</title>
    </head>
    <body background="index.webp">
        </h1>
        <h1>
            <center>WELCOME</center>
        </h1>
        <p align="right">
            <a href="https://indianhelpline.com/Plasma-Helpline/">
                <button>Help</button>
            </a> <br>
        <h2>PLASMA</h2>
        <p>Plasma is the liquid component of a blood that contributes to
            55% of your blood's total volume.</p>
        <p>Plasma is necessary to help your body recover from injury,
            distribute nutrients, remove waste</p>
        <p>and prevent infection, while moving throughout your circulatory
            system.</p>
        <br>
        <h2>How do I donate plasma?</h2>
        <p>There are two ways that you can donate plasma:
        <h4>1.Donating whole blood:</h4>
        <P>A healthcare provider places a needle in a vein in your arm and
            withdraws blood. Later, a laboratory will separate plasma as needed.</P>
        </p>
        <h4>2.Donating plasma only (plasmapheresis):</h4>
        <p>
            Similar to having whole blood removed, a healthcare provider will
            place a needle in a vein in your arm to withdraw blood.<br> That
            blood enters a centrifuge machine that spins it and separates the
            plasma from the blood cells and platelets.
        </P>
        The machine removes the separated plasma and returns your remaining
```

```

blood components into your body in a saltwater (saline) solution.
</p>
<p>
    After removing plasma from your body, the lab freezes your donated
    plasma within 24 hours of removing it to preserve clotting factors and
    immunoglobulins. Frozen plasma has<br> a shelf life of one year.
</p>
<p>Plasma from donors with an AB blood type is preferred because it
    does not have antibodies in it and can be given to any blood type
    recipient, but anyone can donate.</p>
<br>
<h2>What are the symptoms of plasma disorders?</h2>
<P>Symptoms of plasma conditions include :</P>
<ul>
    <li>Bone pain.</li>
    <li>Bruising and/or bleeding easily.</li>
    <li>Heart palpitations (arrhythmia).</li>
    <li>Pain in your hands and wrist (carpal tunnel syndrome).</li>
    <li>Weakened immune system.</li>
</ul>
<br>
<h2>What tests check the health of my body's plasma?</h2>
<p>There are several tests to check the health of your plasma:</p>
<ul>
    <li>Blood volume test: Measures the amount of blood in your body</li>
    <li>Bone marrow biopsy: Your healthcare provider removes a sample<br>
        of your bone marrow to test for abnormal plasma cells
    </li>
    <li>Complete blood count test: Provides information about your
        blood and overall health.</li>
    <li>Plasma protein test: Identifies the amount of all plasma
        proteins in your blood.</li>
</ul>
<br>
<br>
<center>
    <a href="secount.html">
        <button>Next</button>
    </a>
</center>
</h3>
</body>
</html>

```

Secount.html :

```

<!DOCTYPE
html>

<html>
  <head>
    <title>Registration</title>
  </head>
  <body background="aaa.jpg">
    <br>
    <br>
    <br>
    <br>
    <br>
    <br>
    <br>
    <br>
    <center>
      <p><h3>1.If you like to donate click here:</h3></p>
      <a href="register.jsp">
        <button><h2>REGISTRATION</h2></button>
      </a>
      <br>
      <br>
      <br>
      <p><h3>2.If you want plasma click here:</h3></p>
      <a href="request.jsp">
        <button><h2>      REQUEST PLASMA    </h2></button>
      </a>
    </center>
  </body>
</html>

```

Insert.jsp :

```

<%@ page
language="java"
contentType="text/html;
charset=UTF-8"

        pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>delete</title>
</head>
<body>

```

```

<form method="post">
    <CENTER>
        <h1>your details</h1>
    </CENTER>
    <%
        try {
            int id =
Integer.parseInt(request.getParameter("id"));
            String name = request.getParameter("name");
            int age =
Integer.parseInt(request.getParameter("age"));
            String address = request.getParameter("address");

