Project Report

Plasma Donor Application

1. **INTRODUCTION**
    a. Project Overview

In this project we are preparing a cloud application in which the customers can get the details of the donor which was stored in the cloud before. Our project was a done in a secured cloud-based project in which the details can't be taken by others who are not authorized.

    b. Purpose

Here our application can show all the details of the donor and it makes easy to select the donor who is fit for our type. The main purpose for preparing this application was to make the donation process fast and clean

2. **LITERATURE SURVEY**
    a. Existing problem

A patient in need of blood plasma was trying to contact a donor to help him with blood plasma, but he cannot find one easily as it takes long time and hardly possible. Because the donors are far away from him and they are not ready for him. This can make him feel disheartened and Anger.

    b. References

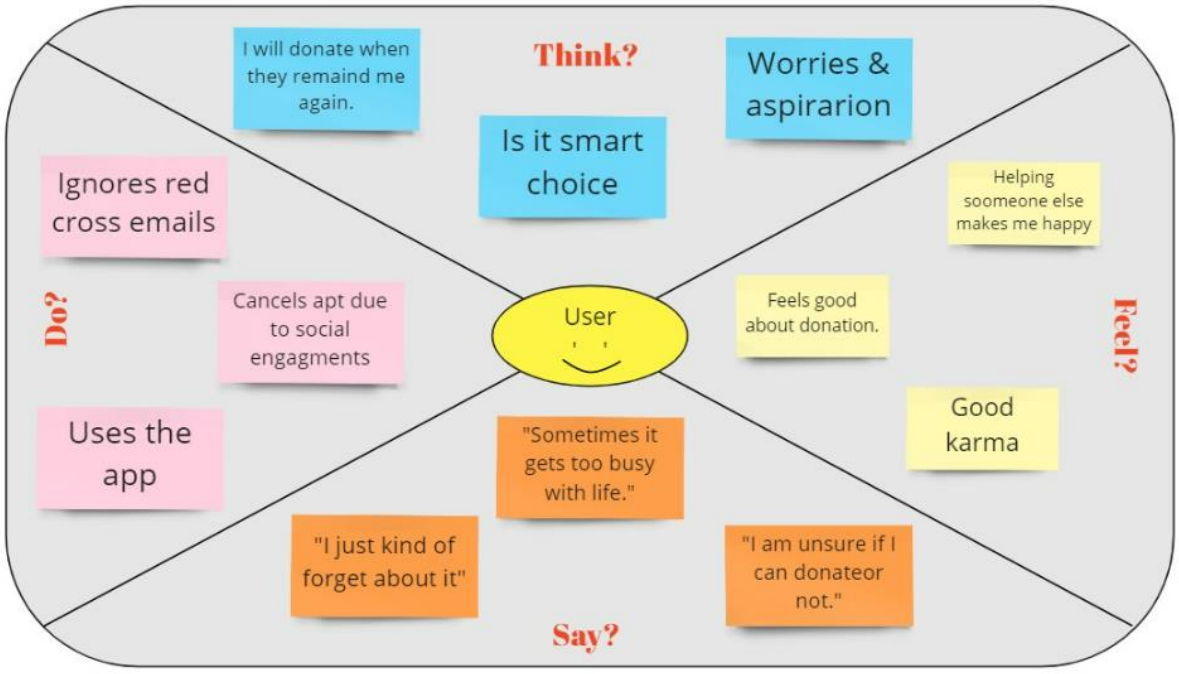
By collecting the data from google and asking hospital management help me in this reference.

    c. Problem Statement Definition

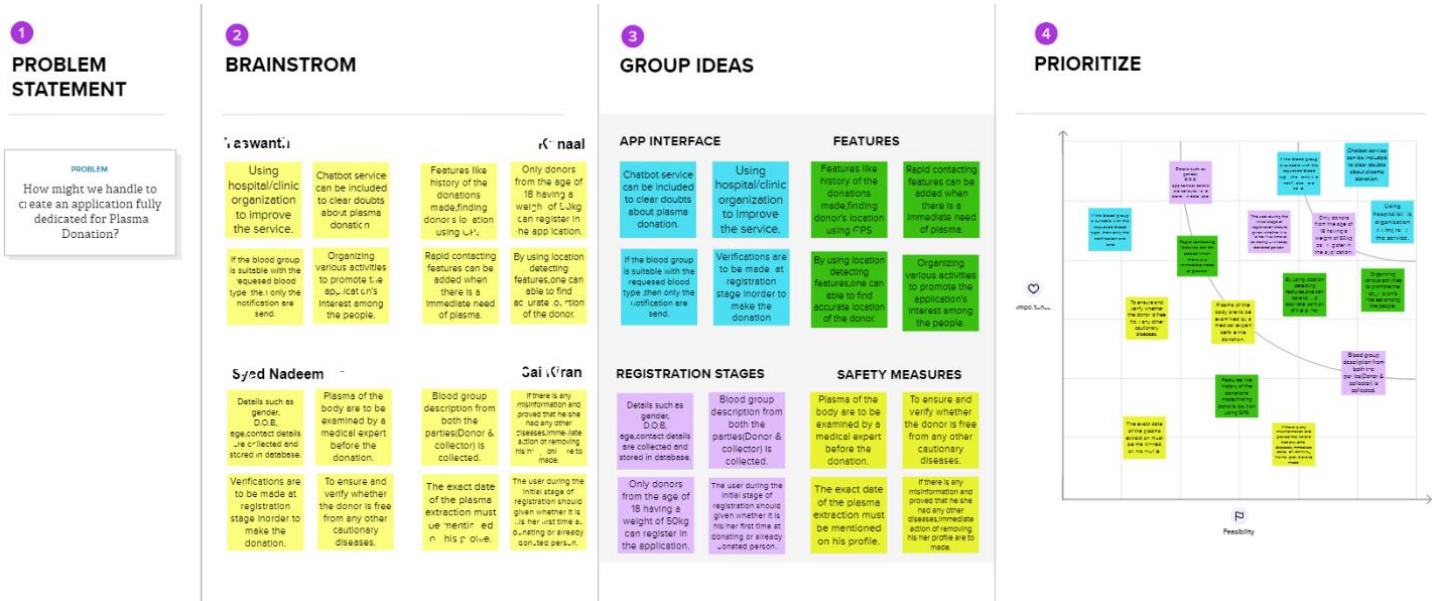
A problem statement is a concise description of the problem or issues a project seeks to address. The problem statement identifies the current state, the desired future state and any gaps between the two. A problem statement is an important communication tool that can help ensure everyone working on a project knows what the problem they need to address is and why the project is important.