            String phone = request.getParameter("phone");
            String email = request.getParameter("email");
            String blood = request.getParameter("blood");
            Class.forName("com.mysql.cj.jdbc.Driver");
            String jdbcUrl =
"jdbc:mysql://localhost:3306/blood";
            String username = "root";
            String password = "bala8989";
            String sql = "insert into blood_table (id , name ,
age, address,phone ,email ,blood )" + "values (?, ?, ?, ?, ?, ?)";
            Connection conn =
DriverManager.getConnection(jdbcUrl, username, password);
            // create the mysql insert preparedstatement
            PreparedStatement Stmt =
conn.prepareStatement(sql);
            Stmt.setInt(1, id);
            Stmt.setString(2, name);
            Stmt.setInt(3, age);
            Stmt.setString(4, address);

            Stmt.setString(5, phone);
            Stmt.setString(6, email);
            Stmt.setString(7, blood);
            // execute the preparedstatement
            Stmt.execute();
            conn.close();
            out.println("Record insert successfully");
        }
        catch (SQLException e) {
            e.printStackTrace();
        }
    %>
<br>

```

```

                <center>
                    <a href="secount.html"><h3>home</h3></a>
                </center>
            </form>
        </body>
    </html>

```

Register.jsp :

```

<%@ page
language="java"
contentType="text/html;
charset=UTF-8"

    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Show details</title>
</head>
<body background="blood.jpg" >
    <h1>
        <center>
            <b> ENTER YOUR DETAILS</b>
        </center>
    </h1>
    <form action="insert.jsp" method="get">
        <center>

            Enter your id : <input type="text" name="id"> <br><br><br>
            Enter your name :      <input type="text"
name="name"><br><br><br>
            Enter your age :      <input type="text"
name="age"><br><br><br>
            Enter your address:    <input type="text"
name="address"><br><br><br>
            Enter your phone NO:  <input
type="text" name="phone"><br><br><br>
            Enter your Email
            <input type="text" name="email"><br><br><br>
            Enter your Blood
group: <input type="text" name="blood">      <br><br><br>

            <input
type="submit" value="insert"></input><br><br><br>
        </center>
    </form>

```

```

        </form>
    </body>
</html>

```

Request.jsp :

```

<%@ page
language="java"
contentType="text/html;
charset=UTF-8"

    pageEncoding="UTF-8"%>
    <%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>show.com</title>
</head>
<body >
<form method="post">
<CENTER><h1>Donor Details</h1></CENTER>
<%
try
{
Class.forName("com.mysql.cj.jdbc.Driver");
String url="jdbc:mysql://localhost:3306/blood";
String username="root";
String password="bala8989";
String query="select * from blood_table";
Connection conn=DriverManager.getConnection(url, username, password);
Statement stmt=conn.createStatement();
ResultSet rs=stmt.executeQuery(query);
while(rs.next())
{
%>
<center>

        <table border="1" >
            <tr>
                <th>id</th>
                <th>name</th>
                <th>age</th>
                <th>address</th>
                <th>phone</th>
                <th>email</th>
                <th>blood</th>
            </tr>

```



```

        <tr>
            <td><%=rs.getInt(1)%></td>
            <td><%=rs.getString(2)%></td>
            <td><%=rs.getInt(3)%></td>
            <td><%=rs.getString(4)%></td>

            <td><%=rs.getString(5)%></td>
            <td><%=rs.getString(6)%></td>
            <td><%=rs.getString(7)%></td>
        </tr>
    </table>
</center>
<%
}
%>
<%
rs.close();
stmt.close();
conn.close();
}
catch(Exception e)
{
e.printStackTrace();
}
%>
<br><center>
<a href="secount.html"><h3>home</h3></a>
</center>
</form>
</body>
</html>

```

Project Demo Link :

<https://youtu.be/FPbE5ZZGQcM>

GitHub :

<https://github.com/IBM-EPBL/IBM-Project-48268-1660806182>