3. **IDEATION & PROPOSED SOLUTION**

a. Empathy Map Canvas

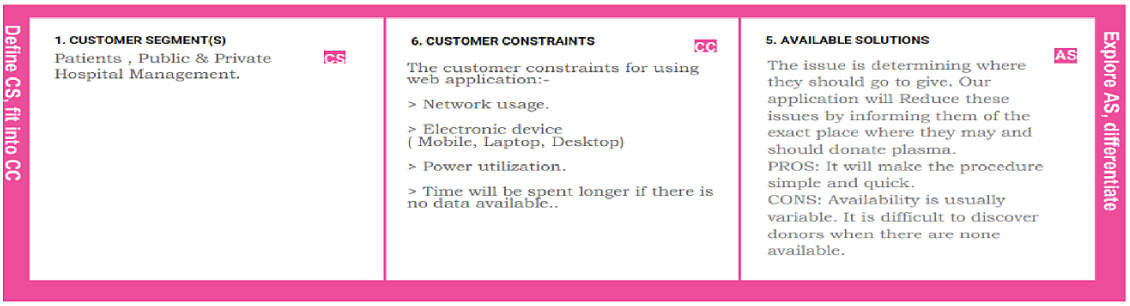


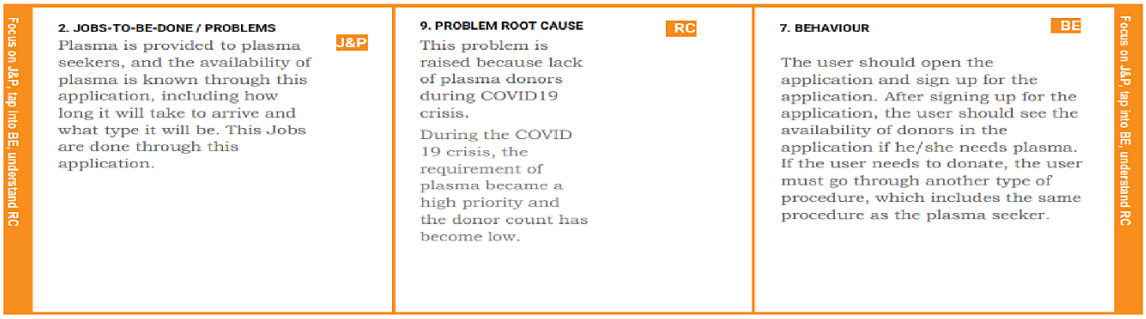
b. Ideation & Brainstorming

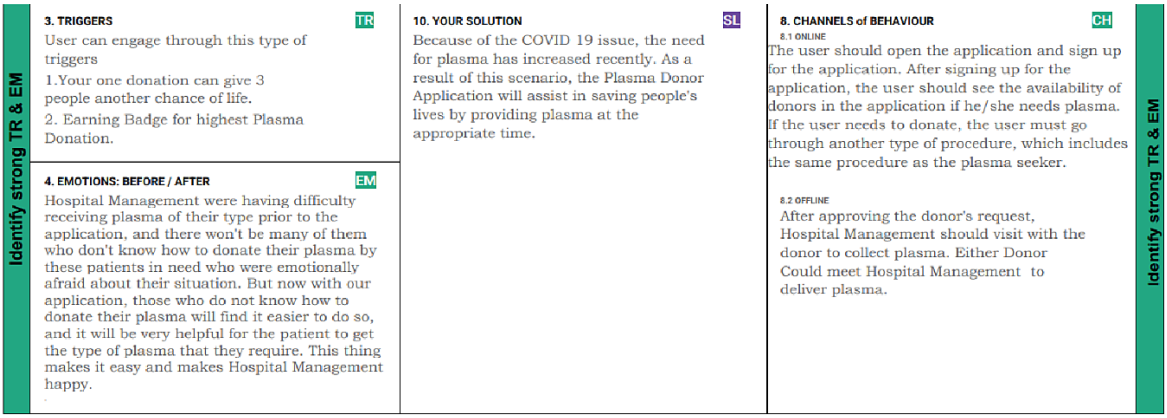


S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The problem is to make the donors and to tell how can he make donations.
2.	Idea / Solution description	The solution is to create an app that stores the data of the donors and that app makes a platform where donor patient and hospital management can contact each other, which makes the process easy.
3.	Novelty / Uniqueness	Our application is not only for hospital management it can also be used by patients and donors thought they can't access every data about patients.
4.	Social Impact / Customer Satisfaction	We made this application to make the customer satisfied by reducing there making his/her process and time taken by them.
5.	Business Model (Revenue Model)	Our application generates revenue from hospital management users, and By advertisements.
6.	Scalability of the Solution	The data which will be uploaded by the donor or hospital will be less in size by compressing it.so, the server can handle so much data of lakhs of users so the scalability won't be a problem.

d. Problem Solution fit







4. REQUIREMENT ANALYSIS

a. Functional requirement

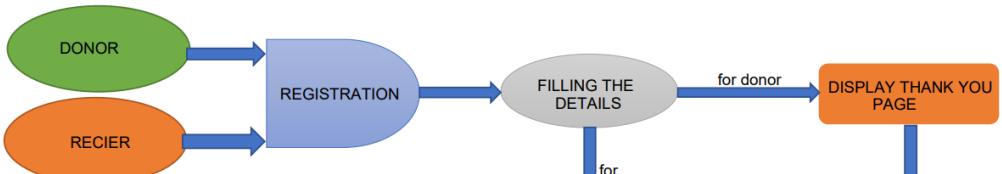
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through website (or) application.
FR-2	User Confirmation	Confirmation via Email by sending verification code to mail.
FR-3	User Login	Login through registered email id.
FR-4	Send Request	Plasma donor will receive a notification whenever the receiver requests.
FR-5	Contact Donor	If it is emergency hospital management can contact the donor directly.

b. Non-Functional requirements

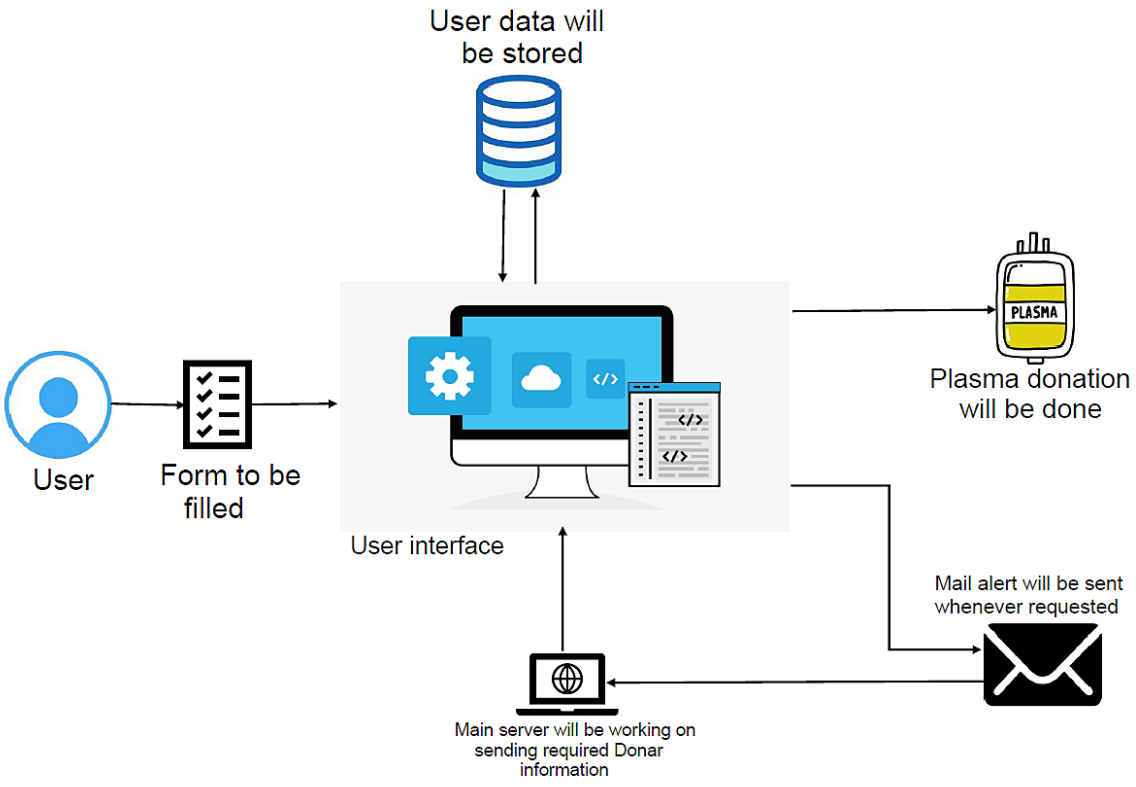
NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	It will be easy to use and it will be quick to make a request.
NFR-2	Security	The users/donor details are stored in the cloud and it is encrypted with the user email id and password
NFR-3	Reliability	The system has the ability to work all the times without failure apart from network failure. The contact list of the donor are provided
NFR-4	Performance	The plasma donor application works well in every emergency situation. The easy interactive with the user and less interrupts
NFR-5	Availability	The plasma Application is an online web application and its monitor's 24/7.
NFR-6	Scalability	The application can store so much data in the cloud And it will be encrypted.

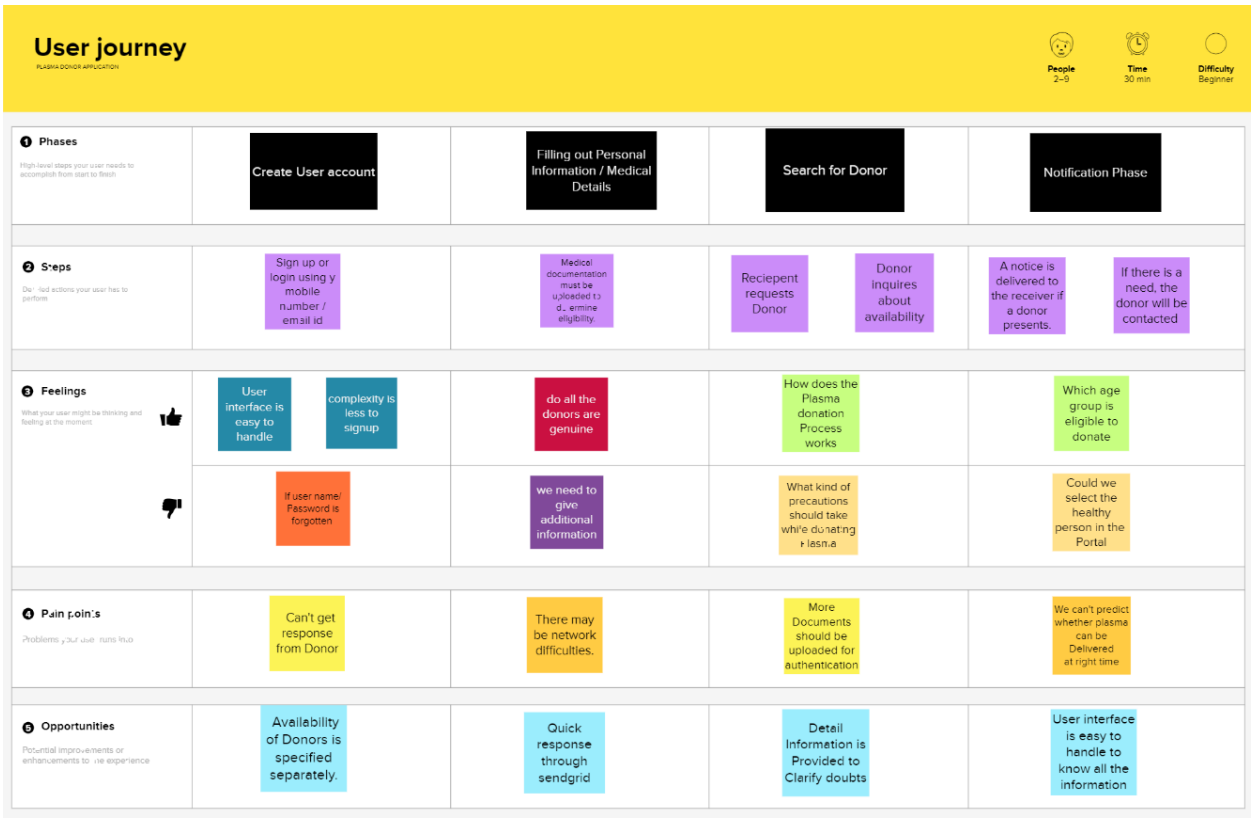
5. PROJECT DESIGN

a. Data Flow Diagrams



b. Solution & Technical Architecture

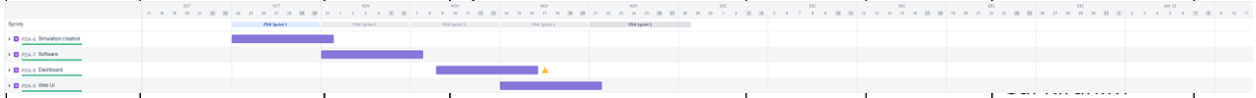




6. PROJECT PLANNING & SCHEDULING

a. Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Simulation creation	USN-1	Connect with python code	2	High	Yaswanth.V.P Kunaal Shaik S.Nadeem Basha Sai Kiran.M
Sprint-2	Software	USN-2	Creating an IBM Watson in Cloud platform	2	High	Yaswanth.V.P Kunaal Shaik S.Nadeem Basha Sai Kiran.M
Sprint-3	MIT App Inventor	USN-3	Develop an Plasma donor application	2	High	Yaswanth.V.P Kunaal Shaik S.Nadeem Basha Sai Kiran.M
Sprint-4	Dashboard	USN-4	Design the Modules and test	2	High	Yaswanth.V.P
Sprint-5	Web UI	USN-5	To make the user to interact with software.	2	High	Yaswanth.V.P Kunaal Shaik S.Nadeem Basha Sai Kiran.M



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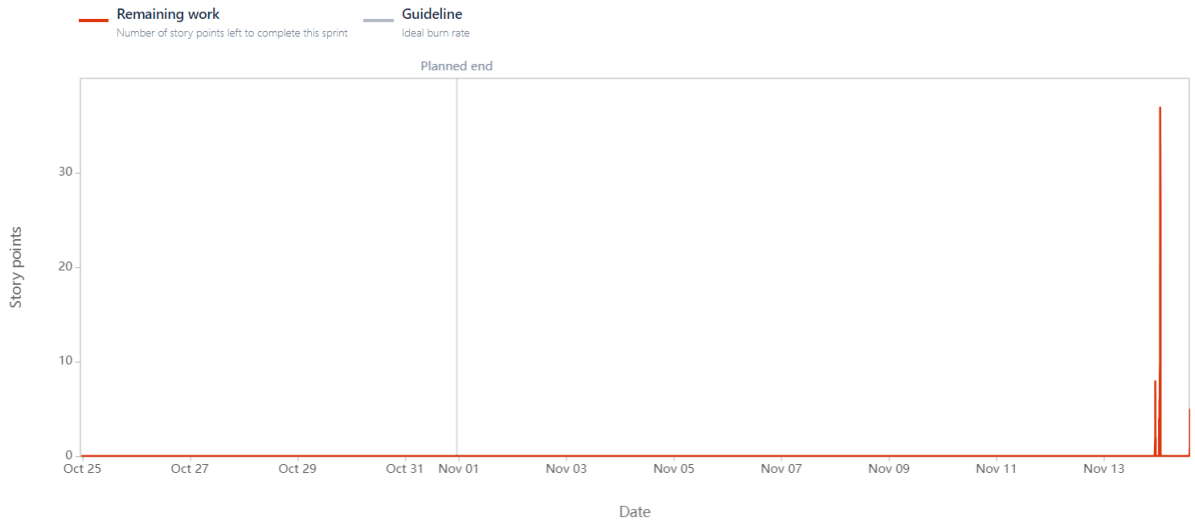
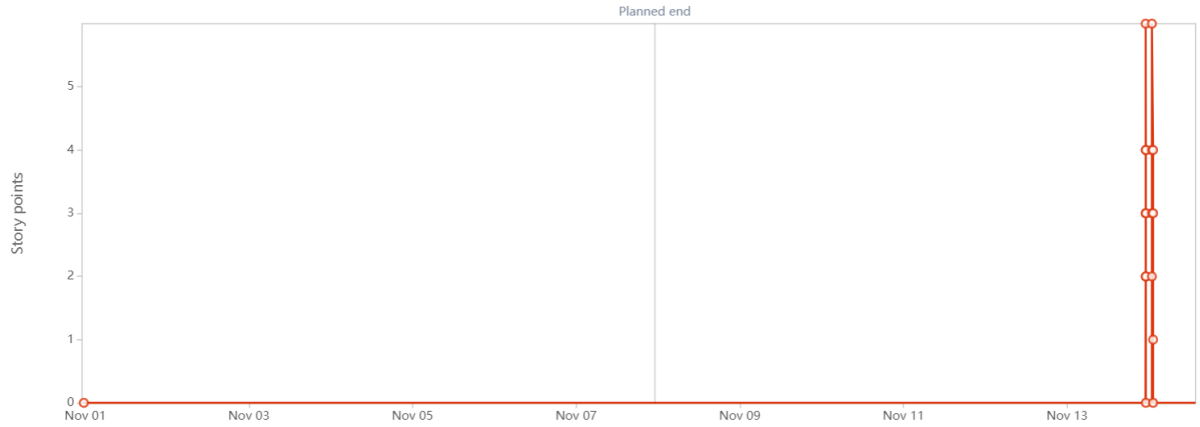
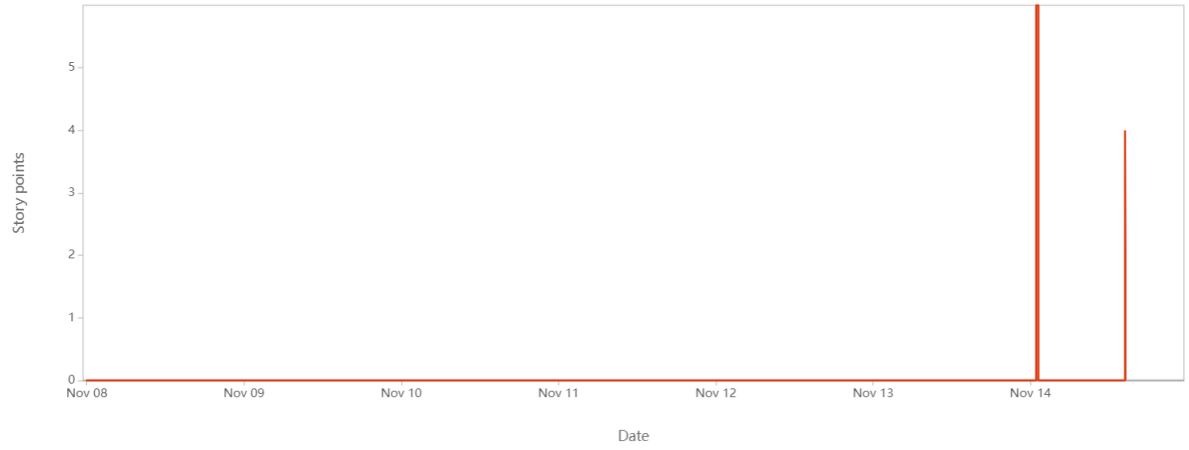


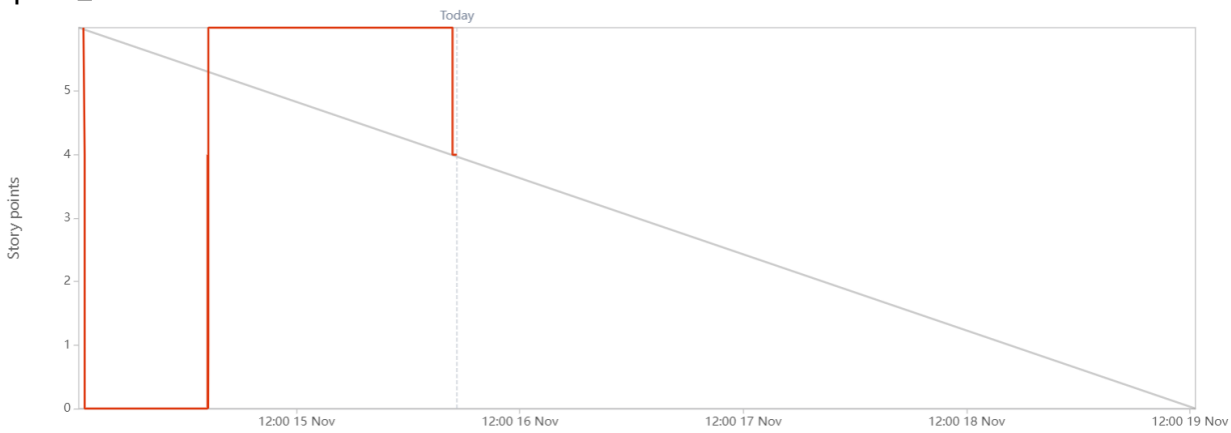
sprint_2:



sprint_3:



sprint_4:



7. CODING & SOLUTIONING (Explain the features added in the project along with code)

a. Feature 1

We were added a good-looking UI and the process of making the signup and login process is easy to be done and easy understandable. Quick response will be given to the user.

b. Feature 2

There is a quick chat bot which will clarify the queries user has just be typing the question we have. It can be used at any time.

TESTING

c. Test Cases

All the test codes are running without any error and there are no bugs and the IBM cloud is storing the data in order.

d. User Acceptance Testing

Our project is also tested by other testers it worked perfectly.

8. RESULTS

a. Performance Metrics

The final result's of the cloud application has successfully done and It is ready to do work but for now it can is just a working model which can be used to demonstrate that how will our project work this model will show exact same thing with small data.

9. ADVANTAGES & DISADVANTAGES

Advantages:

- Our product is useful for quick finding the donor.
- The user can make the process easy and understandable.
- Added to this the chat bot will be so helpful.

Disadvantages:

- If the donor is far from the location and the if donor is not willing to come that far then it might be disappointment.
- Our app can’t show the exact location of the donor.
- Even though it can do anything our app isn’t free.

10. CONCLUSION

The main reason for this application is to make the donation process easy and to make the donors to come forward encouraging them to donate.

11. FUTURE SCOPE

If there is any pandemic occurred in the future this application is useful for the doctors to make a quick call for the donors. As the application is goes older there will be that much data will be going to be added so there will be so much data which makes the process even better.

12. APPENDIX

GitHub link:

https://github.com/IBM-EPBL/IBM-Project-2298-1658469398

Project Demo Link:

https://github.com/IBM-EPBL/IBM-Project-2298-1658469398/tree/main/Project%20demo%20video